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ASU Online

We’re combining technology and learning for a better experience

ASU Online offers more than 200 undergraduate, graduate and certificate programs, 100% online. The online programs are taught by the same award-winning faculty as in-person courses. ASU’s online bachelor's degree programs have been ranked in the Top 10 in the nation by U.S. News and World Report.

Tens of thousands of enrolled students receive the full University experience in the world of online learning, from interacting with professors and peers to celebrating Sun Devil pride. Online students have access to a wide array of success resources, such as personalized coaching, online tutoring and technical support. ASU Online is specifically designed to offer research opportunities and career personnel to anyone, anywhere.
As the academic core of the New American University, The College of Liberal Arts and Sciences fosters educational excellence, intellectual inquiry, discovery and unmatched access through our unique collection of programs in the natural sciences, social sciences and humanities. The college has 90+ undergraduate majors and 140+ graduate degrees housed in 23 interdisciplinary schools and departments.
Undergraduate Programs

Anthropology, BA
Social Sciences: School of Human Evolution and Social Change
Anthropology is the study of humans, past and present. To understand what makes humans unique, and the importance of our differences, anthropology draws on insights from diverse fields, including social and biological sciences and the humanities.

Biochemistry, BA
Natural Sciences: School of Life Sciences
Biochemistry students learn to understand and explain the world from the molecular perspective. Our students are prepared for a wide range of careers in science and health and are positioned to be competitive applicants to many professional health-related graduate programs, including medical, physician assistant, dental, and pharmacy schools. Bachelor’s of Arts in Biochemistry is suitable for those students who are not pursuing research as a career pathway and is appropriate for those pursuing K-12 teaching careers or for those who already have careers in STEM industries.

Biochemistry, BS
Natural Sciences: School of Life Sciences
The online Bachelor of Science in Biochemistry provides students with a course of study in the chemical processes of living organisms. This online program is appropriate preparation for further study of biochemistry or related sciences in graduate school and for medical, dental or pharmacy school.
Biochemistry (Medicinal Chemistry Concentration) BS

*Natural Sciences: School of Life Sciences*

Biochemistry students learn to understand and explain the world from the molecular perspective. Our students are prepared for a wide range of careers in science and health and are positioned to be competitive applicants to many academic and professional health graduate programs, including medical, physician assistant, dental, and pharmacy schools. The Medicinal Chemistry concentration is especially useful for those students who are interested in pursuing drug discovery, research, and development in the future.

Biological Sciences, BS

*Natural Sciences: School of Life Sciences*

The online Bachelor of Science in Biological Sciences degree enables students to delve into the basic organization and processes of life (microbes, plants and animals) at scales ranging from molecules to ecosystems and in time from picoseconds to millennia. The online biological sciences program spans investigations into genetic and environmental causes of diversity, how organisms evolve, the interplay of organisms and their environments, and how these factors influence health and disease.

Communication, BS

*Social Sciences: Hugh Downs School of Human Communication*

The Bachelor of Science in communication program will teach you how communication processes create, maintain, and transform identities, workplaces, and communities. As a BS in communication student, you'll have the opportunity to enroll in some of our communication electives, which are geared toward providing you with conceptual knowledge as well as practical skills to successfully manage communication issues in the context of contemporary workplaces.
Economics, BS - Liberal Arts

*Social Sciences: Department of Economics*

The online Bachelor of Science in Economics offered by The College of Liberal Arts and Sciences provides students the opportunity to complete a set of rigorous courses in microeconomic and macroeconomic theory and applied statistics. Students also select department electives covering topics such as international economics, money and banking, and labor economics. The B.S. in Economics offered by The College of Liberal Arts and Sciences provides the same economics curriculum as the major offered by the W.P. Carey School of Business while allowing students a great deal of flexibility in the selection of elective coursework to satisfy degree requirements.

English, BA

*Humanities: Department of English*

The Bachelor of Arts in English gives you the opportunity to pursue your degree completely online. This degree will prepare you to read and write critically in a variety of print and digital genres and develop strong literacy skills.

Family and Human Development, BS

*Social Sciences: T Denny Sanford School of Social and Family Dynamics*

The Bachelor of Science in family and human development will equip you with specialized knowledge in human development from infancy through the life span as well as the formation, development, and dissolution of families.

Film (Film and Media Studies), BA

*Humanities: Department of English*

The online bachelor’s degree in film and media studies focuses on the critical analysis of film, television, gaming and new media. In film school online, you’ll explore the cultural, social and economic factors influencing the complex film and media landscape.
Geographic Information Science, BS
Social Sciences: School of Geographical Sciences and Urban Planning
The online B.S. in Geographic Information Science is a unique STEM-based social science degree. Students will learn practical skills in GIS software, statistics, and computer programming within the context of real world applications. This online program is ideal for students interested in gaining marketable skills that allow them to address complex environmental and societal issues.

Geography, BA
Social Sciences: School of Geographical Sciences and Urban Planning
The BA in geography at ASU gives you a unique perspective of the modern world, from local to global, through the lens of space and place. This program focuses on human and cultural traditions throughout the world in regions such as Africa, Asia, Europe and Latin America. You will explore topics including population and migration, geographic information science and technology, and urban and regional geography.

Geography, BS
Social Sciences: School of Geographical Sciences and Urban Planning
The BS in Geography program at ASU provides you with a distinctive perspective of the modern world through the lens of its natural elements. This program focuses on the spatial patterns in natural science in features such as landforms, plants, weather and water. You will explore social or environmental science in relation to economic patterns, human populations and transportation.
Global Health, BA  
*Social Sciences: School of Human Evolution and Social Change*

The online Bachelor of Arts degree in global health is an interdisciplinary program designed for those seeking a broad understanding of modern health challenges and their potential solutions. The global nature of this program is incorporated anthropologically - to understand disease, health and well-being in ways that incorporate a variety of cultures, places, and time along with their social, biological, historical, and ecological significance.

Global Studies, BA  
*Social Sciences: School of Politics and Global Studies*

Study global issues at one of the top universities in the nation. The Online Bachelors of Arts (BA) in Global Studies, is designed to link theory with global issues and action through policy. This program examines the causes and consequences of problems that cross national boundaries and the governance of these problems in social, cultural and economic contexts.

History, BA  
*Humanities: School of Philosophical, Historical and Religious Studies*

The Bachelor of Arts in history is an interdisciplinary degree designed to give you an understanding of the development of human society and the political, social, economic, and cultural dynamics that influence today’s complex world.

Justice Studies, BS  
*Social Sciences: School of Social Transformation*

ASU’s Bachelor of Science in Justice Studies online program will enable students to study social justice and learn about the historical, cultural and social forces that shape our society. Students will gain skills needed to create meaning, real-world change through law, policy and social justice. As a student in the Justice Studies, BS program, you will focus on five core areas of study: citizenship, migration and human rights; globalization, sustainability and economic justice; law, policy and social change; media, technology and culture; and social identities and communities.
Philosophy (Morality, Politics, and Law), BA  
*Humanities: School of Philosophical, Historical and Religious Studies*

The bachelor of arts in philosophy with a concentration in morality, politics and law combines the basic analytical approaches of philosophy with an emphasis on the moral questions that arise in political theory and law. Students explore the nature of morality, political theory, legal theory and the interconnections between them. This degree program is of special interest to students planning to pursue postgraduate work in law, policy or politics.

Philosophy, BA  
*Humanities: School of Philosophical, Historical and Religious Studies*

ASU’s online Bachelor of Arts in Philosophy teaches you how to think well, which in turn lays the foundation for personal and professional success. You will also learn how to structure arguments, write precisely and clearly and communicate ideas in an orderly, persuasive, and unambiguous way.

Physics, BA  
*Natural Sciences: Department of Physics*

This online physics degree offers a science-oriented liberal education on a broad range of physical phenomena. You’ll learn the fundamental concepts of matter and energy, which are foundational to most branches of science. In one of the few online physics bachelor’s degree programs in the nation, you’ll gain a solid grounding in the basics of physics, with introductory courses in mechanics, electromagnetism, thermodynamics, wave optics and modern physics. The online degree in undergraduate-level physics mirrors the on-campus program, with the same rigorous instruction in high-quality online courses.
Political Science, BA
Social Sciences: School of Politics and Global Studies
ASU's online BA in Political Science provides you with the skills and knowledge to lead within a democratic system of government and in the rapid globalization of political institutions. You will be trained to link theory with real world problems and ideas, and while learning from renowned faculty, you will benefit from a classic yet contemporary liberal arts education.

Political Science, BS
Social Sciences: School of Politics and Global Studies
Offered through The College of Liberal Arts and Sciences, the online Bachelor of Science in Political Science is the study of how citizens interact with their governments and how governments at all levels formulate policies to serve their citizens. This undergraduate degree focuses on a broad, rigorous curriculum that reflects contemporary geopolitics, economics and events. Courses will prepare you for increasingly sophisticated, interconnected and competitive marketplaces.

Religious Studies (Religion, Culture, and Public Life), BA
Humanities: School of Philosophical, Historical and Religious Studies
The online Bachelor of Arts in Religious Studies concentration in Religion, Culture and Public Life focuses on the study of the world's religious beliefs, traditions, cultures and phenomena across the globe. Students will learn to work with diverse populations, analyze problems from multiple perspectives and find, critically analyze, and to clearly communicate information.

Sociology, BS
Social Sciences: T Denny Sanford School of Social and Family Dynamics
The Bachelor of Science in Sociology offered online through Arizona State University studies social life, social change and the social causes and consequences of human behavior. As part of the School of Social and Family Dynamics, you will be provided with an excellent liberal arts education that enables you to develop strong research, analytical and critical thinking skills.
Spanish, BA
*Humanites: School of International Letters and Culture*
Specialize in Spanish language and culture by earning your bachelor’s degree in Spanish at ASU Online with highly-qualified and specially-trained instructors. The flexible and socioculturally diverse undergraduate degree program emphasizes Spanish language skills and the complex cultural panorama of the many worldwide societies in which Spanish is spoken.

Urban Planning, BSP
*Social Sciences: School of Geographical Sciences and Urban Planning*
The online Bachelor of Science in Urban Planning degree at Arizona State University introduces you to the broader purpose of planning, while focusing on practice and application. The program offers expertise in the analysis and synthesis of the social, physical, economic and political factors that affect urban and regional development.

Women and Gender Studies, BA
*Social Sciences: School of Social Transformation*
ASU’s online Bachelor of Arts in Women and Gender Studies empowers you to challenge the conventions of gender and make a difference through academic research, critical knowledge, and a deep understanding in feminist theory and practice. This comprehensive program is offered entirely online through the School of Social Transformation. You will explore women and gender studies through the lens of culture, economics, history, literature, film, politics and science. The program’s liberal arts emphasis will provide you with strong writing, critical thinking and problem-solving skills.
Graduate Programs

Biomimicry, MS

*Natural Sciences: School of Life Sciences*

The online Master of Science in Biomimicry at ASU is a first of its kind program focusing on an emerging discipline that seeks to apply life’s strategies to human design. Offered in collaboration with Biomimicry 3.8 through The Biomimicry Center at ASU, the MS also complements the Certified Biomimicry Professional program offered by Biomimicry 3.8. Through this degree program, you will learn the methodology and practice of the discipline and how to facilitate its application across a wide-variety of applications. This program is ideal if you are interested in innovative, transdisciplinary learning and the opportunity to work with students from around the globe to advance the field and develop sustainable, real-world applications.

Communication, MA

*Social Sciences: Hugh Downs School of Human Communication*

The Communication (MA) is designed for business and nonprofit professionals who want to improve the leadership, strategic planning, and communication skills that will allow them to advance in their current careers or to succeed in a new one. The degree employs an innovative program design that accesses collaboration among award winning Hugh Downs School of Human Communication faculty. Students will study conflict management, workplace communication, persuasion and social influence, global communication, and training and development at one of the top communication programs in the country, the Hugh Downs School of Human Communication, home to the Center for Strategic Communication.
English, MA

*Humanities: Department of English*

The online Master of Arts in English program at ASU combines courses from across the English discipline to provide you with strong writing, communication and critical thinking skills. In crafting your course of study, you will be able to choose courses that best suit your individual interests and professional goals from areas including literature, writing, linguistics, rhetorics and literacies, English education, film and media and cultural studies. You may also take certain courses that examine the transdisciplinary relationship between English and other areas of study at ASU. Through a series of courses across English disciplines, students learn how to interpret and articulate complex cultural, historical, literary and language-related ideas and synthesize them into accessible material for general audiences.

Family and Human Development, MS

*Social Sciences: T Denny Sanford School of Social and Family Dynamics*

The Master of Science in Family and Human Development is a 30-credit online degree program offered through the T. Denny Sanford School of Social and Family Dynamics at Arizona State University. As a student in this program, you will gain the knowledge and skills to promote healthy individual and family development. You will develop an understanding of the factors that promote successful relationships and positive outcomes for individuals, families, and communities across the life-span. This program is designed for students who want an applied practitioner-oriented approach to develop an advanced understanding of the issues and needs of children, youth, and families in the 21st century.
Film and Media Studies, MAS  
*Humanities: Department of English*

The MAS in Film and Media Studies will equip students with the analytical, creative and communication skills to become critical consumers, creative professionals, and rigorous scholars of film, television, and digital media. The program consists of nine credit hours of core courses, 21 credit hours of electives and a comprehensive exam.

Global Security (Cybersecurity), MA  
*Social Sciences: School of Politics and Global Studies*

The cybersecurity concentration of the online Master of Arts in global security provides students with an interdisciplinary understanding of the complex nature of digital threats and how to address them from a domestic and international perspective, allowing students to learn from expert faculty who are scholars, practitioners and thought leaders. This online cybersecurity concentration is embedded within the MA in Global Security. The program is practical, non-technical and designed to train students from diverse backgrounds prepare for a rapidly changing cyber environment. Students learn to understand complex domestic and global cybersecurity threats, opportunities, risks and policies. The concentration does not require prior cyber experience and develops students' critical thinking through case studies, policy exercises and practice-oriented studies designed to encourage and enable career advancement.
Global Security, MA
Social Sciences: School of Politics and Global Studies
The Master of Arts in Global Security is an interdisciplinary, online program that trains students to critically engage global conflict and international security issues in a comprehensive manner to aid professional advancement in military, government and private sector careers. Our world faces a variety of diverse, complex, and constantly shifting security challenges. Understanding and responding to these issues requires an interdisciplinary approach linking critical thinking with practical engagement. The online Master of Arts (MA) in Global Security, offered by The College of Liberal Arts and Sciences, provides an overview of major ideas on the causes and costs of conflict, the structure and operation of domestic and international institutions, and policies to encourage and enable peace and stability.

History, MA
Humanities: School of Philosophical, Historical and Religious Studies
ASU’s online master of arts degree in history offers dynamic content along with valuable skills. The degree deepens your knowledge of history while developing core skills applicable in a variety of settings. Students graduate from the program with an enhanced ability in finding and analyzing information, planning and organizing projects, and writing and speaking effectively. The program covers a range of historical and cultural periods taught by ASU’s award-winning faculty and is ideal for working professionals, K12 teachers, and life-long learners seeking to advance their skill set and knowledge base.
Indigenous Education, MA

*Social Sciences: School of Social Transformation*

The online Indigenous Education MA degree program emphasizes research, theory, and practice related to both education and the process of schooling. This program engages individuals who are interested in or currently working with and in Indigenous communities or schools serving Indigenous children. This program will build critical understanding of contemporary Indigenous education, as well as train students to envision creative possibilities for the future. Because the Center for Indian Education is housed in the School of Social Transformation with faculty that collaborate with colleagues campus-wide, nationally and internationally, students will have access to a wealth of additional resources at the master’s level, allowing them to tailor their program so that it best fits their specific professional aspirations.

Sociology, MA

*Social Sciences: T Denny Sanford School of Social and Family Dynamics*

The Master of Arts in Sociology is a 30-credit online degree program offered through the T. Denny Sanford School of Social and Family Dynamics at Arizona State University. In this program you will obtain knowledge and skills to help individuals and families understand how social context affects their well-being. You will also learn about the factors that influence successful relationships and outcomes. The MA in Sociology degree is ideal if you are seeking an applied practitioner approach to understanding critical 21st-century social issues. You will work with expert faculty who are experienced in teaching high-quality online courses, as well as directing your capstone project. Graduates of this program often enter careers in human, social and government agencies.
Teachers of English to Speakers of Other Languages, MTESOL

Humanities: Department of English

The master’s degree program in Teaching English to Speakers of Other Languages (TESOL) is for individuals who wish to build a career in the international field of English language teaching. Through this program, students will develop scholarly and professional understanding in four main areas that are central to TESOL: language, learning, research methods, and teaching methods.

World War II Studies, MA

Humanities: School of Philosophical, Historical and Religious Studies

Built through a unique partnership between ASU and The National WWII Museum (NWWM) in New Orleans, this fully-online, interdisciplinary World War II Studies graduate degree is the first of its kind in the nation. Through advanced interdisciplinary study of World War II, students explore the global nature of World War II, a conflict that fundamentally reshaped the political and cultural landscape of our planet. Students examine the causes and impact of the war, the evolution of governance and political systems, and human responses to conflict, violence and genocide. Program coursework helps students contextualize current events through study of the war’s historical, political, and cultural legacies. The knowledge and skills students develop in the program are transferable to a variety of contexts, including education, military service, human rights work, public relations, diplomacy, international relations, and law.
Minors & Certificates

Anthropology (minor)
_Social Sciences: School of Human Evolution and Social Change_
The ASU College of Liberal Arts and Sciences offers an undergraduate minor in anthropology. Anthropology draws on the social/biological sciences and the humanities to study humans in the past and present in order to understand what makes us unique. The minor and B.I.S. concentration is designed to broaden and enhance students' primary degree and prepare them for their future careers in a diverse workforce by giving them a basic background in the field of anthropology as well as help them further develop strong critical thinking, oral and written expression skills.

Addiction and Substance Use Related Disorders (Graduate Certificate)
_Natural Sciences: Department of Psychology_
The online graduate certificate in Addiction and Substance-Use Related Disorders will improve the transfer of scientific knowledge to clinical practice, increase competence to address the opioid crisis and marijuana legalization, develop expertise to work with special populations and individuals with co-occurring disorders, and expand the use of evidence-based treatments, resulting in an increase in the effectiveness of substance abuse treatment. This graduate certificate can serve the needs of aspiring professionals (individuals with a Bachelor's degree or currently in a Master's or Doctoral program in a behavioral health field), or current behavioral health professionals with a Master's or Doctoral degree who want additional education in addictions and substance use disorders to help them address their clients' needs.
Applied Prevention Science (Graduate Certificate)

*Natural Sciences: Department of Psychology*

Applied Prevention Science promotes the use of psychological interventions that work to improve the lives of children and families. ASU’s graduate certificate in applied prevention science is for those with a bachelor’s degree or equivalent who seek employment or are employed as a mental health professional, particularly those who are interested in leadership roles.

Biomimicry (Graduate Certificate)

*Natural Sciences: School of Life Sciences*

Biomimicry is an emerging discipline that seeks to emulate life’s strategies for human design with a particular emphasis on sustainability. This Certificate in Biomimicry, delivered completely online, is designed to enable you to integrate biomimicry principles and tools into your current or planned profession, and serve as a leader in the emerging network of biomimicry researchers and practitioners.

Communication (minor)

*Social Sciences: Hugh Downs School of Human Communication*

The online minor in communication focuses on teaching students how communication processes create, maintain and transform identities, relationships, workplaces, and communities. Our courses prepare you for success in a variety of career fields or graduate study.

English (minor)

*Humanities: Department of English*

A minor in English will provide students with preparation for any profession requiring strong analytical and communication skills, including careers in: publishing, journalism, public relations, nonprofit organizations, professional and technical writing, education, business, banking, grassroots activism, law, medicine, as well as numerous others throughout industry and government. Employers in all fields are always looking for workers with strong writing and communication skills combined with an ability to think critically.
Family and Human Development (minor)
*Social Sciences: T Denny Sanford School of Social and Family Dynamics*

A minor in family and human development, from the School of Social and Family Dynamics, exposes students to the basic course work and issues within the discipline. This program provides an exceptional balance to studies in psychology, communication, education, business or nursing. Students will develop excellent preparation for future work in counseling, family and developmental sciences, law, medicine and social work.

Film and Media Studies (minor)
*Humanities: Department of English*

The film and media studies minor is useful for students who want to explore the critical and creative study of film and media from the College of Liberal Arts and Sciences. Students can select to study a range of courses that emphasize media and society, media industries, styles and genres and screenwriting. This minor is an innovative program in the study of film, television, computer games, the Internet and screenwriting.

Geography (minor)
*Social Sciences: School of Geographical Sciences and Urban Planning*

Whether you are interested in the world around us or the people who call it home, earning a minor in Geography allows students to explore both the social and the environmental aspects of our world. Students earning a minor in Geography have the ability to specialize their focus on either physical or cultural geography, depending on which best suits their degree and interests. Physical geography focuses on landforms, weather and natural resources. Students specializing in physical geography can gain a deeper understanding of changes to the global environment, natural resource management theories, as well as weather forecasting and analysis. Cultural geography allows students to focus on specific areas of the world to gain insights on their physical, economic and cultural differences for each region. Students can also learn more about world crises and global economies, among other topics.
Geographic Information Science (Undergraduate Certificate)

*Social Sciences: School of Geographical Sciences and Urban Planning*

Take your interest in the world around you to the next level with a certificate in Geographic Information Science. This GIS certificate will provide you with the skills to utilize geospatial technologies to create visual representations of spatial and geographic information. It is complementary to a variety of degrees including geography, urban planning, life sciences, anthropology and others.

Global Health (minor)

*Social Sciences: School of Human Evolution and Social Change*

The minor and B.I.S. concentration in global health provides students in other majors with a general background in the global health field in order to enhance their degree. The College of Liberal Arts and Sciences designed the global health minor for students who seek a broad and flexible set of skills for understanding contemporary health challenges and thinking about how they might best be solved. Global is understood in the anthropological sense, meaning ways of understanding and addressing disease, health and well-being that can incorporate all cultures, places and time and that can integrate knowledge of health’s social, historical, biological and ecological dimensions.

Global Studies (minor)

*Social Sciences: School of Politics and Global Studies*

The global studies minor complements students’ major field of study with the coverage of global issues such as human rights, the environment and governance, and economic policies. The minor program offers students insights into the causes and consequences of social, cultural and economic problems within the context of globalization.
**History (minor)**
*Humanities: School of Philosophical, Historical and Religious Studies*

History is a discipline that constantly adopts new techniques of analysis and new ways of gathering and presenting information. Students of history learn to use and create digital media, to perform quantitative as well as qualitative analysis, and to present their findings in compelling ways to all kinds of audiences. Students who pursue the minor in history study the growth and development of human society from all aspects of political, social, economic and cultural.

**Justice Studies (minor)**
*Social Sciences: School of Social Transformation*

The minor in justice studies from the College of Liberal Arts and Sciences is designed for students interested in developing an understanding of meanings of justice and injustice and analyzing controversial issues. In addition to the two required courses, which provide a solid understanding of the field, students will be able to select electives to meet their specific interests. Students emerge from this minor with skills designed to bring social justice concerns to their professional careers.

**Mathematical Concepts of Engineering (Undergraduate Certificate)**

Earn a strong foundation in engineering mathematics with the online Mathematical Concepts of Engineering Undergraduate Certificate, a program which complements any engineering field of study. This certificate can prepare you for the application of mathematics in the engineering industry or engineering graduate program.
Founded in 2012, the College of Health Solutions at Arizona State University is the only health college of its kind — which is what you would expect from the most innovative university in the nation. Our faculty and students translate health research and discovery into practice to improve health outcomes. We bring people together to improve the health of the communities we serve, reaching them where they live, learn, work and play throughout the lifespan.
Undergraduate Programs

Applied Science (Health Sciences), BAS
The BAS program is designed specifically for students who have earned a health related AAS degree from a regionally accredited institution. It provides students an opportunity to advance in their fields by completing a bachelor’s degree in a shorter amount of time. Students can complete up to 60 credit hours at a community college prior joining the degree program, at which time they are required to complete as few as 60 additional credit hours at ASU to earn the Bachelor of Applied Science. This is beneficial to students whose AAS credits are non-transferable to a traditional bachelor’s degree program, and degrees can be customized based on student area of interest, including health and aging, health legislation, integrative care, Spanish and health, and community-based health outcomes.

Health Education & Health Promotion, BS
The B.S. in Health Education and Health Promotion, offered through the College of Health Solutions, is designed for students interested in preparing to become a Certified Health Education Specialist (CHES). The CHES® designation signifies that an individual has met required academic preparation qualifications and has successfully passed the competency-based examination. Students will gain foundational knowledge in health promotion program planning, implementation, and evaluation, as well as CHES competencies and learn about specific health education strategies for effectively delivering community and school health education interventions.
Health Sciences (Healthy Lifestyles Coaching), BS
The healthy lifestyles coaching focus combines exercise and wellness, nutrition, and health sciences to provide you with a solid background in preventative health care. As a student pursuing this major, you will take classes in fitness, nutrition, healthy eating, stress management, cultural aspects of health and research-based practices in coaching. You will interact with faculty and professionals who have devoted their lives to teaching and promoting positive lifestyles. This program also emphasizes community integration through nonprofit and for-profit organizations, which provide opportunities for internships.

International Public Health, BIPH
Gain invaluable experience and insight into global health issues with the online Bachelor of International Public Health (BIPH) degree program, which leverages international expertise of three leading universities, ASU, UNSW Sydney and King’s College London. This tri-university global health program is essential to prepare for a career in international public health.

Nutrition, BS
Arizona State University’s online bachelor of science in nutrition prepares students for careers in food production, service management, marketing and journalism around health and wellness topics. Growing public demand for health information has created a need for communicators and marketers with a thorough understanding of health and nutrition issues. A Bachelor of Science degree in nutrition provides students with the ability to apply nutrition principles in a variety of settings.

Speech and Hearing Science, BS
The online Bachelor of Science in Speech and Hearing Science prepares students to pursue graduate study in speech-language pathology or audiology. Students will focus on normal speech, language, and hearing processes across the lifespan, with an increased focus on communication disorders in upper-division coursework.
Graduate Programs

Behavioral Health (Clinical), DBH
Prepare for a successful career in the modern health care industry with a Doctor of Behavioral Health degree from the College of Health Solutions. The DBH degree program with a clinical concentration is designed to support master’s-level clinicians by offering advanced learning opportunities in behavioral interventions, medical literacy and entrepreneurship. The clinical doctorate in behavioral health program can provide clinicians with the training and insight needed to pursue advanced careers in today’s integrated primary care environments. This clinical concentration features specialized coursework that focuses on teaching evidence-based behavioral interventions, along with a 400-hour internship for students who are licensed (or license eligible) as behavioral, medical or allied health professionals.

Behavioral Health (Management), DBH
The Doctor of Behavioral Health program offered through the College of Health Solutions is designed to prepare future health care managers for the rapidly changing medical care marketplace. Specializing with a doctorate in behavioral health management can help you advance your career in health care administration and tackle some of the most challenging issues in modern medicine. A Doctor of Behavioral Health from Arizona State University explores current issues in management and behavioral care in integrated primary care environments. The DBH degree’s management concentration can help you develop the tools, training and experience to pursue leadership roles in health care administration and keep pace with new trends in behavioral intervention.
**Biomedical Diagnostics, MS**

The Master of Science in biomedical diagnostics is designed to help you understand the vital role diagnostics plays in every facet of the health care system. Our students and faculty are committed to improving the quality of life for people around the world and stimulating economic growth through advanced research and education. Graduates with a master’s in biomedical diagnostics can help biomedical companies to transform health care and medical services, or take on management roles in the field.

**Health Informatics, MAS**

Combine information technology, computer science and knowledge management competencies with the Master of Advanced Studies in health informatics program, offered through the College of Health Solutions. This degree equips professionals from inside and outside the health industry with a foundation in clinical informatics. Students also utilize electives to develop a more specific focus, such as clinical workflows or modern health technology.

Graduates of the master’s in health informatics online program develop methodologies for disease prevention, treatment, patient care and knowledge access in a variety of health care contexts. Degree holders may work with clinicians, biomedical and computational scientists, knowledge management professionals, educators and health care consumers.

**International Health Management, MIHM**

The Master of International Health Management degree offers you an inside look at some of the most pressing global health challenges of the modern era, along with the knowledge and experience you need to make a meaningful impact on health care practices around the world. International health management combines global health industry knowledge with financial, business, policy and management skills to lead and develop a health care institution. The Master of International Health Management is a professional degree that provides specialized coursework on a range of key topics in global health management, health care finance and economics, patient safety and more.
Medical Nutrition, MS
The Master of Science in medical nutrition provides medical professionals, students and professional school applicants a pathway to build their knowledge and expertise in the nutritional sciences. With this master’s in nutrition, you can better understand how nutrition and health care intersect. Students in the Master of Science in medical nutrition program learn techniques to assess and prescribe nutrition practices to maintain health and to care for and prevent diseases. In this online nutrition degree, gain a strong understanding of how to leverage testing strategies and big data to research new nutrition techniques to use in clinical practices. The master’s in nutrition is ideal if you seek a career in medical, veterinary or dental, or osteopathic health.

Nutritional Science (Dietetics), MS
The Master of Science in nutritional science (dietetics) program is designed for registered dietitians seeking an advanced dietetics degree. This curriculum emphasizes the scientific foundations of nutrition and reinforces abilities such as project management, interpreting research and critical inquiry.

Science of Health Care Delivery, MS
The College of Health Solutions prepares current and future administrative and clinical health care professionals to address the complex needs of the health care system. Through the interdisciplinary study of population health, patient-centered care, health economics, policy, data analytics and leadership, students gain the skills necessary to achieve value-based health care.
Minors & Certificates

Integrated Behavioral Health - Clinical (Graduate Certificate)
The online graduate certificate in Integrated Behavioral Health - Clinical is intended to provide master's level behavioral clinicians with skills necessary to successfully transition into the integrated primary care environment.

Integrated Behavioral Health - Management (Graduate Certificate)
Students of the online Integrated Behavioral Health - Management Graduate Certificate will receive training on effective management of integrated care systems. Explore new skills from mental health treatment, enhanced behavior change coaching, strategic planning on health outcome improvements and overall quality of care.

Personal Health (minor)
The College of Health Solutions offers a minor in personal health that allows students with academic interests that lie outside the realm of medical and health sciences to explore and learn the latest information related to healthy lifestyles, including the attainment and retention of a high quality of personal health. Students will gain the knowledge and skills necessary to optimize their personal health and assume increased responsibility for their own personal health and well-being.

Science of Health Care Delivery (Graduate Certificate)
The graduate certificate in the College of Health Solutions at ASU Online prepares the future and current workforce with the fundamental knowledge and skills to lead change in all levels of the healthcare system. The College of Health Solutions curriculum aligns with the Triple Aim: Improve patient outcomes, improve population health, and lower health care costs.
Philosophy (minor)

*Humanities: School of Philosophical, Historical and Religious Studies*

Philosophy teaches students how to think well, which in turn lays the foundation for personal and professional success. Many philosophical texts are complicated, and philosophy courses teach students how to read, comprehend and summarize conceptually difficult material. In short, studying philosophy trains one to be a better, clearer thinker. The minor in philosophy provides students with an understanding of philosophical inquiry and method. The minor offers an introduction to central themes both in the history of philosophy and in the current literature.

Political Science (minor)

*Social Sciences: School of Politics and Global Studies*

The minor in political science from the College of Liberal Arts and Sciences offers students exposure to skills and knowledge that help them participate effectively as citizens in a democratic political system and flourish in the rapidly developing globalization of the world's political institutions, cultures and economies. The minor aims to provide students with an introduction to the tools and skills necessary to make connections linking theory with real-world problems and issues.

Psychology (minor)

The minor in psychology, offered by the School of Social and Behavioral Sciences, focuses on appreciating and understanding the human condition from a scientific, psychological point of view. Students completing the minor in psychology should possess breadth of knowledge pertaining to the major principles, theoretical approaches and findings in psychology. Students should also understand and be able to use basic research and quantitative methods in psychology and be able to gather and synthesize psychological findings.
Religious Studies (minor)

*Humanities: School of Philosophical, Historical and Religious Studies*

Religion is a fundamental part of the human experience. It informs and shapes politics, literature, philosophy, art and science as well as the daily life of millions around the globe. An understanding of religious traditions is critical to understanding our shared past and present and navigating toward our shared future. Students who pursue the minor in religious studies from the College of Liberal Arts and Sciences, engage in a comparative, cross-cultural exploration of religions and cultures that complements a variety of undergraduate majors while promoting a deeper understanding of human nature and interaction. Students may pursue the minor in religious studies with regional, national, hemispheric, global and a variety of thematic emphases.

Sociology (minor)

Sociology is the study of social life, social change and the social causes and consequences of human behavior. A minor in sociology from the School of Social and Family Dynamics exposes students to the basic course work and issues within the discipline. This program provides an exceptional balance to studies in psychology, communication, education, business and nursing. Students who pursue the minor in sociology will receive excellent preparation for future work in law, medicine and counseling, social work, sociological research, business, government and social service.
Urban Planning (minor)

*Social Sciences: School of Geographical Sciences and Urban Planning*

The way cities are designed has an indelible impact on the people who call cities home. From housing to transportation, urban planning impacts the daily lives of people living in city environments. Students earning a minor in urban planning will be introduced to the theoretical and practical aspects of planning, as well as its relationship with the environment and society. Students can specialize their minor program to include the courses that supplement degree programs to create a deeper understanding of urban environments. Courses include subject matters ranging from international planning to sustainable urbanism.

Women and Gender Studies (minor)

*Social Sciences: School of Social Transformation*

The minor in women and gender studies provides students with an intensive interdisciplinary liberal arts education that enables them to write well, think critically and analyze problems effectively. Students take a variety of courses, including a capstone seminar requiring original research and writing plus an internship that helps them prepare for life after college. Original undergraduate research is encouraged, and some courses involve students studying community problems and formulating policy solutions. Students are offered the opportunity to challenge conventional wisdom about gender and explore new ways of viewing the world through the study of culture, economics, film, history, literature, politics and science.
There are many paths to achieving a university education, and ASU's College of Integrative Sciences and Arts builds degrees and pathways that help make that dream a possibility—whether you are living in the metropolitan Phoenix area, in another region of Arizona, or anywhere in the world!
Undergraduate Programs

Applied Science (Applied Leadership), BAS
The online Bachelor of Applied Science in Applied Leadership degree shares coursework with the BA in organizational leadership but focuses on applied leadership skills rather than theoretical aspects of leadership. It uses transdisciplinary methods that prepare students to become leaders in a variety of organizations while developing students’ skills and knowledge.

Interdisciplinary Studies (Organizational Studies), BA
The BIS in organizational studies is intended for students seeking an interdisciplinary degree and possessing a desire to learn about the dynamics of contemporary organizations. Via the organizational studies curriculum, you will gain valuable knowledge of management styles, communication strategies, technologies, diversity, ethics and politics.

Interdisciplinary Studies, BA
ASU’s online Bachelor of Interdisciplinary Studies offers you the opportunity to design your major around multiple interests and prepares you for careers that cross-disciplinary boundaries. As a BIS student, you will learn about answering questions, solving problems and addressing contemporary social issues from multiple perspectives, all while designing your own educational plans.

Liberal Studies, BA
The Bachelor of Arts in Liberal Studies program offers you the opportunity to study a broad array of disciplines. This online program offered through ASU aims to provide you with the foundation to use knowledge in a manner that will help you become more successful thinkers, decision-makers and leaders. This degree is an idea program for students with a wide range of intellectual interests, or for students with many different transfer credits looking to complete their degree. You will be able to make connections across various fields of your choosing, applying knowledge to real-world problems, and gaining diverse and applicable skills such as problem-solving, research, leadership and teamwork.
**Organizational Leadership (Project Management), BA**
This project management concentration of the online Bachelor of Arts in organizational leadership offers a theory and practice-driven curriculum to prepare students to be excellent project managers and project management leaders.

**Organizational Leadership, BA**
The Bachelor of Arts in organizational leadership will prepare you for leadership positions in a wide range of organizations and career fields. You will develop skills that can be used to help organizations function successfully, including problem solving, effective communication, program assessment, resource management and how to use emerging technologies.

**Technical Communication (User Experience), BS**
The interdisciplinary user experience (UX) concentration of the online Bachelor of Science in technical communication provides technical communication majors with a conceptual understanding and applied skills in gathering user information, analyzing data and communicating research findings to stakeholders. The online UX concentration will complement the Technical Communication major by providing students with an interdisciplinary foundation in communication, research, and design that is essential to the rapidly growing area of UX.

**Technical Communication, BS**
Through Arizona State University’s online Bachelor of Science in Technical Communication, you will learn how to produce, design and manage information, using both traditional and developing technologies. Technical communication is applied workplace communication that makes technical information understandable and available to many audiences. The BS in Technical Communication is the only undergraduate technical communication degree program available in the state of Arizona. The curriculum brings together information, writing, multimedia, and communication technology, and includes courses such as Principles of Visual Communication, Principles of Writing with Technology, Writing for Professional Publication and Proposal Writing.
Graduate Programs

Liberal Studies, MLSt
The online Master of Liberal Studies offers students a multidisciplinary approach to human ideas and values. This ASU program, offered through The College of Integrative Sciences and Arts, is intended for students seeking a graduate degree that explores the integration of the humanities with political, religious, social and scientific questions within their cultural contexts. The Master of Liberal Studies is purposefully designed to move beyond the narrow confines of a single academic discipline. Instead of looking at the world through the limited lens of one discipline, the MLSt closely matches the broader way we learn on a daily basis; it provides us with many different ways to understand the world.

Organizational Leadership, MS
This online organizational leadership master’s degree will help you function in an agile, innovative way for diverse roles. Enhance your career or secure a managerial role with this advanced study of organizational leadership. The online organizational leadership master's degree has a rigorous curriculum of theory and method. You'll take courses in conflict mediation, workplace dynamics, institutional evolution and strategic decision-making. You'll learn how to lead diverse teams, solve critical problems and partake in collaborative governance.

Technical Communication, MS
ASU's master of science in technical communication will provide you with knowledge and skills for the design, production and management of print and digital texts using traditional and developing technologies. The curriculum provides a comprehensive understanding of the professional, ethical, and cultural issues in the field. The combination of theory and practice will help you develop your analytical abilities, technological expertise and skills necessary for success in technical communication careers.
Minors & Certificates

Organizational Leadership (minor)
The minor in organizational leadership from the College of Integrative Sciences and Art uses interdisciplinary methods that prepare students to become leaders in organizations. Students develop skills and knowledge that leaders need to solve problems, communicate effectively, assess programs, manage resources and use emerging technologies in organizations.

Project Management (minor)
The minor in Project Management will offer a theory and practice driven curriculum to prepare you to be excellent project managers and project management leaders. Students completing a minor in project management will demonstrate skills needed to lead successful project management teams including leadership, assessment, creative thinking, communication, problem-solving, teamwork and collaboration.

Technical Communication (Graduate Certificate)
The online Graduate Certificate in Technical Communication is designed to provide students with an introduction to the knowledge and skills to communicate effectively in a 21st century information environment.

Technical Communication (minor)
The minor in technical communication provides students from other degree programs a foundation in workplace-oriented communication skills that will complement many majors, particularly those in engineering and other technical disciplines, and can make students more competitive in their career path. The minor will teach students how to design, write, produce, and manage professional documents, both print and digital; students will also strengthen their technology abilities.
Edson College of Nursing and Health Innovation

The Edson College of Nursing and Health Innovation is distinguished as a model for excellence and inspiration in nursing and interprofessional practice, education, and research to advance knowledge and innovative practice models, and new solutions to optimize the health and well-being of our diverse local, national and global communities.
Undergraduate Programs

Applied Science (Health Entrepreneurship and Innovation), BAS
The BAS program in health entrepreneurship and innovation provides students with a broad background in the principles of innovation, leadership, change theory, collaboration and evidence-based decision-making to prepare graduates to lead and manage the implementation of innovation in the health care arena. This unique program situates students at the intersection of innovation and entrepreneurship in health.

Community Health, BS
The online Bachelor of Science in Community Health at ASU is designed for students who want to create healthy, sustainable communities with an emphasis on working with specific populations. You will learn about working in partnership with private and public organizations to address the health needs of diverse populations by providing advocacy, building capacity for community services, service coordination, education, monitoring, evaluation and interventions within a community setting.

Health Care Compliance and Regulation, BS
Oversee health care industry compliance with rules, regulations and policies by earning your bachelor of science degree in health care compliance and regulations. Compliance professionals have the opportunity to work in hospitals, medical centers, physician offices, insurance companies and other health and health care related agencies. Health care compliance ensures patients and the public have a better quality of care in medical, insurance and health-related companies and organizations. Compliance officers ensure the industry operates within federal and state standards and regulations in order to have a more effective and safe environment for patients and employees.
Health Care Coordination, BS
The online Bachelor of Science in Health Care Coordination prepares students to effectively coordinate resources to optimize individual health outcomes. Changes in the health care system place greater emphasis and financial incentives on preventing disease and maintaining healthy lifestyles. This has increased demand for care coordination services to assist individuals and their support teams. Through this degree program, you will have a thorough understanding of health care systems, community and public health, community resources, health education, and health advocacy. You will be prepared to collaborate with individuals, families and integrated multidisciplinary care teams to meet complex health needs while navigating current and future trends in public policy that affect the delivery of health care.

Health Entrepreneurship and Innovation, BS
The bachelor of science in health entrepreneurship and innovation program prepares students to lead and navigate inevitable changes in health care related to technology, policy, communication and leadership. This program provides students with a broad background in the principles of innovation, leadership, change theory, collaboration and evidence-based decision-making to prepare graduates to lead and manage the implementation of innovation in the health care arena.

Integrative Health, BS
The online Bachelor of Science in Integrative Health at ASU provides a foundation in integrative health, a holistic approach to wellness that focuses on the mind, body, and spirit. The program is based on research and evidence-based subject matter, as well as ethical, legal, and cultural foundations of integrative health care.

Nursing, RN to BSN
ASU’s RN to BSN program prepares you as a nursing professional for the multi-faceted demands of the changing health care landscape through an innovative, online curriculum. As an older adult population grows, the complexity and need for evidence-based care delivered by RNs will only increase. ASU is committed to meeting this demand by offering an online option for earning your Bachelor of Science in Nursing (BSN).
Graduate Programs

Clinical Research Management (Regulatory Science), MS
With the role of clinical research managers expanding, ASU’s online MS in clinical research management, regulatory science specialty, takes a transdisciplinary approach in providing an education strong in commercial and fiscal practices of conducting clinical research, ethical and regulatory aspects of research, and management of clinical drug, biological, and medical device trials. Regulatory sciences address the safety and efficacy of health and pharmaceutical products in the pursuit of new medical products and treatments.

Clinical Research Management, MS
ASU’s Master of Science in clinical research management advances your nursing and health care career, providing skills for a career in the diverse and complex field of clinical research management. Clinical research management is a growing field of qualified professionals who direct and conduct clinical trials for new medical products. The ASU Online master of Science degree in clinical research management prepares students for careers in clinical research organizations, research sites, regulatory agencies, academic research centers, medical center research programs.

Healthcare Innovation, MHI
Become a leader in health care. You can develop health care leadership skills and create ways to alleviate current health care challenges in the Master of Healthcare Innovation (MHI) offered through the Edson College of Nursing and Health Innovation. This healthcare management degree helps you take on important roles in a rapidly changing industry. In this program, you will take a multidisciplinary approach to health care, including studying change theory, leadership, entrepreneurship, technology and system design. The online healthcare innovation master’s degree is ideal for students who seek to lead in health management.
**Regulatory Science, MS**
The Master of Science in Regulatory Science prepares students to assess products that are typically overseen by various corporations and agencies, including the Food and Drug Administration (FDA). Students learn the various methods and standards of approaching safety, quality and performance of products. The MS program in regulatory science is designed for students interested in protecting public health by controlling the distribution of products such as pharmaceuticals, medical devices, as well as agrochemicals. In particular, the ASU Regulatory Science program focuses on drugs and devices, preparing students for careers in the pharmaceutical, medical research and medical device industries.

**Minors & Certificates**

**Clinical Research Management (Graduate Certificate)**
The graduate certificate in Clinical Research Management addresses the needs of health care professionals who want to work in the diversified and complex clinical research industry. This flexible 15-credit online program is designed for nurses, physicians and other professionals within the field of health care.

**Health Care Innovation (Graduate Certificate)**
The online healthcare innovation graduate certificate at Arizona State University will provide you with the cognitive and affective competencies to create and sustain transformative change in health care.
The Herberger Institute for Design and the Arts is the largest comprehensive design and arts school in the nation. With 5,000+ students, nearly 400 faculty members, 130 program options and a tradition of top-ranked programs, we are committed to redefining the 21st-century design and arts school. Herberger is built on a combination of disciplines unlike any other program in the nation, comprising schools of art; arts, media and engineering; design; film, dance and theatre; and music; and the ASU Art Museum.
Undergraduate Programs

Art (Art History), BA

School of Art
The Bachelor of Arts in art history through ASU’s Herberger Institute for Design and the Arts is one of few online art history programs offered nationwide. The ASU Online Art History BA is a comprehensive degree designed to engage you with visuality in a variety of ways. The program provides a high-quality art history education and will prepare you for a life-long career.

Art (Digital Photography), BFA

School of Art
The Bachelor of Fine Arts in Art in Digital Photography at ASU is the first online program from a research 1 university or fine art college in the nation to offer a studio practice-based degree. Working with a faculty of professional artists, students have the opportunity to master technical, aesthetic and conceptual aspects of digital photography.

Art (Museum Studies), B.A.

School of Art
The BA in Art with a concentration in museum studies undergraduate program at ASU is one of the most rigorous in the U.S. Through coursework and internships, students of museum studies explore art and museums, historical societies, archives, art galleries, public art programs, arts publishing and arts agencies. The program ensures that students are knowledgeable in art history and visual thinking as well as in museum practice.
Minors & Certificates

Art History (minor)
School of Art
The art history minor, offered by ASU’s Herberger Institute for Design and the Arts, is designed for those students who are interested in a broad introduction to the study of the history of art. In giving a broad chronological exposure to the history of art from diverse cultures, the minor strengthens academic preparation and provides students with many options to select courses based on their individual interests.

Music Minor (minor)
School of Art
The music minor is designed for students who are interested in a broad introduction to the study of music. The program allows for a diverse exposure to traditional through contemporary music practices, with numerous course options based on students’ interests. Students gain knowledge of the history of multiple genres of music, music fundamentals, and music software.
The Ira A. Fulton Schools of Engineering at Arizona State University is the largest and most comprehensive engineering program in the United States with more than 23,900 students. Our students represent 135 countries, all 50 states, Washington, D.C., Guam, Puerto Rico and the U.S. Virgin Islands. The Fulton Schools emphasize discovery, design, innovation, entrepreneurship and societal impact.
Undergraduate Programs

Applied Science (Graphic Information Technology) BAS
The Polytechnic School
The graphic information technology program lives at the intersections of creativity, visual design and technology, preparing students to create visual content for multi-channel distribution – print, web, photo, video, animation. The GIT focus areas available to online students include front-end web development, digital design, print & publishing and also 2D/3D animation.

Applied Science (Internet and Web Development), BAS
ASU’s Bachelor of Applied Science in Internet and Web Development focuses on the development of web sites, including user experience design, usability, multimedia design, emerging Web technologies, and cross-media and cross-platform graphic applications. While the degree is entirely online, you will work with an adviser throughout your degree program to plan and schedule classes.

Applied Science (Operations Management), BAS
The Polytechnic School
The Bachelor of Applied Sciences with a concentration in operations management technology, offered online through ASU’s Ira A. Fulton Schools of Engineering, will provide you with the tools needed for success as a manager, including organization, motivation and hiring skills, as well as resource development.

Electrical Engineering (Electric Power and Energy Systems), BSE
School of Electrical, Computer and Energy Engineering
The concentration in electric power and energy systems of the online Bachelor of Science in electrical engineering prepares students for careers in electric power industries, including power generation, transmission and utilization. Generation includes conventional power generation (fossil fuel and nuclear) and alternative energy systems, including solar, wind and fuel cells.
Electrical Engineering, BSE  
*School of Electrical, Computer and Energy Engineering*  
From nanoscale electronic devices to the U.S. electric power grid, the Electrical Engineering degree program at ASU will prepare you for a career in areas including energy production and distribution, information processing and management, healthcare technology and delivery, global sustainable development, economic growth and security, and communications and data networking.

Engineering Management, BSE  
*School of Computing, Informatics, and Decision Systems Engineering*  
The Bachelor of Science in Engineering (BSE) program in engineering management is designed to provide you with the skills for effective management and leadership of engineering-driven enterprises. This ABET accredited program is ideal for students interested in engineering and business, including working professionals who would like to pursue an undergraduate engineering degree.

Graphic Information Technology, BS  
*The Polytechnic School*  
The online Bachelor of Science in graphic information technology provides students with a creative, technological, and managerial understanding of graphic information and content creation. The program lives at the intersections of creativity, visual design and technology, preparing students to create visual content for multi-channel distribution – print, web, photo, video, animation.
Information Technology, BS

The Polytechnic School

The Bachelor of Science in information technology provides you with the expertise to design, select, implement and administer computer-based information solutions. The information technology graduate can design and create effective solutions to today’s knowledge-based problems within a cybersecure environment. Graduates have the ability to: create network architectures within a cybersecure infrastructure, configure and administer complex computer and database systems; evaluate networks using cybersecure tools and techniques; and, design and process interactive information management solutions, including big data applications.

Software Engineering, BS

School of Computing, Informatics, and Decision Systems Engineering

The online bachelor of science in software engineering degree at Arizona State University emphasizes flexibility in the context of project-driven engineering education, blending engineering, computing, project leadership and software construction.

ASU’s bachelor of science in software engineering, offered online through the Ira A. Fulton Schools of Engineering, is a unique project-driven curriculum, establishing a new model for software engineering education. The built around the concepts of engaged learning, discovery-based education and learning-by-doing. As a student in this degree, you will complete projects in every semester of the program, to provide increased professional skills in communication, teamwork, critical thinking and professionalism.
Technological Entrepreneurship and Management, BS
School of Sustainable Engineering and the Built Environment
The Bachelor of Science in technological entrepreneurship and management, offered online at Arizona State University, delivers a foundation in technology-based innovation with an emphasis on leadership, entrepreneurship and management fundamentals, as well as a special focus on project leadership and process innovation and development. The degree bridges the gap between technology and business for students who want to launch their own technology-based ventures, profit or non-profit, or prepare for a career in product/service design and development or technology management.

Graduate Programs

Computer Science (Cybersecurity), MCS
School of Computing, Informatics, and Decision Systems Engineering
The cybersecurity concentration of the online is designed to provide students the knowledge, skills and the advanced development capability in science and engineering for cybersecurity, including computer and network security, software security, data and information security, applied cryptography and computer forensics. This cybersecurity degree emphasis is designed for graduate students who want to pursue a thorough education in the area of cybersecurity through the lens of computer systems and algorithms. Through security courses, this online degree will provide you the knowledge, skills and the advanced development capability in science and engineering for cybersecurity, including computer and network security, software security, data and information security, applied cryptography and computer forensics.
Computer Science, MCS
School of Computing, Informatics, and Decision Systems Engineering
The Online Master of Computer Science (MCS) program, offered through an innovative partnership between ASU’s School of Computing, Informatics, and Decision Systems Engineering and Coursera, is a rigorous computing degree. You’ll gain a deep understanding of advanced topics like AI, cybersecurity, and big data while strengthening your new skill set through real-world projects. Designed for students seeking to expand their knowledge of computer science or computation, the Master of Computer Science online reflects the dual nature of computer science as both a scientific and engineering discipline by placing emphasis on both theory and practical applications.

Construction Management and Technology, MS
School of Sustainable Engineering and the Built Environment
Arizona State University’s Master of Science in construction management and technology degree is designed to meet the growing need for professionals with advanced technical, management and applied research skills in the construction industry. Offered through the Del E. Webb School of Construction, this Master of Science in Construction Management and Technology online degree program is tailored to build upon the competencies developed from your previous degree program(s) and industry experience, preparing you for upper level leadership roles in the fields of construction and facilities management.
**Electrical Engineering, MSE**  
*School of Electrical, Computer and Energy Engineering*

The MSE in electrical engineering degree offers areas of study in physical electronics and photonics, electronic and mixed-signal circuit design, signal processing and communications and electromagnetic, antennas and microwave circuits. Advancements in electrical engineering are accelerating faster and faster, challenging the visionary engineer to find a place in the intensely competitive world of high technology. At ASU’s Ira A. Fulton Schools of Engineering, faculty and student research teams are working on breakthrough knowledge, setting the pace for the remarkable spectrum of innovation that promises to revolutionize life and work. This professional program will connect you to the challenges of global integration and help prepare you for the many exciting career possibilities the 21st century promises.

**Engineering (Engineering Management), MEng**  
*School of Computing, Informatics, and Decision Systems*

*Engineering*

The Engineering Management (MEng) graduate degree online can help you apply your existing technical skills and practical experience to leading diverse teams, projects and operations in the field of engineering. Your knowledge of engineering is valuable, and with this online Master of Engineering in Engineering Management program you can learn to use your expertise and technical proficiency to solve management-related issues across the field. As a student you will explore core leadership skills in data analytics, task management, team development and other areas critical to promoting project success.
Engineering (Quality, Reliability, and Statistical Engineering), MEng

School of Computing, Informatics, and Decision Systems Engineering
Arizona State University’s Master of Engineering in quality, reliability, and statistical engineering offers specialized courses founded on basic engineering and statistics principles that are central to improving quality, reliability, and achieving meaningful results in today’s modern business organizations. The program is designed to prepare you for a wide spectrum of opportunities in product and service realization, including engineering design, product and process development, manufacturing, distribution, logistics, and supply chain operations.

Engineering (Systems Engineering), MEng

School of Computing, Informatics, and Decision Systems Engineering
The Master of Engineering in systems engineering provides you with the ability to engineer complex products, processes and services, while leveraging a systems engineering approach. Systems engineering focuses on defining needs and customer requirements early in the development cycle. This flexible online “anytime, anyplace” program was designed with input from global corporations and targets professionals leading major complex systems development or programs at their companies.

Engineering Science (Software Engineering), MSE

School of Computing, Informatics, and Decision Systems Engineering
The Master of Science in Engineering with a concentration in Software Engineering offers specialized courses based on the fundamentals and principles of software engineering. The program provides you with the knowledge and skills needed to work as a software engineer or software task leader on both large and small projects using either agile methodologies or formal CMMI approaches. The program addresses major software development methodologies, techniques, tools and processes for both developing and managing software projects. The program is instructed by appointed professors in the Ira
A. Fulton Schools of Engineering - School of Computing, Informatics & Decision Systems Engineering, who actively teach and research in the field of software engineering.

**Graphic Information Technology, MS**  
*The Polytechnic School*

The master’s degree in graphic information technology will complement your skills in visual design technologies with advanced knowledge in administering and managing digital content. You’ll gain an in-depth understanding of creating visual content for multi-channel distribution. Take your expertise in print, web, photography, video and animation to the next level with the Master of Science in graphic information technology. In this master’s degree you’ll explore various areas of graphics and cross-media design while learning how to administer, manage and distribute digital content across multiple channels. You’ll also build on your skills in digital graphics, print technology, multimedia, web design and visualization to prepare for leading roles in the rapidly evolving graphics industry.

**Industrial Engineering, MS**  
*School of Computing, Informatics, and Decision Systems Engineering*

The Master of Science in industrial engineering is among the top 20 programs in the nation as ranked by U.S. News & World Report. We are thrilled to now offer it online. As an online student, you will learn from the same world-class faculty who teach on ground and who consistently receive awards for teaching and research excellence. The overall educational objective of graduate study in industrial engineering is to improve each student’s ability to understand, analyze, and resolve problems within complex organizations. Industrial engineers must develop qualitative and quantitative abilities to assist management in such diverse organizations as banks, government, hospitals, military, and manufacturing operations. It is a dynamic field with many opportunities in nearly every industry.
Information Technology, MS
*The Polytechnic School*

Students who select the online Master of Science in Information Technology obtain advanced technology skills in networking, cybersecurity, and information systems that prepare them for careers in industry, education or government. The online Master of Science in Information Technology program is designed to improve the technical skills of those students wishing to increase their knowledge of today’s cyber system infrastructure. This online program provides more technical depth in areas of networking, information systems, and cybersecurity to better support information technology related disciplines within engineering, education, or government agencies.

Materials Science and Engineering, MS
*(School for Engineering of Matter, Transport and Energy)*

*School for Engineering of Matter, Transport and Energy*

The electronics industry has grown to become a $2 trillion-dollar market, exceeding investments made in other industries such as transportation or steel. The MS in materials science and engineering offers you an opportunity to advance in this fast-growing field and provides an in-depth study of materials science and engineering topics. Students in the online Materials Science and Engineering program benefit from taking courses at the highly-ranked Ira A. Fulton Schools of Engineering. The required coursework covers four subjects: advanced thermodynamics, structure and mechanical properties; kinetics and phase transformations and materials physics. Electives allow students to tailor their program of study to their individual research interests.
Sustainable Engineering, MSE

School of Sustainable Engineering and the Built Environment

The online Master of Science in Engineering (MSE) in Sustainable Engineering is a multidisciplinary graduate program ideal for professionals and graduate level students with engineering and physical science backgrounds who wish to design a flexible, online, individualized plan of study. The goal of sustainable engineering is to enable long-lasting improvement of the human condition. The online masters in sustainable engineering program transcends traditional engineering education by integrating considerations of complex social, environmental, political, and economic factors into engineering theory and practice in order to achieve more economically, technically, environmentally, institutionally and socially efficient and robust solutions. It enables you to create elegant and efficient engineering solutions for your clients and your organizations.

Minors & Certificates

Engineering Management (minor)

School of Computing, Informatics, and Decision Systems

Engineering

The minor in engineering management offered by Ira A. Fulton Schools of Engineering, is designed to provide students with the necessary skills for effective management and leadership of engineering-driven enterprises. The minor curriculum supplements the student’s major by adding to the breadth of engineering science and design, and equips the student with additional management and design skills. This knowledge is augmented with an understanding of business practices, organizational behavior and management skills to enable the graduate to succeed in the management of a scientific or engineering enterprise.
Lean Six Sigma Black Belt (Graduate Certificate)
School of Computing, Informatics, and Decision Systems Engineering
The online Lean Six Sigma Black Belt graduate certificate is aimed at engineers and managers who oversee tactical and strategic projects as well as various operational functions in their organizations. This online certificate program aims to provide students with a set of contemporary tools to produce measurable improvements in business processes.

Nuclear Power Generation (Graduate Certificate)
School of Electrical, Computer, and Energy Engineering
The Nuclear Power Generation (NPG) graduate certificate is a multidisciplinary professional option within ASU’s Ira A. Fulton Schools of Engineering. As a student, you will typically begin with the study of nuclear science and engineering fundamentals. Subsequent courses focus on reactor theory, power plant dynamics, structural materials, and operational safety. Elective courses allow you to tailor the remaining studies toward facilitating your career goals and focusing on studies tied to your discipline.

Technological Entrepreneurship and Management (minor)
The Polytechnic School
A minor in technological entrepreneurship and management is available to students throughout the university who are interested in advancing ideas for new or improved products or services. The online courses available for the minor are designed to advance entrepreneurial and systems thinking, and cover a broad range of topics important to venture startups such as creativity, entrepreneurship, innovation, global impact and systems thinking.
ASU's Mary Lou Fulton Teachers College creates knowledge, mobilizes people and takes action to improve education. As an institution that excels at both educator preparation and world-class scholarly research, we have a role to play in changing systems, structures and cultures of education organizations. MLFTC is aligning its broad array of programs in support of strategic initiatives designed to address four of the most pressing challenges we face in education.
Undergraduate Programs

Educational Studies (Early Childhood Education), BAE
Follow your passion for working with children by earning development and instructional skills with the early childhood education concentration of the online Bachelor of Arts in Education in educational studies from ASU. This program is tailored for individuals working in early-childhood settings such as Head Start, child development centers, preschools and private, public or home-based child care. The early childhood education program does not lead to teacher certification, but it provides a pathway from an associate degree to a BAE.

Educational Studies, BAE
ASU’s online Educational Studies program qualifies graduates for a variety of career paths working to educate individuals in nonprofit or government organizations, private educational or recreational settings, or as entrepreneurs in a variety of learning environments. The ASU Online Bachelor of Arts in Education for educational studies is not a teacher certification program. The online program embraces the view that teaching happens not only in schools but in a variety of contexts that includes the workplace, community institutions, civic organizations or businesses.
Graduate Programs

Leadership and Innovation, EdD
ASU’s Doctor of Education (EdD) in Leadership and Innovation is designed for practicing educator-leaders who work in a range of settings and want to lead change and implement innovation to improve their practice and create better learning opportunities for students of all ages. Students in the program begin as accomplished teachers, teacher leaders, principals, superintendents, higher education professionals, or leaders in other educational contexts working to implement change in their local place of practice. Graduates commit to continued systematic study of their practice and sustained innovation and leadership to make a positive difference over time.

Curriculum and Instruction (Early Childhood Education), MEd
ASU’s Master of Education in curriculum and instruction is offered fully online, pairing flexibility with academic excellence. This master’s program will prepare you to meet the educational, social and emotional needs of children from birth through 8 years old. Through online coursework, applied activities and in-person clinical experiences, the program will equip you with specialized skills and advanced knowledge in early childhood pedagogy, community collaboration, technology, administration, policy analysis and advocacy. The master’s degree is appropriate for students interested in learning about early childhood education research and working with infants and children in grades K-3. This track may be of interest if you already have a teaching certificate and are interested in furthering your knowledge and skills or pursuing doctoral studies in the future.
**Educational Leadership (Principalship), MEd**

ASU's Master of Education in educational leadership, principalship degree is designed for aspiring principals or teachers interested in becoming leaders in their schools and districts. Through this degree program, you will learn to successfully manage the challenges of curriculum development, interpret and use test results, interact with the community, and lead other teachers to achieve school goals. The online principalship concentration is ideal if you are looking to complete the coursework and field experiences required to attain principal certification but take advantage of the college’s internet-based coursework. All options are designed to prepare teachers to meet Arizona requirements for principal or supervision certification.

**English as a Second Language, MA**

ASU's Master of Arts in curriculum and instruction: English as a second language (ESL) prepares you to teach English language learners in a variety of settings, including U.S. schools. This program caters to professionals with a wide range of roles, including both new and experienced teachers, administrators, policymakers and community workers. Through this program, you will gain strategies for developing ESL skills across reading, writing and listening and for involving community and families as partners. You will also leave the program with a historical perspective of English learners in the U.S. and context of past and current policy towards ESL. The program teaches educators specific skills for assessing English learner proficiency and content area knowledge, knowledge of various program models and a stronger foundation in supporting ESL students' language acquisition.
Gifted Education, MEd
ASU’s Master of Education in curriculum and instruction: gifted education prepares teachers, school administrators, school psychologists, behavior analysts, and family members to work effectively with gifted children. You will gain the theory and pedagogy needed to identify and serve gifted children and the knowledge and skills required to develop and provide the most current instructional methods and services. The program is designed for educators, administrators, therapists and family members who fill important roles in the lives of gifted children. Faculty understand gifted students require differentiated instruction and teach how to develop and reach their potential.

Global Education, MEd
This online Master of Education (MEd) in Global Education equips you with the research and analysis skills needed to gather evidence to inform, design and improve practices to strengthen systems that provide quality education for diverse populations in the field of international education. This degree emphasizes international education and the application of social science methodologies and approaches within an innovative, interdisciplinary framework. You will benefit from the convergence of theory and practice through real-world challenges and will tackle these challenges through individual and collaborative projects within and across local and regional contexts.

Learning Design and Technology, MEd
The ASU Master of Education in Learning Design and Technologies prepares individuals to design, develop, and evaluate learning technology environments, systems, applications and instructional materials for a variety of formal and informal educational settings. The Learning Design and Technologies program prepares learning design and technology professionals to design, develop, and evaluate learning structures in a variety of formal and informal educational settings including business and industry. The program emphasizes grounded instructional strategies rooted in established theories of learning, design and development of competency-based instructional materials, and application and evaluation in applied settings.
**Special Education (Applied Behavior Analysis), MA**
ASU Online’s Master of Arts in Special Education with a concentration in Applied Behavior Analysis (ABA) pairs research and experience to prepare students to work professionally with individuals with special learning and behavior needs using the principles of applied behavior analysis. Students will be well prepared to provide evidence-based practices in ABA and consultative services and support to clients, community members and family members across a variety of settings.

**Special Education (Autism Spectrum Disorders), MA**
With this master’s in autism, you will be equipped with specialized skills and knowledge to work effectively and compassionately with children and adults impacted by autism. As a graduate of this autism degree, you will be well prepared to provide services and care for individuals affected by autism spectrum disorders, whether you are an educator, interventionist, psychologist, speech pathologist, behavior analyst or family member.
Minors & Certificates

Advanced Analytics in Higher Education (Graduate Certificate)
The graduate certificate in Advanced Analytics in Higher Education at ASU Online prepares professionals to conduct advanced analytics and assist university personnel in making data-driven decisions for higher and postsecondary education.

An Overview of Autism Spectrum Disorders (Graduate Certificate)
ASU's Graduate Certificate in autism spectrum disorders is ideal for educators, interventionists, psychologists, pathologists, behavior analysts, or family members who want to enhance their preparation for working with children and adults affected with autism spectrum disorders.

Applied Behavioral Analysis (Graduate Certificate)
ASU's online Graduate Certificate in Applied Behavior Analysis pairs research and experience to prepare professionals to work with individuals with special learning and behavior needs. Courses enable students to focus on the population with whom they plan to work, as well as to gain knowledge and skills to use ABA across a variety of settings.

English as a Second Language (Graduate Certificate)
ASU's online graduate certificate in English as a Second Language (ESL) prepares you to teach English language learners in a variety of settings, including U.S. schools.

Gifted Education (Graduate Certificate)
ASU's online graduate certificate in Gifted Education prepares teachers, school administrators, school psychologists, behavior analysts, and family members to work effectively with gifted children.
New College of Interdisciplinary Arts and Sciences

The New College of Interdisciplinary Arts and Sciences at Arizona State University focuses on a personalized learning experience and on the complex and unique ways that different fields of study interact and affect one another to better prepare you for the future. The undergraduate and graduate degrees offered within the New College are designed to provide innovative coursework and hands-on experiences to prepare students for the social, economic, political and cultural challenges they will face in a rapidly expanding, diverse global marketplace.
Undergraduate Programs

Forensic Psychology, BA
School of Social and Behavioral Sciences
Forensic psychology is the application of psychology to the law. The online Bachelor of Arts in Psychology with a concentration in Forensic Psychology combines general training in psychology with specialized coursework in criminal law, criminal behavior, the diagnosis and treatment of mental disorders and legal decision-making.

Forensic Psychology, BS
School of Social and Behavioral Sciences
Crime and mental health is a global issue that is growing rapidly. With ASU’s online Bachelor of Science (BS) in Psychology with a concentration in Forensic Psychology, students will focus on the scientific process between law and psychology.

Interdisciplinary Arts and Performance, BA
School of Humanities, Arts and Cultural Studies
As a student in the online interdisciplinary arts and performance degree, you’ll gain valuable skills for a career as an artist, performer or creative professional. You’ll broaden your worldview of contemporary art-making practices. Your newfound knowledge will inspire you to find new ways of creating unique artworks and performances.
Psychology, BA  
*School of Social and Behavioral Sciences*
The accredited psychology degree from ASU Online equips students with skills in critical thinking, quantitative and qualitative research, and the ability to interact effectively with groups of people from diverse backgrounds. As part of the New College of Interdisciplinary Arts and Sciences, you will be trained to be an independent thinker and active participant in a rapidly changing world. The online Bachelor of Arts in Psychology degree program provides a diverse curriculum of basic and applied courses in various perspectives of the psychology field, including clinical, cognitive systems, behavioral neuroscience, cross-cultural, developmental, organizational, and social psychology, as well as interdisciplinary fields such as health psychology and law psychology.

Psychology, BS  
*School of Social and Behavioral Sciences*
The Bachelor of Science in Psychology equips students with skills in critical thinking, quantitative and qualitative research and the ability to interact effectively with groups of people from diverse backgrounds. This degree has an additional focus on math and science coursework. As part of the New College of Interdisciplinary Arts and Sciences, you will be trained to be an independent thinker and active participant in a rapidly changing world. Courses in the Bachelor of Science in Psychology degree program are presented in the context of cultural, socio-historical and transnational issues, enabling you to understand the relationships among psychology and other social and behavioral sciences.
Graduate Programs

Forensic Psychology, MS
School of Social and Behavioral Sciences
Forensic psychology is the study of how mental health and human behavior intersect with the law and the criminal justice system. This online Master of Science in Forensic Psychology program provides an overview of forensic psychology for students interested in career advancement, additional graduate study, or personal interest. It involves specialized coursework on criminal law, criminal behavior, the diagnosis and treatment of mental disorders, and legal decision making.

Forensic Science, PSM
School of Mathematical and Natural Sciences
This forensic science degree online (PSM) prepares students for career advancement who are already working in the forensic science field. The degree will provide them with a pathway to develop new competencies related to laboratory supervision. This online master’s in forensic science offers you the opportunity to advance your skills in forensic laboratory science with forensic courses in toxicology, botany, entomology, forensic science and government and forensic DNA. Simultaneously, courses in this online program will give you the chance to master forensic science ethics as well as your leadership abilities in the forensic science lab, and utilize all your skills and existing experience in a culminating applied project at the end of the online program.
Psychology, MS
School of Social and Behavioral Sciences
The MS in Psychology program in the New College of Interdisciplinary Arts & Sciences is home to highly productive researchers who publish in top-tier journals and who have received numerous internal and external funding, as well as awards for career achievements. The degree is designed to give students and working professionals an understanding of psychological theory and empirical research findings as they relate to human behavior, cognition, emotion, and attitudes.

Social Justice and Human Rights, MA
School of Social and Behavioral Sciences
The online masters in social justice and human rights addresses urgent issues related to human security, labor, migration, children, family, education and the environment. This social justice degree focuses on three pathways: migration/ asylum seeking, gender-based violence and sex-trafficking, and international law and organizations.
The Sandra Day O’Connor College of Law at Arizona State University is one of the country’s preeminent law schools. Ranked No. 27 nationally by U.S. News & World Report; ASU Law provides comprehensive and personalized legal education through graduate programs with a wide range of courses, popular focus areas, and unique experiences.
Graduate Programs

Legal Studies, MLS (Conflict Resolution)
The Sandra Day O’Connor College of Law at Arizona State University’s Master of Legal Studies with an emphasis in Conflict Resolution is designed to provide professionals the skills and knowledge to effectively navigate conflict in various circumstances and environments.

Legal Studies, MLS (Construction Law)
The Master of Legal Studies in Construction Law, offered online through Arizona State University, introduces students to the basics of Construction Law, including contracts, owner relationships, contractors and subcontractors, site conditions including environmental implications.

Legal Studies (Contract Management), MLS
Gain the knowledge you need to navigate contract drafting and review with the Master of Legal Studies contract management degree at Arizona State University. The contract management emphasis can enhance your career opportunities. It can also improve your understanding of business and government contracts.
Legal Studies, MLS (Corporate & Health Care Compliance)
The online Master of Legal Studies in Corporate and Health Care Compliance, offered through ASU's Sandra Day O'Connor College of Law, prepares students to move up the ladder in their current career or to pursue new and exciting career opportunities. Businesses and companies involving insurance, banking, and health care have to adhere to numerous laws and regulations to stay within compliance of said laws and regulations. To ensure that these businesses and companies are remaining within compliance, they are developing compliance departments that assure the organization is meeting the requirements of the laws and regulations. Compliance departments are tasked with interpreting these laws and regulations that impact the business or company, making policies and procedures that adhere to these standards, and keeping and maintaining reporting mechanisms that track necessary data for the business or company to demonstrate that the function of a compliance department is being taken seriously.

Legal Studies, MLS (Criminal Law)
The online Master of Legal Studies in Criminal Law, offered through ASU's Sandra Day O'Connor College of Law, provides students with valuable expertise regarding how and why the criminal justice system operates the way it does. The study of criminal law equips students to understand the myriad agencies charged with enforcing various laws, the rights of suspected or convicted people, societal goals that may be achieved via the punishments meted out to offenders, and how laws differ from state to state and country to country.
**Legal Studies, MLS (HR & Employment Law)**
The online Master of Legal Studies in HR and Employment Law, offered through ASU's Sandra Day O'Connor College of Law, prepares students to move up the ladder in their current career or to pursue new and exciting career opportunities. Hiring high quality, effective personnel is critical to the success of every organization. Only trained professionals understand the complex legal and regulatory framework that impacts the recruitment, hiring, maintenance, promotion, and firing of employees and independent contractors. The emphasis in HR and Employment Law will allow professionals to identify and solve the critical problems facing organizations on a daily basis.

**Legal Studies, MLS (Intellectual Property Law)**
The online Master of Legal Studies in Intellectual Property Law, provides students with a basic understanding of U.S. law, legal structures, and legal reasoning. Innovation and creativity are the foundation of a knowledge economy. Protecting advancements in these areas to create competitive advantages and foster innovation involves a complex web of protective measures. The focus area in intellectual property will arm students with knowledge of intellectual property protection options, the ability to spot situations where creative advancements are vulnerable to loss, and an understanding of how to create competitive advantages through brand building, barriers to entry and navigating difficult problems.
Legal Studies, MLS (Sports Law)
The online Master of Legal Studies in Sports Law and Business focuses on solving problems arising in the sports industry using legal and business forces. The sport industry is a multi-billion dollar enterprise in the United States and may soon exceed a trillion dollars globally. There will be new opportunities for graduates to tackle the industry’s growing legal, ethical, and business issues. This program blends top faculty with unmatched curriculum that only a top-ranked university in law, business, and athletics can offer. The online program is for industrious students interested in working in the sports, entertainment, and related industries. Graduates are equipped to understand the regulatory, revenue, and branding forces at work in the sports industry, both nationally and globally. That understanding enables graduates to navigate related issues as they arise in the industry.

Legal Studies, MLS (Sustainability Law)
The online Master of Legal Studies in Law and Sustainability is a unique advanced legal degree for non-lawyers. Offered through ASU’s Sandra Day O’Connor College of Law, this program is taught by trained lawyers who are invaluable assets and influential leaders in policy dialogue and implementation locally, nationally, and internationally. Scientific and legal innovations will be instrumental in meeting the needs of a growing global population in the midst of the sustainability movement. The emphasis in Law and Sustainability equips students to employ legal constructs alongside technological tools to accelerate and support sustainable goals through world-class instruction, cutting-edge faculty research, and meaningful experience opportunities. Sustainably using the planet's finite resources to support a growing global population with ever-increasing needs is a challenge that has and will continue to shape the future of environmental law and policy.
School for the Future of Innovation in Society

The School for the Future of Innovation in Society is a transdisciplinary unit at the vanguard of ASU’s commitment to linking innovation to public value. We are pursuing a vision of responsible innovation that anticipates challenges and opportunities, integrates diverse knowledge and perspectives, and engages broad audiences. By examining the ways we translate imagination into innovation — and how we blend technical and social concerns along the way — we learn to build a future for everyone.
Graduate Programs

Global Technology and Development, MS
The Master of Science in global technology & development focuses on international socioeconomic and political change, emphasizing technology and the current processes of globalization. The global technology and development program at ASU addresses the global disparity in wealth and access to resources and basic needs, both between and within countries. In addition, the program seeks to help you better understand the role of technology in creating wealth in nations, as well as its distribution. Issues of culture, history, religion, and social organization are considered mitigating factors in this process.

Global Technology Development (Applied International Development), MS
The applied international development concentration of the online Master of Science in global technology and development allows students to choose an applied area of specialization, including education, business, management, public administration or health. It’s tailored to one’s experience and professional goals in international development, and it’s an applied degree, emphasizing the skills and knowledge needed in the field. The MSGTD Applied International Development program at ASU offers practitioners of international development, both early career and experienced professionals, to construct a set of coursework that fits their needs. The degree offers the development and enhancement of applied skills and attributes in planning, management, analysis and evaluation in development with attention to sector specializations.
Minors & Certificates
Global Development and Innovation (Graduate Certificate)
The online graduate certificate program in global development and innovation helps students translate their imaginations into innovations by mobilizing knowledge in the service of human needs. It provides current and critical perspectives on innovation and development for overseeing and managing complex global challenges.
School of Sustainability

Arizona State University’s School of Sustainability is the first comprehensive degree-granting program of its kind in the United States, with a focus on finding real-world solutions to environmental, economic, and social challenges. Established in 2006, the School is part of the Julie Ann Wrigley Global Institute of Sustainability, which is the hub of ASU’s sustainability initiatives. The School of Sustainability offers undergraduate and graduate programs and minors, as well as doctoral and professional leadership programs.
Undergraduate Programs

Sustainability, BA
The online Bachelor of Arts in sustainability at ASU will provide you with the skills to rethink and reinvent a world at risk and help create an improved quality of life for future generations. The program explores the social and human aspects of sustainability in the context of real-world issues. You will look at ways to solve challenges of sustainability related to the environment, economy and society and gain skills through experiential learning, research, community engagement, study abroad and leadership development.

Sustainability, BS
The online Bachelor of Science in Sustainability at ASU will provide you with the skills to rethink and reinvent a world at risk and learn to create knowledge and solutions that will shape the quality of life for future generations. This program explores the technical as well as social and human aspects of sustainability in the global, regional, and local context of real-world issues. You will look at ways to solve challenges of sustainability related to the environment, economy and society and gain skills through experiential learning, research, community engagement, study abroad and leadership development.
Graduate Programs

Sustainability Leadership, MSL
The Master of Sustainability Leadership (MSL) prepares professionals to advance social and environmental responsibility. The program teaches organizational leadership skills through the lens of sustainability. MSL equips graduates to drive high-impact global sustainability results for their companies, organizations and communities.

Minors & Certificates
Sustainability (minor)
Students in the sustainability minor from the School of Sustainability will learn about the concept of sustainability and how it may be used to develop solutions to pressing issues affecting society, organizations and the world. The minor introduces sustainability principles and explains how sustainability can be applied to all academic disciplines and professional fields. Students will explore the challenges of sustainability within human institutions, organizations, cultures and technology, and in local, national and international contexts. The minor is intended to draw from and inform any major in the university.
Thunderbird School of Global Management

Arizona State University’s Thunderbird School of Global Management prepares you to enter this complex and exciting market with specialized, hands-on training in international management, cross-cultural relations, global political economy and regional business environments.
Undergraduate Programs

Global Management, BGM
Become a global leader with a degree in Global Management from Thunderbird School of Global Management at ASU. This major prepares students to help lead global organizations in this new digital era. With the accelerated pace of technological change globally, the world needs leaders who are agile and able to take advantage of these new tools to build sustainable prosperity worldwide. Thunderbird prepares graduates for this new era of rapid change and opportunity by providing innovative instruction in areas such as globalization 4.0, global digital transformation and global entrepreneurship.

Graduate Programs

Applied Leadership and Management, MALM
The Online Master of Applied Leadership & Management is not just a master’s degree from a top ranked school of global management, it is specially designed to take your career to the next level. Globalize your leadership skills in a flexible online format designed for working professionals and become part of the prestigious Thunderbird Alumni Network. The MALM is designed to explore leadership and management through the lens of high-growth and emerging markets, and delivers the highest quality graduate education in an affordable format. Offered in a hybrid model that blends flexible online learning with an optional in-person capstone experience, the MALM combines Thunderbird’s prestigious tradition of graduate education with cutting-edge technology to deliver a transformative graduate degree.
The Walter Cronkite School of Journalism and Mass Communication is one of the nation’s top journalism schools and is home to Arizona PBS, the largest media outlet operated by a journalism school in the world. With professional programs in digital media, public affairs reporting, broadcast news, digital innovation, public relations, sports reporting, Spanish-language news and more, Cronkite offers a real-world education for the digital media world of today and tomorrow.
Undergraduate Programs

Digital Audiences, BS
The online Bachelor of Science in Digital Audiences gives students the skills they need to use digital and social media to deepen impact in any industry, including strategy development, digital analytics, SEO and SEM campaigns, paid and organic social campaigns, audience research and more.

Mass Communication and Media Studies, BA
The Bachelor of Arts in Mass Communication and Media Studies at Arizona State University’s Walter Cronkite School of Journalism and Mass Communication, one of the nation’s premier journalism schools, explores global mass communication issues from all dimensions: societal, cultural, historical, political, economic, technological and legal. A sophisticated understanding of mass communication is a critical asset for careers in business, government, community and the non-profit sectors.

Graduate Programs

Business Journalism, MS
The Master of Science in Business Journalism at Arizona State University is a 100% online degree program geared toward journalists and communications professionals who want to develop expertise in business and in communicating about business, economics and finance in order to more effectively serve audiences. Students will study data journalism, reporting and storytelling, media law and entrepreneurship at one of the nation’s leading journalism schools, the Walter Cronkite School of Journalism and Mass Communication, home to the Donald W. Reynolds National Center for Business Journalism.

Digital Audience Strategy, MS
The online Master of Science in Digital Audience Strategy prepares students to design and execute large-scale digital audience strategy through a data-driven, multidisciplinary, hands-on curriculum. Students learn to measure and analyze how consumers interact with content online, on social media and on mobile devices.
Minors & Certificates

Digital Audiences (minor)
The Digital Audiences minor equips students to grow, engage and sustain audiences on digital platforms. By exploring the users of websites, social networks and apps, and applying skills such as analytics, social media execution, search engine optimization and search marketing, students will gain a rich understanding of how to acquire and engage audiences. Upon completion of the minor, students will be able to strategically grow digital audiences and harness analytics to drive organizational change.

Digital Audiences (Graduate Certificate)
The online Graduate Certificate in Digital Audiences prepares students to execute digital audience strategy in any industry. Students learn to measure and analyze how consumers interact with content online, on social media and on mobile devices. This program is designed for professionals who want to develop new skills, take on new responsibilities or more effectively promote their work.

Media Analysis (minor)
In the Walter Cronkite School of Journalism and Mass Communication minor of Media Analysis, students will learn to understand the roles that media play, how they are changing and their impact. They will be given the tools they need to critically evaluate, analyze and interpret media messages in order to become wise consumers of media themselves.
Watts College of Public Service & Community Solutions

The Watts College of Public Service & Community Solutions is made up of four schools and more than 20 research centers—all with a shared goal of advancing research and discovery of public value, and furthering the economic, social, cultural and overall health of the communities that we serve.
Undergraduate Programs

Community Advocacy and Social Policy, BA
The Bachelor of Arts in Community Advocacy and Social Policy through the School of Social Work is designed to offer you the opportunity to explore issues of diversity, oppression, and privilege and to examine advocacy and intervention strategies to engage in social change.

Criminology and Criminal Justice, BS
The Bachelor of Science in criminology and criminal justice offers you the chance to explore the impact of crime and effective approaches to reduce it at the local, state, and federal level. As an online student enrolled in the BS in criminology and criminal justice program, you’ll learn about the policies and practices of criminal justice system components, including law enforcement, corrections, and the courts. The program helps develop the research, analytical, and communications skills required for working in complex criminal justice occupations.

Public Service and Public Policy, BS
The online Bachelor of Science in public service and public policy prepares you for careers that transform government, nonprofit organizations, and policy at all levels. Through subjects like public policy, public leadership and management, you will explore the challenges of management and leadership within public organizations and understand the processes associated with policy development.
Public Service and Public Policy (Emergency Management and Homeland Security), BS
Arizona State University’s Bachelor of Science in public service and public policy online degree with a concentration in emergency management and homeland security prepares you to tackle complex issues of both mitigation of and response to natural or man-made disasters.

Tourism and Recreation Management, BS
The online Bachelor of Science in Tourism and Recreation Management program is an integrated degree that includes a core providing the foundation for management of leisure enterprises. The core is enhanced by emphasis areas that direct students toward one of four specializations: tourism, recreation, events or sports.
Graduate Programs

Criminal Justice, MA
The Master of Arts in Criminal Justice (MACJ) provides you with the knowledge and skills to advance your criminal justice career. You will study the larger context of crime, why it exists and its impact on society, as well as gain a detailed understanding of the concept of justice and how it’s applied. The MA Criminal Justice allows you to learn directly from professors who are nationally-recognized scholars in their respective fields and from a prestigious group of criminal justice professionals with expertise in policing, gangs, fraud, corrections and courts. The online criminal justice program offers valuable training in research methods and statistics, program planning and management, policy analysis, and program evaluation. This 33-credit hour program includes a required capstone course, Theory and Practice in Criminal Justice, in which you will write a comprehensive research paper focusing on a criminal justice policy or practice.

Emergency Management and Homeland Security (Biosecurity and Threat Management), MA
The biosecurity and threat management concentration of the online Master of Arts in emergency management and homeland security (EMHS) prepares students to utilize best practices toward protecting living organisms against hazardous biological agents. This program’s graduates will be well-prepared to utilize public policy and best applicable management practices within their professional areas to develop protection, mitigation and preparedness measures to prevent and/or minimize societal impacts of natural and human-made threats and hazards. Likewise, our graduates will be able to employ necessary management and leadership skills in guiding local or national response to and recovery from any potential emergencies, disasters and other related societal threats.
Emergency Management and Homeland Security (Community Resilience), MA
The community resilience concentration of the online Master of Arts in emergency management and homeland security (EMHS) provides the knowledge, skills and abilities required to tackle current and future challenges faced by cities globally. This program’s graduates will be well-prepared to utilize public policy and best applicable management practices within their professional areas to develop protection, mitigation and preparedness measures to prevent and/or minimize societal impacts of natural and human-made threats and hazards.

Emergency Management and Homeland Security (Emergency Management), MA
The emergency management concentration is a part of the Master of Arts in Emergency Management and Homeland Security is offered by the Watts College of Public Service & Community Solutions through ASU Online. This program’s graduates will be well-prepared to utilize public policy and best applicable management practices within their professional areas to develop protection, mitigation and preparedness measures to prevent and/or minimize societal impacts of natural and human-made threats and hazards. Likewise, our graduates will be able to employ necessary management and leadership skills in guiding local or national response to and recovery from any potential emergencies, disasters and other related societal threats.

Individuals interested in pursuing a program of study focused on homeland security policies and programs can pursue a homeland security concentration of the online Master of Arts in emergency management and homeland security (EMHS). The 33-credit hour program can be completed in as little as one year. This program's graduates will be well-prepared to utilize public policy and best applicable management practices within their professional areas to develop protection, mitigation and preparedness measures to prevent and/or minimize societal impacts of natural and human-made threats and hazards. Likewise, our graduates will be able to employ necessary management and leadership skills in guiding local or national response to and recovery from any potential emergencies, disasters and other related societal threats.

Emergency Management and Homeland Security, MA

Become a professional in areas related to emergency and disaster management, hazards management, public safety and homeland security. The Master of Arts in Emergency Management and Homeland Security (EMHS) degree program promotes stronger and more resilient communities by helping prepare our students to engage in the effective management of hazards and crises.

Emergency Management and Homeland Security (Cybersecurity Policy and Management), MA

The cybersecurity policy and management concentration of the online Master of Arts in emergency management and homeland security (EMHS) prepares students to utilize knowledge, skills and abilities in the emerging area of cybersecurity threats relevant to critical infrastructure protection and other key operations. Program graduates will help a wide range of organizations improve risk mitigation and risk management for natural and human-made hazards. This online concentration provides motivated students with knowledge, skills and abilities (KSAs) to assume leadership, management and other key operational positions in (primarily) public sector agencies with responsibilities in managing cybersecurity hazards and risk homeland security, emergency management and related areas. Cybersecurity issues cut across these domains.
**Nonprofit Leadership and Management, MNLM**
The Master of Nonprofit Leadership and Management (MNLM) degree is intended for professionals who work in or desire to work in the nonprofit sector. This online program provides an opportunity to obtain an advanced degree that addresses the unique character of nonprofit organizations and the social sector.

**Program Evaluation and Data Analytics, MS**
Master the skills necessary to pursue a career in the field of data sciences, one of the “sexiest careers of the 21st century,” by earning an online MS in Program Evaluation and Data Analytics. Learn how to improve organizational effectiveness by translating data into actionable information through evaluation and performance frameworks. This tools-based degree prepares you for a career that spans the public, nonprofit and private sectors using data-driven and evidence-based approaches to social impact.

**Public Administration (Executive Masters), EMPA**
Ranked nationally in the top 5% by US News & World Report, the ASU School of Public Affairs is launching an Executive Master of Public Administration (EMPA) degree in collaboration with the McCain Institute for International Leadership. The EMPA program is designed to develop an executive leaders’ capacity for effective decision-making. It is a 19-month online graduate degree program which also features 3-day face-to-face executive sessions in both Phoenix and Washington, D.C. The EMPA program is designed for public sector leaders throughout the world with a minimum of 5-7 years of progressive leadership experience and for experienced leaders in the nonprofit and private sectors who deal extensively with government officials.

**Public Safety Leadership and Administration (EMS - Mobile Integrated Health Care), MPSLA**
The emergency medical services - mobile integrated healthcare concentration of the online Master of Public Safety Leadership and Administration (PSLA) provides students with the necessary skills to help save lives as a pre-hospital emergency care practitioner.
Public Safety Leadership and Administration (Executive Fire Administration), MPSLA
Lead change and implement innovation in fire and emergency services organizations through the executive fire administration concentration of the online Master of Public Safety Leadership and Administration (PSLA). Students pursuing the executive fire administration degree will have a practical understanding of technical, managerial and public policy aspects of fire administration and community risk reduction. The EFA curriculum includes public policy, budgeting and finance, emergency services operations analysis and innovation in fire and emergency services. Students have the flexibility to explore related topic areas such as emergency medical services, homeland security and emergency management.

Public Safety Leadership and Administration (Executive Police Administration), MPSLA
Gain leadership skills to influence the future of law enforcement agencies with the executive police administration concentration of the Master of Public Safety Leadership and Administration (PSLA). Through the executive police administration degree, you will gain knowledge in organizational structures and strategies that support the systematic use of partnerships and problem-solving techniques to develop effective crime reduction solutions. The executive police administration concentration provides students with an experience to grow their working knowledge around law enforcement service organizations while also building a strong foundation of public administration skills.

Public Safety Leadership and Administration, MPSLA
The value of the Master of Public Safety Leadership and Administration degree program resides in its innovative and interdisciplinary curriculum and quality of instruction. This online degree prepares you, as a public safety professional, with the skills and knowledge necessary to manage and assume positions of leadership in public safety organizations.
Social Work - Standard Program, MSW
The Master of Social Work (MSW) online program at Arizona State University will prepare you to work with individuals, families, communities, and in the world at large to promote social justice and find practical solutions to social problems and pressing issues facing the most vulnerable in our society. The MSW program follows a set sequence of courses based on a broad range of social concerns and includes two professional seminars with synchronous elements designed for professional development. Along with your courses, you will also participate in 960 hours of mandatory hands-on field education at two different and distinct internship sites.

Sustainable Tourism, MST
Students in ASU’s Master of Sustainable Tourism (MST) receive a comprehensive education with a focus on the environmental, economic, and social aspects of tourism. Graduates are equipped with translatable skills necessary to create pioneering, sustainable development solutions to the challenges facing tourism today.
Minors & Certificates

Criminology and Criminal Justice (minor)
The minor in criminology and criminal justice allows students in other undergraduate programs at ASU to explore issues of crime, law and the criminal justice system. The College of Public Service and Community Solutions minor in Criminology and Criminal Justice provides students with the tools to analyze complex issues and policies within the criminal justice system, enhancing students’ ability to understand the nature of crime and the system response to law breaking.

Homeland Security (Undergraduate Certificate)
The online undergraduate certificate in Homeland Security provides you with skills and credentials that will prepare you to enter career fields specializing in Homeland Security.

Corrections Management (Graduate Certificate)
The online Graduate Certificate in Corrections Management enhances your skillset as a corrections administration professional through topics like criminal justice organizations, institutional management, corrections and community supervision and in cross-disciplines such as public administration.

Criminal Sentencing and Sentencing Advocacy (Graduate Certificate)
The online Graduate Certificate in criminal sentencing and sentencing advocacy is offered collaboratively by ASU’s School of Social Work and the School of Criminology and Criminal Justice. This program is ideal if you are a criminal justice professional looking for career advancement or additional expertise in your field. The program also caters to those in social work or other related fields who are looking for specialized skills in criminal sentencing.

Law Enforcement Administration (Graduate Certificate)
Arizona State University’s online Graduate Certificate in Law Enforcement Administration prepares law enforcement professionals through comprehensive coverage of topics in criminal justice organizations, policing and program analysis, and cross-disciplines such as public administration.
Program Evaluation (Graduate Certificate)
Do you want to deepen your evaluation capacity and strengthen your analytical skills? If so, the program evaluation certificate may benefit you as a professional. You'll develop expertise in impact evaluation through evidence-based quantitative approaches. These data-driven skills are in high demand to show the effectiveness of programs.

Social Entrepreneurship and Community Development (Graduate Certificate)
The social entrepreneurship and community development certificate offered online through ASU provides a framework for harnessing social entrepreneurial and enterprise opportunities and creating transformative responses to challenges prevalent in societies and communities.

Sustainable Tourism (Graduate Certificate)
The online Graduate Certificate in sustainable tourism development from ASU addresses the unique character of sustainability and sustainable practices in tourism development and management.

Non-Profit Leadership and Management (Graduate Certificate)
The graduate certificate in Nonprofit Leadership and Management online provides students with an understanding of the nonprofit sector’s role in society and knowledge applicable to those who wish to lead and manage nonprofit organizations.
<table>
<thead>
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W. P. Carey School of Business

The W. P. Carey School of Business at Arizona State University is one of the largest business schools in the United States with more than 15,000 students pursuing undergraduate, master’s, and PhD degrees. Solutions for the planet mean developing problem-solvers from around the globe. From our world-renowned faculty representing six continents to thousands of outstanding students who join us every year from around the world, the W. P. Carey School welcomes diversity and encourages global thinking.
Undergraduate Programs

Business (Business Administration), BA
The Bachelor of Arts in business with a concentration in business administration provides a breadth of knowledge and skills needed for managing business operations. These skills include forecasting demand, planning inventory, purchasing services, conducting skillful negotiations, building strategies for the future and managing people, finances and risk.

Business (Communication), BA
ASU’s Bachelor of Arts in business with a concentration in communication will prepare you to understand and shape message-related behaviors for the purpose of improving communicative interactions in the workplace. As a graduate of this program, you will be better qualified to enter private and nonprofit corporate communications positions with business knowledge that will be immediately useful to potential employers.

Business (Corporate Accounting), BA
School of Accountancy
The online Bachelor of Arts in Business with a concentration in Corporate Accounting is structured to prepare students for careers in management accounting. The BACA offers students an avenue to extend their careers’ from the more traditional perspective of “crunching numbers” for someone else to analyze potential decisions and courses of action from a financial perspective.

Business (Food Industry Management), BA
Morrison School of Agribusiness
ASU’s online Bachelor of Arts in business with a concentration in food industry management will prepare you for business careers in the processing, marketing and distribution of food beyond the farm to retail stores, restaurants and institutions.
Business (Global Leadership), BA  
*Department of Management and Entrepreneurship*  
Offered through ASU’s W. P. Carey School of Business, the online BA in business with a concentration in global leadership will prepare you for related careers by developing strong global business skills and focusing on global studies courses from regions around the world.

Business (Global Logistics Management), BA  
*(Department of Supply Chain Management)*  
Offered through the W. P. Carey School of Business, ASU’s BA in business with a concentration in global logistics management provides the needed skills to develop strategic business processes for logistics management and an understanding of their relationship to the global distribution of goods and services.

Business (Retail Management), BA  
ASU’s online Bachelor of Arts in business with a concentration in retail management focuses on the knowledge and skills necessary for leadership roles within the retail industry. Offered through The W. P. Carey School of Business, this degree provides the full business core plus a concentration with retail-specific coursework.

Business (Sustainability), BA  
ASU’s online Bachelor of Arts in business with a concentration in sustainability will provide you with the skills to help create an improved social and environmental quality of life for future generations. As a business sustainability student, you’ll prepare to meet the growing demand for leaders in sustainability, especially in relation to global businesses. You will develop an expertise in the societal, scientific and business aspects of sustainability and become fluent in understanding, evaluating and acting upon sustainability and eco-friendly issues, as well as decision-making for short- and long-term gains.
**Business (Tourism), BA**  
The Bachelor of Arts in business with a concentration in tourism is an innovative, interdisciplinary program intended to prepare students for positions in a variety of professions in which business and tourism play an important role in ensuring success. Developing tourism and recreation opportunities requires an understanding of effective marketing techniques and the ability to interact with many different types of businesses that support those efforts.

**Business Data Analytics, BS**  
*Department of Information Systems*  
The Bachelor of Science in business data analytics prepares business students with the requisite knowledge, skills and experience to create and manage big data initiatives as well as associated business processes to facilitate large-scale business data analytics in organizations. The program cultivates organizational and technical competencies to implement data gathering, cleansing, integration and modeling tasks as well as data asset analysis for business applications.

**Computer Information Systems, BS**  
*Department of Information Systems*  
The online W. P. Carey degree in computer information systems delivers the tools you need to meet rising demand for experts in systems analysis, business applications programming, web and mobile development, business database design, and decision support across public, private, nonprofit, and government entities worldwide. The online degree in computer information systems teaches you to design, build, and maintain information systems that support business operations and managerial decision-making.

**Economics, BS - Business**  
*Department of Economics*  
The online Bachelor of Science in Economics pairs a solid business curriculum with rigorous theoretical and empirical tools to study the decisions of individuals, firms and governments.
Management, BS  
*Department of Management and Entrepreneurship*  
The Bachelor of Science in management prepares students to become effective managers and team leaders by building theoretical and conceptual knowledge and critical skills. The curriculum includes the fundamentals of the global economy, the world of e-business, ethics, human resource and strategic management and collaborative team skills.

Marketing, BS  
*Department of Marketing*  
The Bachelor of Science in marketing prepares students to steer organizations in the right direction, with fundamental marketing knowledge and skills in market analysis, decision-making and communication. This major involves analysis of how businesses plan, organize, administer and control their resources to achieve marketing objectives. Focus is placed on market forces, growth and the survival of firms in competitive markets, as well as the marketing strategy and tactics of the firm.

Supply Chain Management, BS  
*Department of Supply Chain Management*  
Offered by the highly ranked Department of Supply Chain Management within ASU’s W. P. Carey School of Business, the 100% online business degree in supply chain management covers every aspect of integrated supply chain management. Graduates emerge with requisite preparation for careers in purchasing, logistics, operations, and beyond.
Graduate Programs

Business Administration (W. P. Carey MBA - Online Program), MBA
In the ASU Online Master of Business Administration program, you'll develop leadership skills and improve your knowledge of advanced business strategies. This 24-month program gives you the opportunity to earn an MBA, with an emphasis of your choosing in finance, international business, marketing or supply chain management.

Business Analytics, MS
Department of Information Systems
If you want to be on the forefront of big data, the masters in business analytics online will teach you how to manipulate, dissect and analyze data at rest. You'll take a deep dive into big data and data analytics while learning how to leverage data for business-critical solutions. As a business analytics graduate student, you'll take coursework in data mining and visualization, data modeling, marketing and predictive analytics, and machine learning to translate data into stories. Toward the end of the ASU business analytics online program, you'll work an applied project to address a problem in a business domain where the use of your analytics skills yields real-world experience.
Supply Chain Management, MS

Department of Supply Chain Management

The rapid pace of change in the world requires thinkers who have not only technical depth, but leadership and communication skills to match. The MS in Supply Chain Management trains future leaders who contribute to the conscious effort by organizations with their network of providers, to develop and run supply networks in the way that best benefits the consumer and the company. This degree program, offered in collaboration with MITx MicroMasters® program in Supply Chain Management on the edX platform, brings together faculty from two of the world’s top three supply chain management programs in the country, providing the opportunity for admitted students to learn from some of the best in the field. This online degree provides a thorough training in the technical elements of data and modeling, purchasing and procurement, and logistics to help graduates understand how to manage not just the flow of products, but also the processes that generate them. SCM is a discipline focused on data-driven changes that help an organization run more efficiently, infuses adaptability throughout the business operation, and has a high potential to bring sustainable business practices to the fore.

Minors & Certificates

Applied Business Data Analytics (Undergraduate Certificate)

Department of Information Systems

The online undergraduate certificate in Applied Business Data Analytics prepares any ASU undergraduate student for modern data-driven, evidence-based decision making processes.

Business (minor)

Students from other ASU colleges are welcome to add depth with a minor on business, designed as a complement for the non-business degree. You’ll build a strong foundation in important managerial topics, such as accounting, computer information systems, economics, finance, management, marketing, and supply chain management.
ASU Prep Digital

ASU Prep Digital is an accredited online high school where students can take a single online course or enroll in a full-time, diploma-granting program. We're embedding the university experience in high school to give students an accelerated path toward university admission and careers of the future. Our concurrent courses offer the chance to earn both high school and university credit.
English

English 9 (9th Grade English)
Why do authors make the choices they do? This course asks you to get to the heart of what makes effective texts, from novels to newspapers and from plays to travel blogs. As you formulate your big ideas, you will share your message through narrative, expository, and persuasive writing to make your mark on your school and the world.

English 10 (10th Grade English)
This course centers around reading, writing, and critical thinking. Incorporating universal themes found in plays, novels, and poetry, it uses these three skills to challenge you to not just examine texts for what is being expressed— it pushes you to analyze why and how language is used to affect an audience. The course also offers you an opportunity to explore more creative expressions of your acquired knowledge with unique and innovative projects. Finally, it encourages you to claim ownership of your learning, blending independent studies with your guided online experience, echoing a more “real world” reflection of personal accountability and responsibility.

English 11 (11th Grade English)
English 11 has two main objectives. The first is to help build cultural capital, while you take a historical survey through the American literature timeline. You will then trace a path from the icons of the Colonial era, through the tumultuous 1800s, and stop at today’s Post Modern landscape. The second objective is to help build global citizenship, which will ask you to research, critically think, and write about the issues that are most crucial, most vital, and most affecting life around the world. Together, these objectives work to build upon the skills of the past while exploring the potential for a brighter future.
**English 12 (12th Grade English)**
English 12 provides learners opportunities to make critical and informed responses to texts which are wide-ranging in their form, style and context. Experience British literature that introduces you to the cultural and societal contexts of the literary pieces you read. Advanced writing assignments are required, including a research paper based on your interests. English 12 provides learners opportunities to make critical and informed responses to texts which are wide-ranging in their form, style and context. You will also produce your own imaginative writing, and will demonstrate your ability to produce writing for given audiences.

**Half-credit options available A and B session; Honors courses available**

**Math**

**Algebra 1**
The course content will include a rigorous approach to solving, graphing, and writing linear quadratic, rational, and exponential functions. You will develop mathematical knowledge that will increase your ability to communicate and reason with mathematical concepts. This course offers a solid foundation for further study of mathematical relationships.

**Algebra 2**
Included in this course is a study of the complex number system and its properties, factorization, simplification of radicals and polynomials, linear and quadratic functions, graphs and equations, matrices, determinants, rational expressions, probability, and statistics. You will develop mathematical knowledge that will increase your ability to communicate and reason with mathematical concepts. This course offers a solid foundation for further study of mathematical relationships.
Calculus
Calculus plays an important role in science, medicine, sociology and economics. Consequently, it is important for everyone to learn. The objective of this course is to enable students not just to recognize concepts but learn to work with them in ways that will be useful in their future careers and life. The course uses a logical progression from fundamental to advanced concepts so that students can make more connections between theories and applications. Topics include limits, continuity, derivatives, related rates, optimization, integration, area under the curve, volumes of revolution, and centers of mass.

Geometry
Included in this course is a study of both two and three-dimensional shapes, congruence, similarity, transformations and the relationships between geometric shapes. You will develop mathematical knowledge that will increase your ability to communicate and reason with mathematical concepts. This course offers a solid foundation for further study of mathematical relationships.

Precalculus
Included in this course is a further depth study of functions, quadratics, logarithms, coordinate geometry, vectors, trigonometry probability and statistics with the addition of differentiation, integration and differential equations. You will develop mathematical knowledge that will increase your ability to communicate and reason with mathematical concepts. This course offers a solid foundation for further study of mathematical relationships.
Science Lab

**Biology: BioBeyond**
This course allows you to learn about living organisms, including humans, and their interactions with each other and their surroundings. This includes investigations regarding the health of human beings, animals, organisms, and entire ecosystems. You will learn how the advances in the study of biology impact society and each of us as individuals and, in turn, how we each have an impact on the organisms and environment around us. Ultimately and ideally, this will culminate in a newfound appreciation for the interdependence of life on Earth. You are required to complete live, in-person biology wet labs (with materials available at home or a school lab site) throughout the course supplemented by the college-level Late Nite Labs experiences and virtual field trips.

**Chemistry (SmartSparrow)**
This course allows you to study atoms and their interactions with each other and their surroundings. This includes investigations into heat, energy, molecular bonding, chemical and physical reactions, radioactivity, acids, and bases. It will show you how things bond together to make new substances and how those substances interact with the world around us. You will learn how advances in the study of chemistry impact society and each of us as individuals and, in turn, how we each have an impact on the environment around us. You will participate in regular in-person labs (with materials available at home or a school lab site), and conduct experiments, supplemented by college-level Late Nite Labs and other virtual reality experiences.

**Physical Science**
In this course, you will have the opportunity to explore the characteristics of objects and materials that you encounter daily. You will gain an understanding of the nature of matter and energy, including their forms, the changes they undergo, and their interactions. You will develop an understanding of the fundamental laws of motion, knowledge of the various ways energy is stored in a system, and the processes by which energy is transferred between systems and surroundings. You will participate in regular in-person labs (with materials available at home or a school lab site), and experience experiments that are supplemented with college-level Late Nite Labs and other virtual reality experiences.
Physics
This course helps learners understand the technological world in which they live and take an informed interest in science and scientific developments. You will learn about the basic principles of physics through a mix of theoretical and practical studies. You will also gain an understanding of how science is studied and practiced, and become aware that the results of scientific research can have both good and bad effects on individuals, communities, and the environment. You will participate in regular in-person labs (with materials available at home or a school lab site), and experience experiments that are supplemented with college-level Late Nite Labs and other virtual reality experiences.

General Electives

Consumer Economics/Personal Finance
We all know money is important in life. But how important? In fact, the financial decisions you make today may have a lasting effect on your future. Rather than feeling anxious about money feel empowered by learning how to make smart decisions! Personal and Family Finance will begin the conversation around how to spend and save your money wisely, investing in safe opportunities and the days ahead. Learning key financial concepts around taxes, credit, and money management will provide both understanding and confidence as you begin to navigate your own route to future security. Discover how education, career choices, and financial planning can lead you in the right direction to making your life simpler, steadier, and more enjoyable.
Creative Writing
For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing, we can come to better understand ourselves and our world. This course can provide you with a solid grounding in the writing process, from finding inspiration to building a basic story. Then, when you are ready to go beyond the basics, learn more complicated literary techniques to create strange hybrid forms of poetry and prose. By the end of this course, you can better discover your creative thoughts and turn those ideas into fully realized pieces of creative writing.

Entrepreneurship 1: Ideas and Strategies
You will get a front row seat and see how early-stage business investors make their investments. You first look through the lens of an investor. Then you will learn the fundamentals of identifying opportunity, creating value, and capturing value with the Three Pillars of Entrepreneurship™. You will prepare their own rubric for investing, and develop startup investment recommendations. Next, you will look through the lens of the entrepreneur and will apply insights and understanding to develop a business concept of your own, and develop your ideas into an investor pitch deck.

Entrepreneurship: Entrepreneurial Research
Research can be the difference between success and failure. This course teaches students approaches and methods for increasing their probability of success. Then students will apply value creation directly to venture design. They will take a deep dive into entrepreneurial strategy, and apply these learnings to further develop and fortify their venture.
Entrepreneurship 3: Telling Your Story
In this course, students will develop a comprehensive marketing strategy that works. They will take an empathetic approach to extending their company into the public domain. We will explore branding, traditional marketing, and current trends, including social media and crowd-funding. From a legal perspective, students will learn about entity formation, registration and compliance with laws, and the basics of contracts. The finance section will introduce students to a balance sheet and profit and loss.

Entrepreneurship 4: Entrepreneurial Capstone
The Entrepreneurship track culminates in this capstone class. Students will engage in in-depth discussions, guided readings, and other exercises to help them turn their four years of Entrepreneurship study into a fully-fledged business pitch that is suitable for investors. Ideally, each student will launch a crowdfunding campaign and or compete in a venture competition.

Fitness/Conditioning Activities

Fitness/Conditioning Activities A (semester)
This course is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre- and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. In this course, students research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout this course students participate in a weekly fitness program involving elements of cardio, strength, and flexibility training.
Fitness/Conditioning Activities B (semester)
This course takes a more in-depth look at the five components of physical fitness touched on in Fitness Fundamentals 1: muscular strength, endurance, cardiovascular health, flexibility, and body composition. This course allows students to discover new interests as they experiment with a variety of exercises in a non-competitive atmosphere. By targeting different areas of fitness, students increase their understanding of health habits and practices and improve their overall fitness level. Students take a pre- and post-fitness assessment. Throughout this course students also participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

Forensic Science
Fingerprints. Blood spatters. Gunshot residue. If these things intrigue you rather than scare you, Forensic Science I: Secrets of the Dead may be for you. This course offers you the chance to dive into the riveting job of crime scene analysis. Learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. You will better understand how forensic science applies technology to make discoveries and bring criminals to justice as you follow the entire forensic process—from pursuing the evidence trail to taking the findings to trial. By careful examination of the crime scene elements, even the most heinous crimes can be solved.

Health Education
This comprehensive health course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the semester. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.
Leadership 1
The Leadership and Collaboration course explores roles, responsibilities, and leadership styles by putting you in the driver’s seat of a small, poorly run non-profit. You will learn the basics of leadership, decision-making, collaboration, and culture building, and apply that knowledge to make their non-profit a success. In doing so, you will also begin to define your own leadership style.

Leadership 2: Culture Building
This course builds on the knowledge gained in the Leadership and Collaboration course. You will explore the characteristics and interactions of the four personality profile types. You will define and solidify their leadership style and capacity to collaborate with and lead others. You will learn practical frameworks, tools, and skills. All of which help you select, form, and lead a successful team. You will learn the art of organizational culture building in a variety of arenas.

Leadership 3: Conflict Management
Leadership is about more than just taking charge. It is about building up your team and helping each individual become the most successful versions of themselves. This course tackles two unavoidable demands on real life. The first is to identify, manage, and resolve conflict. The second is to effectively negotiate situations, terms, and conditions. This class will prepare students to navigate both subjects with clarity and empowerment. Students will learn the knowledge and skills to manage and coach individuals towards maximum performance, personal growth, and contribution to the overall goals of the group.

Leadership 4: Capstone
The Leadership track culminates in this capstone class. Students will engage in in-depth discussions, guided readings, and other applied-learning exercises to help them turn their four years of Leadership and Collaboration study into a personalized toolbox and guide they can draw upon and deploy in their academic, professional, and personal lives.
**Marine Science**

Have you ever wondered about the secrets of the deep, and how the creatures below the ocean's surface live and thrive? It is truly a new frontier of discovery, and in Marine Science you will begin to better understand the aquatic cycles, structures, and processes that generate and sustain life in the sea. Through the use of scientific inquiry, research, measurement, and problem solving, you will conduct various scientific procedures that will lead to an increased level of knowledge about Marine Science. You will also have the opportunity to use technology and laboratory instruments in an academic setting. By recognizing the inherent ethics and safety procedures necessary in advanced experiments, you will become progressively more confident in your abilities as a capable marine scientist.

**Psychology**

Do you ever wonder how your mind works? Why do you think about your world the way you do? As you prepare for college, career, and life, psychology is an invaluable foundation for understanding what makes humans tick. In addition to theory and science work, you will gain knowledge on a wide array of issues on both individual and global levels, examining connections between content areas within psychology and relating them to psychological knowledge of everyday life, including available careers for those who study psychology.

**Recreational Sports**

This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of martial arts, Pilates, fencing, gymnastics, and water sports. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the components of fitness, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments, set goals, and participate in weekly physical activity.
Social Studies

Economics
How does our modern economy work? In this course, you will examine the allocation of scarce resources and the economic reasoning used by government agencies and by people as consumers, producers, savers, investors, workers, and voters. As you prepare for college, career, and life, you will examine the key economic philosophies and economists who have influenced the economies around the world in the past and present.

Government
With great freedom, comes great responsibility. Become an expert in responsible citizenship as you study the purposes, principles, and practices of American government as established by the U.S. Constitution. In this course, you will learn how and why the US Government was developed, and how it currently operates. Included in this exploration will be the historical context for the creation of the US Constitution and the three branches of the government, Executive, Legislative, and Judicial. You will also learn about the role of state and local governments, all while contemplating how and why citizens can participate responsibly within these contexts.

Modern U.S. History
This course offers you the opportunity to discover key issues, ideas, people, and events that shaped the emergence and development of the United States. This course focuses on the mid-nineteenth century to the start of the twenty-first century. You will develop an understanding of the present as well as the past. This course allows you to study American history through the use of primary and secondary sources. You will develop skills in research and investigation, critical analysis, and written communication. You will choose a special topic of interest for your research project along with a depth study.
**Modern World History**
How do historians read and write? In this unique, depth study course, you will examine the origins and analyze the consequences of the major events and themes throughout 20th Century world history. You will form your own ideas about the major events and learn how to write with confidence.

**World History**
World History provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History includes geographical studies, but not to the same extent explicitly taught as geography.

**World Languages**

**Arabic 1**
In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

**Arabic 2**
In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.

**Arabic 3**
In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.
French 1
In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

French 2
In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.

French 3
In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.

German 1
In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

German 2
In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.
German 3
In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.

Latin 1
In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

Latin 2
In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.

Mandarin 1
In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

Mandarin 2
In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.

Mandarin 3
In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.
**Spanish 1**
In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

**Spanish 2**
In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.

**Spanish 3**
In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.

**Fine Arts/CTE Electives**

**Art History**
The course looks at characteristics of culture and art, primarily in the Western world, from prehistoric times up to the modern day. By exploring major turning points in history such as the first tools made, the first civilizations formed, and the rise and fall of major empires and religions you will more easily make connections to the artworks created. The course will also emphasize the impact culture itself has on the artworks produced in various times and places. You will examine the different types of value we assign to various types of art including aesthetic value, economic value, and social value. And lastly, you will learn about principles of design, which will help to build a common vocabulary for discussing and critiquing art.
**Cinematography/Video Production**

Whether you love film, want to make videos for fun, or dream of becoming the next big director, this course is a great place to start. This is an entry-level course that will serve as an introduction to basic video/film/audio production. The goal of the course is for the student to develop the ability to capture great video images and audio, and to be able to edit those two elements together to tell a story. No prior video and film experience is needed. You will learn the fundamentals of visual storytelling, narrative writing, cinematography, lighting, and editing which serve as the basic skills necessary to take a short film from start to finish.

**Required Materials:** Students will need a single-license of Adobe Premiere Pro editing software, access to a digital video camera (can be a smartphone), audio recorder (can also be a smartphone), a tripod or monopod to stabilize your camera, and camera lights (can be lights from around your house). As film and video is a collaborative art form, you will need people to be in your projects. This can be parents, siblings, friends or really anybody you can get to help you. The objective of this course isn’t to teach dramatic performance so it’s more important you have subjects to help you even if they don’t consider themselves actors.

**Digital Photography 1**

Have you ever wondered how professional photographers manage to take such sensational pictures? How are they able to find just the right way to capture an image or moment in time? Perhaps you’ve even wondered why your own pictures don’t meet that standard. Digital Photography I: Creating Images with Impact! will answer these questions and help you understand.

**Required Materials:** Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted), a Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture. A tripod (or necessary item(s) to create a stable foundation such as a table), reflector (white paper, poster board, sheets, or a wall can also serve as a reflector), image editing software and access to a slideshow application, such as PowerPoint are also needed.
Digital Photography 2
In today's world, we are surrounded by images. We are continually seeing photographs as they appear in advertisements, on websites, in magazines, and on billboards; they even adorn our walls at home. While many of these images have been created by professional photographers, it is possible for your photos to take on a more professional look after you take them.

Required Materials: Digital camera: “point and shoot” or above. A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture. One frame (of your choice) to display a photograph on the wall, 3M strip (or something similar), image editing software capable of the following: cropping, changing a photo to black and white, adjusting color and brightness, resizing images, applying filters and special effects like texture or glitter, creating layers are also needed.

Game Design 1
Are you a gamer? Do you enjoy playing video games or coding? Does the idea of creating and designing your own virtual world excite you? If so, this is the course for you! Tap into your creative and technical skills as you learn about the many aspects involved with designing video games. You will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. And to top it all off, you’ll even have the opportunity to create your very own plan for a 2D video game! Turn your hobby into a potential career and go from simply being a player in a virtual world to actually creating one.
**Game Design 2**
Build upon the skills learned in Game Design 1. You will learn more about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. And to top it all off, you’ll even have the opportunity to create your very own plan for a 2D video game!

**Guitar 1**
This course is designed for people who have never picked up the instrument before but have always wanted to try. The course covers all of the notes, chords, and theory that you need to get started. And for those more advanced players, you’ll learn about different musical styles and techniques that aim to round out your sound and inspire your songcraft.

Required Materials: To complete this course, you will need 1 of the following types of guitars: 6 string acoustic, 6 string electric, or 6 string classical. You will also want a few picks at your disposal. Optional purchases that most players like to have on hand include: 1 set of backup strings, 1 string winder / peg winder, and 1 tuner app downloaded on your phone (or 1 physical tuner).
**Guitar 2**
Are you ready to take your guitar playing to the next level? Whether you want to play guitar for your family and friends, desire to be a professional performer, or just love playing music, this course is a great place to continue your journey towards musical excellence. You will build on the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Ariel, will guide you through each step of this journey towards becoming a skilled guitarist and musician. This course can be used as a performing/fine arts credit to meet the requirements for certain high school graduation tracks.

Required Materials: To complete this course, you will need 1 of the following types of guitars: 6 string acoustic, 6 string electric, or 6 string classical. You will also want a few picks at your disposal. Optional purchases that most players like to have on hand include: 1 set of backup strings, 1 string winder / peg winder, and 1 tuner app downloaded on your phone (or 1 physical tuner).

**Music Appreciation**
Have you ever heard a piece of music that made you want to get up and dance? Cry your heart out? Sing at the top of your lungs? Whether pop, classical, or anything in between, music provides a powerful way for people to celebrate their humanity and connect with something larger than themselves. Music Appreciation: The Enjoyment of Listening not only will provide a historical perspective on music from the Middle Ages to the 21st century, but it will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that’s all around you. Learning how to truly appreciate sound and melody is the best way to ensure a continued love of this delightful art form.
College Credit Courses

Art History

Art from Renaissance through Present
(COLLEGE: ASU COURSE ARS 102)
History of Western art from the Renaissance to the present.

Art of Africa/Oceania/Americas
(COLLEGE: ASU COURSE ARS 202)
History of art of Africa, Oceania, and the New World. Meets non-Western art history requirement.

Art of Asia
(COLLEGE: ASU COURSE ARS 201)
History of the art of the Asian cultures, with emphasis on China, Japan, and India. Meets non-Western art history requirement.

Art Prehistory through Middle Ages
(COLLEGE: ASU COURSE ARS 101)
History of Western art from the Paleolithic period through the Middle Ages. Allows you to learn how art and visual culture becomes established in the ancient world. Follow its developments and evolutions through Classical times into the complex mysteries of the Middle Ages.

History of Photography
(COLLEGE: ASU COURSE ARS 250)
History of photography from the 19th century to the present.

Business and Careers

Career Development
(COLLEGE: ASU COURSE CED 250)
This course will focus on the learning models of the individual, the world of work, decision making, and career skill-building with a special emphasis on individual application. The goal is to facilitate student personal and professional growth.
Communication in Business and the Professions
(COLLEGE: ASU COURSE COM 259)
Interpersonal, group, and public communication in business and professional organizations.

Exploration of Public Service and Careers
(COLLEGE: ASU COURSE PAF 200)
Provides a broad introduction to the field of public service and leadership. Topics include an overview of management, policy, urban studies, and leadership in the public sector. Covers the history and development of the public sector, as well as how it serves contemporary society.

Introduction to Nonprofit Organizations
(COLLEGE: ASU COURSE NLM 220)
Introduces the nonprofit sector and its role in developing the cultural, economic, and social impact in U.S. society.

Macroeconomics
(College: ASU Course ECN 211)
Basic macroeconomic analysis. Economic institutions and factors determining income levels, price levels, and employment levels.

Microeconomics
(College: ASU Course ECN 212)
Basic microeconomic analysis. Theory of exchange and production, including the theory of the firm.

Uses of Accounting Info
(COLLEGE: ASU COURSE ACC 231)
Introduces the uses of accounting information focusing on the evolution of the business cycle and how accounting information is used for internal and external purposes.

Uses of Accounting Info II
(COLLEGE: ASU COURSE ACC 241)
Introduces the uses of accounting information focusing on the evolution of the business cycle and how accounting information is used for internal and external purposes.
Communications

All About Data
(COLLEGE: ASU COURSE ACO 100)
Data modeling and design, spreadsheets, relational databases and querying, visualization and XML.

Elements of Intercultural Communication
(COLLEGE: ASU COURSE COM 263)
Basic concepts, principles, and skills for improving communication among persons from different minority, racial, ethnic, and cultural backgrounds.

Elements of Interpersonal Communication
(COLLEGE: ASU COURSE COM 110)
Demonstration and practice of communicative techniques in establishing and maintaining interpersonal relationships. Become a better communicator as you learn the fundamental concepts related to interpersonal communication across a variety of interactions, such as those with friends, co-workers, family members, and romantic partners. This course focuses on learning concepts, processes, and challenges involved in interpersonal communication, as well as skills that will make you a better communicator.

Everyday Grammar
(COLLEGE: ASU COURSE MCO 101)
Helps students master the elements of English grammar.

Fundamentals of Coding
(COLLEGE: ASU COURSE MCO 102)
Provides a basic understanding of how the Internet works, knowledge of how to create and upload Web pages, and a basic introduction to programming with JavaScript. Assumes no previous knowledge of any of the topics, although requires basic knowledge of how to use a Web browser and navigate the Web.

Introduction to Communication Inquiry
(COLLEGE: ASU COURSE COM 207)
Bases of inquiry into human communication, including introduction to notions of theory, philosophy, problems, and approaches to the study of communication.
Introduction to Human Communication  
(COLLEGE: ASU COURSE COM 100)  
Learn about the basic concepts of human communication and interaction behavior and surveys communication topics related to culture, gender, identity, organizations, and relationships. In doing so, this course provides you an overview of many of the specialty areas within the communication studies discipline: intercultural, interpersonal, organizational, media studies, performance studies, and rhetoric.

Media and Culture  
(COLLEGE: ASU COURSE COM 124)  
Introduces contemporary intercultural issues as expressed through various media in American society.

Media and Society  
(COLLEGE: ASU COURSE MCO 120)  
Covers the role of newspapers, magazines, radio, television and motion pictures in American society.

Media Issues in American Pop Culture  
(COLLEGE: ASU COURSE MCO 240)  
Examines the production and consumption of popular culture as disseminated by the mass media with emphasis on the societal implications.

Media Research Methods  
(COLLEGE: ASU COURSE MCO 302)  
Surveys research methods used in the social sciences, with a focus on mass communication.

Criminal Justice Courts and Sentencing  
(COLLEGE: ASU COURSE CRJ 203)  
Structure and operation of the criminal court system.

Crime Control and Policies  
(COLLEGE: ASU COURSE CRJ 201)  
Dimensions and causes of crime. Criminal justice system responses.
Criminal Justice Crime Control Policies and Practices
(COLLEGE: ASU COURSE CRJ 201)
Dimensions and causes of crime. Criminal justice system responses.

Economics and Public Policy
(COLLEGE: ASU COURSE PAF 201)
Introduces the terminology and methods of analysis in microeconomics. In particular, examines the behavior of individual consumers and firms, with a focus on market failures and the role of government policy in correcting those failures. Applies microeconomic principles to the distribution of income, policies for eliminating poverty and discrimination, the problems of environmental pollution, and the impact of different market structures on economic activity.

Intro to Criminal Justice
(COLLEGE: ASU COURSE CRJ 100)
Gain an overview of the criminal justice system, including an examination of the major sub-areas within the criminal justice system, such as law enforcement, the courts, and corrections. In exploring these areas, you will also learn about the history, theory, research, legislation, and policy implications related to the criminal justice system.

Introduction to Corrections
(COLLEGE: ASU COURSE CRJ 240)
Structure and operation of corrections system.

Introduction to Criminology
(COLLEGE: ASU COURSE CRJ 225)
Theoretical explanations for criminal behavior.

Introduction to Policing
(COLLEGE: ASU COURSE CRJ 230)
History of police. Contemporary police work. Problems in policing.

Professional Growth in Criminal Justice
(COLLEGE: ASU COURSE CRJ 284)
Targeted field practice with criminal justice agencies. Prerequisite for internship.
Public Service in the 21st Century  
(COLLEGE: ASU COURSE PAF 200)  
Provides a broad introduction to the field of public service and leadership. Topics include an overview of management, policy, urban studies, and leadership in the public sector. Covers the history and development of the public sector, as well as how it serves contemporary society.

Education

Children's Literature  
(COLLEGE: ASU COURSE RDG 291)  
Focuses on selecting and using children's literature and related nonprint media to support the elementary school curriculum. Covers the elements, genres and applications of children's literature, as well as the resources available for elementary classroom teachers. Constructs criteria for the selection of trade books for educational and personal use. Also, explores the role of digital media in children's literature.

Exploration of Education  
(COLLEGE: ASU COURSE TEL 111)  
Education as an instrument in the development of the individual and in society, and its significance as an American Institution.

Orientation to Education of Exceptional Children  
(COLLEGE: ASU COURSE SPE 222)  
Legal aspects of special education; legislation, education and community services to meet the needs of students with special education needs. Examines the nature and characteristics of students with developmental disabilities, autism, communication disorders, emotional or behavioral disorders, learning disabilities, sensory impairments, orthopedic impairments, other health impairments, and children with gifts and talents.
Technology Literacy: Problem Solving using Digital Technology Applications  
(COLLEGE: ASU COURSE EDT 180)  
Introducing digital technologies and their place in society. Applies 21st century skills to problem solving using digital technology applications including spreadsheets and databases.

The Developing Child: Theory into Practice, Prenatal-Grade 3 (COLLEGE: ASU COURSE ECD 211)  
Examines process of physical, social, emotional, cognitive, language, and literacy development of young children; includes observation, practical application, fieldwork.

Understanding the Culturally Diverse Learner  
(COLLEGE: ASU COURSE TEL 212)  
Surveys cultural and linguistic diversity in American education, including education equity, pluralism, learning styles, and roles of schools in a multiethnic society.

Engineering

General Chemistry for Engineers  
(COLLEGE: ASU COURSE CHM 114)  
Chemical principles with emphasis toward engineering.

Human Systems Engineering  
(COLLEGE: ASU COURSE HSE 101)  
Introduces basic principles, methods and theories of psychology and applications to engineering problems relevant to human systems. Gives particular attention to the intersection of psychology and engineering. Students learn brain anatomy and physiology, sensation and perception, cognition, social systems and research methods so that they are able to design systems consistent with human capabilities and limitations.

Introduction to Engineering  
(COLLEGE: ASU COURSE FSE 100)  
Introduces the engineering design process; working in engineering teams; the profession of engineering; engineering models, written and oral technical communication skills.
University Physics I: Mechanics + Lab
(COLLEGE: ASU COURSE PHY 121 + 122)
Kinematics, Newton's laws, work, energy, momentum, conservation laws, dynamics of particles, solids, and fluids

English

First Year Composition 101
(COLLEGE: ASU COURSE ENG 101)
Develop your ideas, express ideas effectively, and engage different literacies with special attention to expository and persuasive writing. Critical reading of articles, speeches, and other non-literary texts help you to understand the rhetorical process, to analyze audience and its cultural contexts, and to foresee the audience's response.

First Year Composition 102
(COLLEGE: ASU COURSE ENG 102)
Increase your ability to develop ideas, express ideas effectively, and engage different literacies with special attention to expository and persuasive writing. You will engage in critical reading of articles, speeches, and other non-literary texts to help you to understand the rhetorical process, analyze audience and its cultural contexts, and foresee the audience's response.

Fine Art

Art in My World
(COLLEGE: ASU COURSE ARA 195)
Basic concepts and fundamental questions that provide insights into art making and that affect one's understanding and appreciation of art.
Introduction to Digital Culture
(COLLEGE: ASU COURSE AME 111)
Examines the effects of digital technology on the way we live, communicate, learn, and create. Proposes that we are moving towards a hybrid (physical-digital) existence and culture. Traces that evolution looks at current examples of hybrid cultural processes and outcomes, and discusses possible future trends. Discusses how these changes are influencing the work and career possibilities of people involved in all aspects of human culture. Comprises diverse readings, media products, class interaction, group discussion and hands-on collaborative projects exploring concepts covered in class. Also includes a number of guest lectures from ASU faculty.

Media Literacy for Musicians
(COLLEGE: ASU COURSE MHL 201)
Instruction in basic Macintosh computer literacy, including generic applications and music-specific programs with hands-on experience.

Nonmajors Class Piano: Beginner
(COLLEGE: ASU COURSE MUS 145)
For students with little or no previous music experience. Students learn beginning piano skills.

Health and Wellness

Applied Food Principles
(COLLEGE: ASU COURSE NTR 142)
Applied scientific principles of food preparation and production.

Cultural Aspects of Health
(COLLEGE: ASU COURSE HCD 210)
Examines how culture influences health, health care practices, barriers to health care, interactions with health care professionals, and health disparities in the U.S. Addresses the need for cultural competence among health practitioners.
Foundations of Health and Well-Being
(COLLEGE: ASU COURSE CHS 100)
Addresses the knowledge, attitudes and behaviors associated with various health dimensions. Explores interprofessionalism and current issues in health and well-being.

Intro to Clinical Informatics
(COLLEGE: ASU COURSE BMI 201)
Introduces existing and future applications of biomedical informatics. Overview of history and present state of the field. Provides an introduction to biomedical informatics techniques and applications used in clinical environments. Includes searching and organizing free text information, decision analysis techniques and clinical decision support systems, and clinical applications including physician order entry used in electronic medical records. Also covers challenges in clinical informatics, including sociotechnical and cognitive issues in implementation and use.

Introduction to Global Health
(COLLEGE: ASU COURSE ASB 100)
Current global health crises, challenges; tools for describing health and disease; ecological, cultural, social, historical, political-economic factors; comparative health systems.

Introduction to Nutrition, Health and Safety
(COLLEGE: ASU COURSE ECD 220)
Emphasizes providing proper nutrition, promoting a safe but challenging learning environment, and becoming knowledgeable of a child’s health status. Also covers practical applications for assisting young children to develop good habits and attitudes and to assume lifelong responsibility for their own well-being.

Introductory Nutrition
(COLLEGE: ASU COURSE NTR 100)
Basic concepts of human nutrition. Recent controversies in nutrition and how food choices affect personal health.
Mathematics

Brief Calculus
(COLLEGE: ASU COURSE MAT 210)
Differential and integral calculus of elementary functions with applications.

Calculus for Engineers I
(COLLEGE: ASU COURSE MAT 265)
Limits and continuity, differential calculus of functions of one variable, introduction to integration.

Calculus for Engineers II
(COLLEGE: ASU COURSE MAT 266)
Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, Taylor series.

Calculus for Life Sciences
(COLLEGE: ASU COURSE MAT 251)
Differential and integral calculus of elementary functions. Introduces differential and difference equations. Emphasizes applications to the life sciences.

College Algebra
(COLLEGE: ASU COURSE MAT 117)
In this course you will study linear and quadratic functions, systems of linear equations, logarithmic and exponential functions, sequences, series, and combinatorics.

College Mathematics
(COLLEGE: ASU COURSE MAT 142)
Applies basic college-level mathematics to real-life problems. Topics include numerical reasoning, sets, counting techniques, probability, basic statistics and finance. Appropriate for students whose major does not require MAT 117 or 170.

Elements of Statistics
(COLLEGE: ASU COURSE STP 226)
Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation.
Finite Math  
(COLLEGE: ASU COURSE MAT 119)  
Finite Mathematics is an introduction to the mathematics required for the study of social and behavioral sciences and includes topics from finance, set theory, counting, probability, and statistics.

Precalculus  
(COLLEGE: ASU COURSE MAT 170)  
This course includes intensive preparation for calculus. Topics include functions (including trigonometric), vectors and complex numbers.

Medical Sciences

Clinical Health Care Ethics  
(COLLEGE: ASU COURSE HCR 210)  
Healthcare ethics emphasizing analysis and ethical decision making at clinical and health policy levels for healthcare professionals.

Culture and Health  
(COLLEGE: ASU COURSE HCR 230)  
 Cultures of diverse groups and health/illness. Cross-cultural communication, awareness of own cultural influences, indigenous and alternative healing practices.

Human Anatomy and Physiology I  
(COLLEGE: ASU COURSE BIO 201)  
Studies the structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. Cannot be used for major credit in the life sciences.
Human Anatomy and Physiology II
(COLLEGE: ASU COURSE BIO 202)
Studies the structure and function of the human body. Topics include cardiovascular, respiratory, lymphatic/immune, endocrine, renal, digestive, and reproductive systems. Cannot be used for major credit in the life sciences.

Human Development
(COLLEGE: ASU COURSE CDE 232)
Lifespan development from conception through adulthood, with emphasis on family influences. Recognition of individuality within the universal pattern of development.

Human Pathophysiology
(COLLEGE: ASU COURSE HCR 240)
Chemical, biologic, biochemical, and psychological processes used in study of structural and functional alterations in health with selected therapeutics.

Intro to Health Professions and the US Health Care System
(COLLEGE: ASU COURSE HCR 220)
Introduces the historical, social, political, economic and interprofessional contexts in which health care professions and the United States health care system evolved.

Introduction to Nursing and Health Care Systems
(COLLEGE: ASU COURSE HCR 220)
Introduces the social, political, and economic contexts in which the nursing profession and health care systems in the United States evolved.

Topic: Introduction to Health Innovation
(COLLEGE: ASU COURSE HCI 150)
Covers topics of immediate or special interest to a faculty member and students.
Science

**Engineering Perspectives on Biological Systems**  
(COLLEGE: ASU COURSE BME 111)  
Biological concepts for the emerging engineer. Introduces biological and earth systems engineering, materials, structures, fluid mechanics, bioelectricity, and the dynamic, nonlinear nature of nature.

**General Biology I**  
(COLLEGE: ASU COURSE BIO 181)  
Biological concepts emphasizing principles and the interplay of structure and function at the molecular, cellular, and organismal levels. Intended for life sciences, biology, and health-related science majors.

**General Biology II**  
(COLLEGE: ASU COURSE BIO 182)  
Biological concepts emphasizing principles and the interplay of structure and function at the organismal, population, and community levels. Intended for life sciences, biology, and health-related science majors.

**General Chemistry II**  
(COLLEGE: ASU COURSE CHM 116)  
Continuation of CHM 113. Equilibrium theory, thermodynamics, kinetics, electrochemistry, nuclear chemistry and descriptive chemistry.

**Greek and Latin Roots in Bioscientific Terminology**  
(COLLEGE: ASU COURSE BIO 140, GRK 140, LAT 140, OR SLC 140)  
Introduces students to the ancient Greek and Latin root words most commonly used in biological, medical, and other scientific terminology, and gives practice identifying them in context. The knowledge of these root words enables students to memorize with greater ease and increased retention the bioscientific terminology they encounter in other coursework as well as in their medical or scientific profession.
Habitable Worlds
(COLLEGE: ASU COURSE SES 106)
Are we alone in the Universe? If so, why? If not, where are our cosmic cousins? Such questions, once the domain of science fiction, are on the verge of being answered with science facts. Astronomers are discovering planets around other stars. Planetary scientists are exploring the worlds in our solar system. Biologists are unlocking the secrets of metabolism and evolution. Geoscientists are determining how the Earth supports life. And as we struggle to build a sustainable future for ourselves, all of us are finding out how technologically advanced civilizations rise and how they might fall. This course surveys these topics. In the process, students master basic concepts from across the major areas of science and learn what makes the Earth a habitable world.

Introduction to Environmental Science
(COLLEGE: ASU COURSE BIO 130)
Introduces the interconnected nature of Earth’s hydrosphere, lithosphere (soils and rocks), atmosphere, and biosphere.

Introductory Chemistry
(COLLEGE: ASU COURSE CHM 101)
Elements of general chemistry. Adapted to the needs of students in nursing and kinesiology and those preparing for general chemistry. Recommended for General Studies credit. Cannot be used for major credit in chemical or biochemical sciences.

The Living World
(COLLEGE: ASU COURSE BIO 100)
Principles of biology. Cannot be used for major credit in the biological sciences.

Social Studies / Social Sciences

Buried Cities and Lost Tribes
(COLLEGE: ASU COURSE ASB 222)
Archaeology through its most important discoveries.
Economics: A Social Issues Perspective  
(COLLEGE: ASU COURSE SWU 181)  
Credit is allowed for only SWU 181 or 194  
(Economic and Social Issues in Perspective).

Global History to 1500  
(COLLEGE: ASU COURSE HST 100)  
Learn about the ideas, events, and people from across the world from the first civilizations to the Mongol invasions of the thirteenth and fourteenth centuries. You will explore the rise of civilizations across the globe and their impacts on the future of humanity while focusing on the cultural, political, and economic exchanges between different peoples and their impacts on their societies.

Intro to Social Work  
(COLLEGE: ASU COURSE SWU 171)  
Gain a descriptive and analytical historical perspective of the profession of social work, of social problems, and of the social welfare system. This course will help you if you are considering this major.

Intro to Sociology  
(COLLEGE: ASU COURSE SOC 101)  
Learn about the fundamentals of sociology, organization of human groups and society, processes of interaction, and social change. You will also review scientific and humanistic approaches to the study of social groups, economy, culture and factors relating to social interaction in everyday life.

Introduction to Psychology  
(COLLEGE: ASU COURSE PSY 101)  
Major areas of theory and research in psychology. Requires participation in department-sponsored research or an educationally-equivalent alternative activity.

Introductory Ethics: A Social Issues Perspectives  
(COLLEGE: ASU COURSE SWU 183)  
Introductory exploration of ethics from a historical and multicultural perspective viewed through the lens of contemporary social issues.
Modern Social Problems
(COLLEGE: ASU COURSE SOC 241)
This course focuses on race relations, poverty, unemployment, and other current issues. Instructors may add additional content related to social problems related to research areas of their specialty.

Racial and Ethnic Relations
(COLLEGE: ASU COURSE SOC 270)
Problems of minorities in heterogeneous societies. Evaluates theories of prejudice and research dealing with discrimination, desegregation, and assimilation.

US History 1865 to present
(COLLEGE: ASU COURSE HST 110)
In this class, you will explore the impact of important legislative and judicial decisions that altered the course of the nation and attempt to understand how the post-Civil War history of the United States can be told through a lens of legal history.

US History to 1865
(COLLEGE: ASU COURSE HST 109)
Examine the interaction of diverse groups of people on the North American continent. Through the clash of cultures, both between Europeans and Natives, as well as between different groups of European colonists, this course will help you establish how and why these interactions resulted in the foundation of the American nation.

World History since 1500
(COLLEGE: ASU COURSE HST 101)
You will survey Africa, the Americas, and Eurasia focusing especially on changes in communication, communities, demography, economics, environment, politics, religion, technology, warfare, and women.
Sustainability

Careers in Sustainability
(COLLEGE: ASU COURSE SOS 231)
Prerequisite
(s): Aids in career exploration and development for School of Sustainability majors. Explores values, motivations and career options. Students learn how to approach the job search and how to communicate sustainability to employers; also how to prepare a quality résumé, cover letter, and gain a better understanding of the benefits of networking.

Introduction to Applied Mathematics for Life and Social Sciences
(COLLEGE: ASU COURSE SOS 101)
Introduces quantitative techniques as applied to problems in the life and social sciences. Includes challenges like understanding the complexities of the human genome or the implications of globalization for infectious disease, human health, and economic stability.

Special Topics, Sustainability Issues
(COLLEGE: ASU COURSE SOS 194)
This course allows students to explore special topics in Sustainability and will help students to know more about what it means to study sustainability at the college level.

Sustainability Science and Society
(COLLEGE: ASU COURSE SOS 294)
This course explores global and local sustainability topics by taking students on a virtual tour of the world through various engaging digital stories. From Phoenix to Bali case studies, this course uncovers diverse approaches used by scientists, scholars, and practitioners to study and assess human-environment interactions pertaining to sustainability challenges and solutions. Students will learn critical thinking skills that will foster better engagement with the world around them through the lens of sustainability.
**Sustainable Cities**  
(COLLEGE: ASU COURSE SOS 111)  
Introduces technological, social, and cultural principles and innovations for cities under the notion of sustainability and sustainable development within the global, regional, and local contexts.

**Sustainable World**  
(COLLEGE: ASU COURSE SOS 110)  
Introduces technological, social, and cultural principles and innovations for cities under the notion of sustainability and sustainable development within the global, regional, and local contexts.

**Systems Thinking**  
(COLLEGE: ASU COURSE SOS 220)  
Introduces systems thinking and complexity science, with an emphasis on analytical relevance for thinking about a myriad of issues involved in sustainability. Hones students’ abilities to read critically, articulate their views clearly, and think about the many systems that shape their lives.

**The Thread of Energy**  
(COLLEGE: ASU COURSE SOS 171)  
Follows the thread of energy through every aspect of our lives. Discusses the technical, social, legal, and policy contexts of all energy resources, including present and unconventional fossil fuels, nuclear power, and renewable resources. Addresses energy use throughout history, the influence of energy on quality of life, the role it plays in political strategies and environmental quality, how it shapes our neighborhoods and cities, its contribution to our personal comfort and national security, and how its importance is reflected in the worlds of business and the humanities. Its dual role is as a stand-alone introduction to energy, and as a first step to more advanced studies of energy in the natural, technical, and social sciences.
Technology

Computer Applications and Information Technology
(COLLEGE: ASU COURSE CIS 105)
Introduces business information systems from a business intelligence perspective and the uses of application software with emphasis on database and spreadsheet packages for efficient and effective problem-solving.

Creative Thinking & Design Visualization
(COLLEGE: ASU COURSE GIT 210)
Fundamental methods, concepts, and techniques of creative thinking, design visualization, and problem solving, including communication and societal influences.

Graphic Communications
(COLLEGE: ASU COURSE GIT 135)
Technologies and processes involved in the design, image generation, transmission, and industrial production of graphic information.

Intro to Information Technology
(COLLEGE: ASU COURSE IFT 100)
Project-based introduction to the key concepts, tools and devices underlying today's technologies. Introduces computer hardware, software and system architecture, the Internet, the World Wide Web and information technology ethics. Forms a foundation for future courses offered in the Information Technology major and the information technology discipline.

Principles of Programming
(COLLEGE: ASU COURSE CSE 110)
Concepts of problem-solving using an object-oriented programming language, algorithm design, structured programming, fundamental algorithms and techniques.

Principles of Programming with C++
(COLLEGE: ASU COURSE CSE 100)
Principles of problem-solving using C++, algorithm design, structured programming, fundamental algorithms and techniques, and computer systems concepts. Social and ethical responsibility.
World Languages

Elementary French I
(COLLEGE: ASU COURSE FRE 101)
Introduces the French language and culture through a variety of topics from everyday life. Focuses on the development on all four communicative: listening, speaking, reading and writing.

Elementary French II
(COLLEGE: ASU COURSE FRE 102)
Introduces the French language and culture through a variety of topics from everyday life. Focuses on the development on all four communicative: listening, speaking, reading and writing.

Elementary Romanian
(COLLEGE: ASU COURSE ROM 101)
Basic grammar with intensive drills in class and lab directed toward conversational fluency.

Elementary Spanish I
(COLLEGE: ASU COURSE SPA 101)
Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

Elementary Spanish II
(COLLEGE: ASU COURSE SPA 102)
Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

Intermediate Spanish
(COLLEGE: ASU COURSE SPA 201)
Continuation of fundamentals. Emphasizes the development of the skills of reading, listening comprehension, speaking, writing, and culture.

Intermediate French I
(COLLEGE: ASU COURSE FRE 201)
Grammar review, with emphasis on development of skills of speaking, reading, writing, and listening comprehension.
Intermediate French II
(COLLEGE: ASU COURSE FRE 202)
Continuation of grammar review with emphasis on development of skills in speaking, reading, writing, and listening comprehension.

Intermediate Romanian
(COLLEGE: ASU COURSE ROM 201)
Continuation of ROM 101. Intensive drill of fundamentals in class and lab directed toward conversational fluency.
Earned Admission

Courses created in the massive open online format, available for enrollment to all students, with focused areas of study. Credit conferred after the student is successful.
MAT 210 Brief Calculus: Calculus for Business and Economics
In this college-level brief calculus course, you will study the differential and integral calculus of elementary functions with applications. This course is ideal for students interested in business, economics, or social sciences. Topics covered in this course include limits and derivatives of algebraic, logarithmic, and exponential functions; the definite integral; analysis of graphs; optimization; applications of the derivative; and more.

MAT 265 Calculus for Engineers I: Calculus with Analytic Geometry for Science and Engineering
Topics covered in this course include limits (including those involving infinity); derivatives and rates of change; continuity; applications of the derivative; linear approximation; accumulation; antidifferentiation; definite integrals; and more. Content in this course is adaptive, allowing you to achieve mastery in a certain concept before moving on to the next. This course uses Gradarius, a calculus learning platform that personalizes your learning based on the topics you already know and the topics you still need to learn. You will also have access to individualized coaching as you move through each topic in this course.

MAT 117 College Algebra and Problem Solving
This online math course teaches the fundamentals of algebra and will prepare you for calculus courses as you progress toward your college degree. This online college algebra course equips you with the skills to effectively solve problems using algebraic reasoning. What sets this course apart from a standard algebra course is its strong emphasis on the techniques that are used to solve problems. The goal is not to simply teach you mathematical forms but to help you understand the “whys” behind how you are solving problems. Throughout this course, you will be able to participate in discussions with other students and the professor to help build your conceptual understanding of algebra. In this course, you will learn about systems of linear equations, rational functions, quadratic functions, logarithmic functions, general polynomial functions, and exponential functions.
**CIS 105: Computer Applications and Information Technology**

This course is an introductory course with a dual focus: one focus on organizations and another focus on the individuals who work for them. At the individual level, we will examine how business decision making can be improved when supporting technologies like spreadsheets are leveraged. From the organizational perspective, we will cover strategic analysis frameworks and business strategies that can be fine-tuned for competition in an increasingly digitally transformed world. Humans are inherently limited in how they might approach problem solving because of the cognitive biases we all bring to decision situations. Understanding these biases and how to confront them using the spreadsheet modeling knowledge gained in this class will change the way you face and solve problems. We will cover practical decisions you will deal with in many different personal and professional business settings. You will build models in spreadsheet software that serve to help you analyze problem situations in a completely new light.

**ENG 101 English Composition**

This introductory composition course will help you develop and express ideas effectively for a variety of personal and professional purposes, audiences, and occasions. During the course, you will complete five major written projects, maintain a writer’s journal, learn and apply a variety of concepts in the field of rhetoric and composition, and create an ePortfolio where you will showcase your work and your evolving identity as a writer.

**ENG 102 English Composition: Research and Writing**

This online writing course will help you understand discourse and research writing with the goal of creating solutions to issues within your local community. What sets this course apart is that you won’t be learning about subjects in an abstract sense; instead, you will identify local problems and research real solutions for these problems.
EA 11 Foundations for Earned Admission
This non-credit, self-paced orientation course introduces you to Earned Admission, our online learning platform, and the tools used throughout many of our courses. This course also provides you--an online student--with guidance and best practices so you will feel confident as you complete your Earned Admission Track.

CHM 114 General Chemistry for Engineers
Have you ever wondered what’s inside your mobile phone case? Why batteries aren’t lighter and have to be recharged? How different colors can be shown on your computer screen? Or why glass shatters when you hit it with a hammer? These, along with other questions of how atoms and molecules combine to make macroscopic materials with desired properties, are at the heart of countless challenges addressed by chemists and engineers every day. This course is not a standard introductory chemistry course. In this course, you will learn by doing, and you will be helped along the way with instant visual and audio feedback. The course introduces general chemistry topics and explains directly how these concepts are related to engineering. You will develop the language and chemistry skills necessary to work as an engineer in a team with chemists.

ASM 246 Human Origins
The course will take you on a fascinating journey through the scientific evidence for human evolution. Dr. Donald Johanson, the paleoanthropologist who found the famous skeleton “Lucy,” will guide you through an overview of the hominin fossil record as well as introduce you to evolutionary theory. Take advantage of this unprecedented opportunity to dive deeper into the world of paleoanthropological field research from Dr. Johanson’s perspective.
FSE 100 Introduction to Engineering: Imagine. Design. Engineer!
Do you ever think: “There has to be a better way!” Then engineering is for you! Engineering is for anyone with a passion for problem solving. This course actively introduces you to skills and tools that engineers use to solve problems while teaching you to think like an engineer. You will learn to identify opportunities, imagine new solutions to problems, model your creations, make data-driven decisions, build prototypes, and showcase your ideas that will impact the world. Taught by engineering professors and highlighting industry engineers in action, this course will equip you, as an engineer-in-training, with the skills necessary to compete in today's world of innovation.

EXW 100 Introduction to Health and Wellness
In this online health and wellness course, you will learn current concepts in exercise, health, and wellness. You will also gain valuable insight into how to maintain a healthy lifestyle for yourself. This health and wellness course focuses on the latest trends in health, nutrition, physical activity, and wellness. From stress management and sleep to overall wellbeing, we will explore personal health, health related attitudes and beliefs, and individual health behaviors.

COM 100 Introduction to Human Communication
This course is designed to introduce you to the basic concepts of human communication, processes, and environments. This course surveys communication topics related to culture, identity, organizations, and relationships. By the end of this course, you should have a fuller understanding of appropriate and effective communication based on your knowledge of theoretical concepts and their application.
**SOC 101 Introduction to Sociology**
In this online sociology class, you will learn how individuals both shape and are shaped by their communities. You will learn how individuals both actively impact and are shaped by their communities, and you will explore the formation and persistence of societies that consist of diverse groups of people. You will also gain valuable insight into the dynamics of group relationships, including how to effectively interact with others within a group. Finally, you will learn how the study of sociology applies to your daily life as well as the most pressing social events of our time.

**AST 111 Introduction to Solar Systems Astronomy**
Have you ever looked up at the night sky and marveled at the vastness and complexity of space? You are invited to take a deeper dive into the mind-blowing world of astronomy. Throughout the course, you will also take a look at nearby stars and learn about the Lowell Observatory, the Challenger Space Center, the Discovery Channel Telescope, and Meteor Crater, the largest meteor impact site in the world. Additionally, you will take a virtual tour of the Lunar Exploration Museum and the home of the Mars Space Flight Facility where scientists are using spacecraft to explore the geology of Mars.

**ECN 211 About Macroeconomic Principles**
Macroeconomics is the study of the sum of all spending, income, and productive efforts. The economic outcomes that we experience are the result of our intricate dealings with other governments, businesses, and people, both locally and globally. This course will give you insight into how economists approach and measure these big issues and questions. This first part of this course takes a look at the common household with a specific focus on how the members of a household choose their workloads and spending habits. You will also study how businesses, both large and small, make important economic decisions.

The second part of this course dives into policymaking and how these policies can either distort or enhance market outcomes. You will focus on five specific areas of economic policy: free trade, research and development & innovation, fiscal and tax, inflation and monetary, and unemployment and labor market policies.
**ECN 212 Microeconomic Principles: Decision Making Under Scarcity**

This course introduces you to microeconomics, the field of economics that studies decision-making behaviors of consumers and firms when scarcity constrain their choices. The constrained decision-making principle is a major building block of modern economics and is the central concept around which this course is built. This course will help you understand decisions that are made in the face of constraints, such as the everyday transactions you make in the marketplace. As a consumer, you must consider your overall income when making a purchase, but business managers must take into account the presence of competitors in the marketplace when deciding on the price to charge you for a product. The course focuses on consumer and producer theory, the concepts of equilibrium and efficiency and the many ways that consumers and firms interact, the concept of efficiency and how it relates to market structure, and ability to analyze the effects of policies and other forms of market distortions.

**CPP 112 National Service and American Democracy**

In this course, you will learn about civic engagement and how people like you shape the world. You will also gain insight into how you can become an active and engaged member of your own community. You will interview public service leaders, investigate local issues, and form the what, why, and how of civic engagement, which you will use to create a civic action portfolio. This course was designed through a unique partnership with Service Year Alliance and Arizona State University. This course is ideal for those looking to identify pathways to civic action, such as corps members working in their year of service, individuals who would like to get more involved in their neighborhoods and cities, or those interested in creating change in their community.
**FSE 150 Perspectives on Grand Challenges for Engineering**

This course will provide you with opportunities to explore the global challenges facing society, and to learn about how engineers are making an effort to address these challenges. It will serve as a first step to prepare you to become a well-rounded Engineer who is ready to tackle these challenges. You will hear from experts in many engineering fields talking about the National Academy of Engineering’s Grand Challenges for Engineering and their groundbreaking research that is impacting communities of all sizes across the globe. Through this course, you will be equipped with an Entrepreneurial Mindset that complements the technical engineering skill set and drives innovation. The entrepreneurial mindset focuses on exercising your curiosity about the surrounding world in order to identify opportunities, make connections, and create real value for society. This course is also an active introduction to developing an interdisciplinary systems perspective, a new way of thinking and problem solving that is important to address these challenges. Through discussions and activities, you will actively explore how engineering solutions and technologies can be affected by and impact various aspects of society including economics, politics, environment, culture, and human behavior.

**MAT 170 Precalculus**

In this college-level Precalculus course, you will prepare for calculus by focusing on quantitative reasoning and functions. You’ll develop the skills to describe the behavior and properties of linear, exponential, logarithmic, polynomial, rational, and trigonometric functions.
CSE 110 Programming for Everyone: Introduction to Programming
This course is focused on learning by doing in an interactive, minimally technical way; no prior programming experience is needed. You will learn about the operation and capabilities of computers; algorithmic problem-solving; debugging programs and automating basic processes; and how to write basic programs using modern programming languages. You’ll use innovative interactive web technologies, enabling you to write and execute code, view the inner workings of the computer as it processes instructions, and visualize the fundamentals of programming. The first half of this course uses the approachable Python programming language to teach fundamental programming principles, then switches to the Java language to develop skills in one of the most popular programming languages in the world. Programming projects are based on real-world problems, and automated tools provide you with immediate feedback, which is then augmented by style and structure feedback from expert instructors.

CEE 181 Technological, Social, and Sustainable Systems
Understand the impact of technology on sustainability and society, using relevant historical examples and current issues in the news, and gain insight on the cultural frameworks within which ideas such as sustainability and different technologies are understood and evolve.

You’ll also explore emerging technologies from the Industrial Revolution through present day, leading to a future that will be complex and challenging, and in many ways look like science fiction.
HST 102 Western Civilization: Ancient and Medieval Europe
This course will take you on an exploration of the beginnings and development of Western societies from the Ancient World through the Middle Ages. This first year online history course will take you on a fascinating journey through the history of Europe and the Mediterranean from ancient times through 1500 AD. You will learn about a number of cultures and periods, including: Egypt and Mesopotamia, Greece, Rome, Judaism, The Byzantine Empire, The Rise of Islam, and Medieval Europe.
Open Scale Courses and Pathways

Massive open online courses offered for credit with the intent to provide accessible learning for credit to all available populations. These courses are designed to support large amounts of students while maintaining rigor and learning at high levels.
MicroMasters (edX): Supply Chain Management, MS:
The MIT Micromasters in Supply Chain Management folds directly into our low cost MS in Supply Chain Management offering from WPC. Take 12 credits in SCM through MIT for $1080, and then finish your graduate degree in Supply Chain through W. P. Carey School of Business for $18000.

The Global Business Leadership & Management MicroMasters program from the prestigious Thunderbird School of Global Management at Arizona State University offers a highly specialized global management education that will open pathways to leadership roles in multinational corporations as well as in non-governmental organizations. Through completion of the program, students learn how to identify risks and opportunities in global business settings and acquire strategies for mastering interpersonal encounters in multicultural environments through effective communication, people management, and marketing skills. Students take three 3-credit courses to complete the Thunderbird Global Business Leadership & Management (GBLM) MicroMasters program certificate. Certificate credits can be applied toward an accredited master degree— the Master of Applied Leadership & Management.
**MasterTrack Certificate (Coursera): Big Data:**
Students learn to apply mathematical theory and decision making techniques that are vital to big data analysis, classification, clustering, and association rule mining through real-world projects designed by faculty from Arizona State University. By committing to online study for 4-6 months, they can earn the Big Data MasterTrack Certificate that will be a pathway to both the digital immersion or immersion Master of Computer Science. MasterTrackTM in Artificial Intelligence and Machine Learning, Software Engineering and CyberSecurity will launch in 2020.

**STEM Record of Achievement (Coursera): Fulton School of Engineering:**
The STEM Record of Achievement allows high school students the unique opportunity to explore STEM fields and accelerate completion of an engineering degree by enrolling in and completing four (4) open scale college courses. The STEM Record of Achievement feeds into the Engineering Fast Track program and 3+1=2 program. Students sign up at hs.ea.asu.edu and enroll in MAT 265, CHM 114, FSE 100 and CSE 110. Students select “Pursue Credit” to take the course for academic credit ($25 fee). Students complete the four (4) courses with a 3.0 GPA or better, and select “Get Credit” for each course ($400 per course). Students receive an official transcript with their academic credit and the STEM Record of Achievement.
Continuing and Professional Education
Continuing and Professional Education

Non-credit offerings that provide non-academic content to enable learners to understand specific content/subject areas. CPE Certificates can be for professional learning (i.e. Project Management) or for human interest learning (i.e. Mindfulness).
ASU Infinity

Content designed to help learners improve competency in student behaviors and life behaviors. The goal of this coursework is to create master learners who can succeed in online content while learning skills (like time management) that can help positively influence their lives.
Time Management

Professional Networking

Keeping Yourself Safe Online

Effective Workplace Communication

Public Speaking
Self-Care and Well-Being

SMART Goals

Digital Literacy: Academic Integrity

Information Literacy: Evaluating Your Sources

Personal Development: Growth Mindset
ASU Online Course List
BMD 501 Intro Biomedical Informatics

Overview of the field of biomedical informatics for use of computers and information in healthcare and the biomedical sciences.

BMD 502 Foundations BMI Methods I

First semester of a two-semester course surveying the methods and theories underlying the field of biomedical informatics.

BMD 502 Foundations BMI Methods I

First semester of a two-semester course surveying the methods and theories underlying the field of biomedical informatics.

BMD 510 Curr Perspectives BMD Diagnost

Seminar course using external speakers who review the current state of the biomedical diagnostics industry in terms of technology, regulation or legal issues.

BMD 510 Curr Perspectives BMD Diagnost

Seminar course using external speakers who review the current state of the biomedical diagnostics industry in terms of technology, regulation or legal issues.
BMD 511 Health Econ Policy Payment Mdl

Economics provides a framework to understand and predict human decision making under scarcity, uncertainty and imperfect information. Examines concepts central to health care economics and their application to important decisions made by patients, families, practitioners, administrators and policy makers. Uses an individual family's scenario through a progressive case study to evaluate how incentives and information affect the health and health care of each family member. Each meeting integrates basic economic principles, existing facts and knowledge from economic research, and individual perspectives and experience regarding how these concepts apply to health care policy.

BMD 511 Health Econ Policy Payment Mdl

Economics provides a framework to understand and predict human decision making under scarcity, uncertainty and imperfect information. Examines concepts central to health care economics and their application to important decisions made by patients, families, practitioners, administrators and policy makers. Uses an individual family's scenario through a progressive case study to evaluate how incentives and information affect the health and health care of each family member. Each meeting integrates basic economic principles, existing facts and knowledge from economic research, and individual perspectives and experience regarding how these concepts apply to health care policy.

BMD 513 Prin Diag Tech Immunoassays

Provides a detailed understanding of the theory and applications of advanced diagnostic assay systems and devices. Students gain knowledge in immunoassay design and validation with particular attention to the manipulation of the immune system for disease recognition. This module assumes no former knowledge of immunoassays, but some knowledge would be advantageous.
BMD 513 Prin Diag Tech Immunoassays

Provides a detailed understanding of the theory and applications of advanced diagnostic assay systems and devices. Students gain knowledge in immunoassay design and validation with particular attention to the manipulation of the immune system for disease recognition. This module assumes no former knowledge of immunoassays, but some knowledge would be advantageous.

BMD 514 Molecular Diagnostics

Survey course covering topics such as multiple types of analytes including DNA, RNA and protein; a multitude of disease application areas; major molecular diagnostic platforms; development of molecular diagnostics tests; sample preparation; and future prospects for molecular diagnostics.

BMD 550 Translational Bioinformatics

Provides an introduction to bioinformatics methods and applications used in the field of translational medical research. Topics include bioinformatics data acquisition and management, analysis methodologies, and applications.

BMD 550 Translational Bioinformatics

Provides an introduction to bioinformatics methods and applications used in the field of translational medical research. Topics include bioinformatics data acquisition and management, analysis methodologies, and applications.

BMD 592 Research
Biomedical Diagnostics

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.
BMD 592 Research
Biomedical Diagnostics
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

BMD 593 Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

BMD 593 Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

BMD 598 Special Topics
Regulation of Med. Diagnostics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMD 598 Special Topics
Current Perspectives in Biomedical Diagnostics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMD 598 Special Topics
Biomedical Device Design Principles: Hands-on Work
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
BMD 598 Special Topics
Prin_Diag_Tech_2_Immunology
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

BMD 598 Special Topics
Molecular Diagnostics
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

BMD 598 Special Topics
Biomedical Device Design
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

BMD 667 FDA Regulation
Examines the regulation of drugs, medical devices, and
biologics (e.g. vaccines) by the Food and Drug Administration.

BMD 667 Regulation Medical Diagnostics
Examines the regulation of drugs, medical devices, and
biologics (e.g. vaccines) by the Food and Drug Administration.
BMI 201 Intro to Clinical Informatics

Introduces existing and future applications of biomedical informatics. Overview of history and present state of the field. Provides an introduction to biomedical informatics techniques and applications used in clinical environments. Includes searching and organizing free text information, decision analysis techniques and clinical decision support systems, and clinical applications including physician order entry used in electronic medical records. Also covers challenges in clinical informatics, including sociotechnical and cognitive issues in implementation and use.

BMI 515 App Biostats Med & Informatics

Comprehensive treatment of the statistical methods used most often to analyze quantitative data collected in medical and biomedical informatics studies, including clinical trials, epidemiologic studies, studies of the accuracy and performance of screening and diagnostic tests, and studies to develop predictive models. Students learn to use SAS statistical software to analyze biomedical data.
BMI 515 App Biostats Med & Informatics

Comprehensive treatment of the statistical methods used most often to analyze quantitative data collected in medical and biomedical informatics studies, including clinical trials, epidemiologic studies, studies of the accuracy and performance of screening and diagnostic tests, and studies to develop predictive models. Students learn to use SAS statistical software to analyze biomedical data.

BMI 517 Biostats w/Compu Applications

Covers the use of computation as a tool for biostatistical data analysis, especially for research in the field of biomedical informatics. Major topics include linear and nonlinear regression, dimension reduction techniques and multiple comparisons. Time permitting, covers the basics of DNA and RNA sequencing and data analysis. Students use the R statistical programming language to display and analyze data, and to evaluate statistical procedures and algorithms.

BMI 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

BMI 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

BMI 598 Special Topics
Entrepreneur for Biomedicine

Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
BMI 598 Special Topics
Pop Hlth Mgt and Analytics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Knowledge Mgt & Engineering
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Imaging in Diagnostics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Telemedicine
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Biostats w/Computational Appl
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Biomedical Commercialization
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
BMI 598 Special Topics
Entrepreneur for Biomedicine
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Telemedicine
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

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BMI 598 Special Topics
Knowledge Mgt & Engineering
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMI 598 Special Topics
Pop Hlth Mgt and Analytics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
BMI 601 Health Informatics

Offers an overview of the field of health informatics. Combines perspectives from medicine and computer science for use of computers and information in health care and the health sciences. Includes an overview of health information literacy and data standards. Covers specific applications and general methodology in health informatics using current topics in the field. Discusses evaluations of health systems.

BMI 603 Health Informatics Database

Thorough coverage of the foundations of database systems and their specific use and modeling in healthcare and biomedical environments. Students learn through hands-on experience with the modeling and implementation of health-related databases using the relational approach. Topics include an overview of database models and architecture, database design, SQL, XML, and data warehousing as they are applied in clinical domains. Students are encouraged to explore database-related topics of their own, choosing ones that are relevant to a bioinformatics or clinical domain.
BMI 603 Health Informatics Database

Thorough coverage of the foundations of database systems and their specific use and modeling in healthcare and biomedical environments. Students learn through hands-on experience with the modeling and implementation of health-related databases using the relational approach. Topics include an overview of database models and architecture, database design, SQL, XML, and data warehousing as they are applied in clinical domains. Students are encouraged to explore database-related topics of their own, choosing ones that are relevant to a bioinformatics or clinical domain.

BMI 608 Project Mgmt Interdis Teams

Introduces students to the health care team and explores tools and techniques for establishing effective interdisciplinary teams in a health care setting, emphasizing collaborative clinical decision-making and patient management. By working in small teams, the course puts into practice these techniques, allowing students to collaborate with other health professionals to solve specific problems, provide services, or develop new understandings. Also covers the concepts, skills, tools, and techniques involved in the management of information system projects, providing an introduction to the established discipline of project management, with a specific focus on how they apply to managing information systems for a biomedical setting.

BMI 608 Project Mgmt Interdis Teams

Introduces students to the health care team and explores tools and techniques for establishing effective interdisciplinary teams in a health care setting, emphasizing collaborative clinical decision-making and patient management. By working in small teams, the course puts into practice these techniques, allowing students to collaborate with other health professionals to solve specific problems, provide services, or develop new understandings. Also covers the concepts, skills, tools, and techniques involved in the management of information system projects, providing an introduction to the established discipline of project management, with a specific
focus on how they apply to managing information systems for a biomedical setting.

BMI 613 Workflow Analysis & Redesign

Provides an overview of workflow analysis and process redesign and their use in quality improvement activities, including specification. Uses case examples to highlight key concepts and measurement concepts and covers techniques. Includes the links of systems engineering to fundamentals of decision theory, statistics and optimization. Includes discussion of current successful techniques for systems engineering. System engineering seeks to enable the successful design, implementation, deployment and maintenance of successful systems. Emphasizes gathering and analysis of customer needs for the specification and documentation of required functionality early in the system’s lifecycle.

BMI 614 Curr Persp Health Informatics

Seminar course using external speakers to discuss and review the current state of the health informatics field.

BMI 614 Curr Persp Health Informatics

Seminar course using external speakers to discuss and review the current state of the health informatics field.
BMI 615 Human Factors Eng Biomed App

Fundamental principles of human-computer interaction and human factors and how to apply them to real-world problems through class projects, homework, and real-world design. Focuses on learning why user-friendly interfaces can greatly improve work productivity and enhance the quality of healthcare without radically changing the underlying technology.

BMI 616 Clinical Decision Support

Focuses on the major problems of human decision making in health care including causes of errors, decreased quality and increased costs. Explores the role of information technology, primarily through computer-based clinical decision support (CDS), to address these problems. Explores key methods used to provide CDS, the capabilities and limitations of current approaches, and the challenges for managing and updating the knowledge needed to deliver CDS in an enterprise setting. Origins of evidence-based decision making and policy formulation; how to use the tools and approaches that have been developed to support evidence-based decision making and policy formulation; and the history and evolution of systematic review and meta-analysis as a tool to inform decisions and policies based on evidence. Students gain hands-on experience by conducting a systematic review and a meta-analysis and using the results to draw conclusions and formulate health policy.
BMI 616 Clinical Decision Support

Focuses on the major problems of human decision making in health care including causes of errors, decreased quality and increased costs. Explores the role of information technology, primarily through computer-based clinical decision support (CDS), to address these problems. Explores key methods used to provide CDS, the capabilities and limitations of current approaches, and the challenges for managing and updating the knowledge needed to deliver CDS in an enterprise setting. Origins of evidence-based decision making and policy formulation; how to use the tools and approaches that have been developed to support evidence-based decision making and policy formulation; and the history and evolution of systematic review and meta-analysis as a tool to inform decisions and policies based on evidence. Students gain hands-on experience by conducting a systematic review and a meta-analysis and using the results to draw conclusions and formulate health policy.

CHS 100 Intro to Health Solutions

Addresses the roles, responsibilities and scope of practice for various health professions. Explores interprofessionalism, ethical care and current issues in health and health care through the use of case studies and activities.

CHS 100 Found Health & Well-Being

Addresses the knowledge, attitudes and behaviors associated with various health dimensions. Explores interprofessionalism and current issues in health and well-being.

CHS 100 Designing Your Well-Being

Addresses concepts, mindsets and practices associated with various aspects of health and well-being. Applies strategies and skills to design well-being for college, work and life.
CHS 100 Optimizing Health & Performance

Explores concepts, attitudes, research and practices associated with the optimization of health and performance. Students gain practical and foundational knowledge regarding evidence-based practice, nutrition, physical activity, executive function, strategies and cognition.

CHS 201 Intl Indigenous Health

This course aims to develop student’s understanding of core concepts in the health and well-being of Indigenous peoples worldwide, with particular focus on the Aboriginal and Torres Strait Islander peoples in Australia and Indigenous peoples in United States (or the Americas more broadly). The course highlights the differences in distribution of disease and health disparities between Indigenous and non-Indigenous peoples and develops an understanding of underlying interrelated physical, psycho-social, cultural and other determinants of Indigenous peoples’ health. Students will be provided with examples of evidence-based research and health practice to learn about the ways in which Indigenous health and well-being can be supported.

CHS 201 Intl Indigenous Health

This course aims to develop student’s understanding of core concepts in the health and well-being of Indigenous peoples worldwide, with particular focus on the Aboriginal and Torres Strait Islander peoples in Australia and Indigenous peoples in United States (or the Americas more broadly). The course highlights the differences in distribution of disease and health disparities between Indigenous and non-Indigenous peoples and develops an understanding of underlying interrelated physical, psycho-social, cultural and other determinants of Indigenous peoples’ health. Students will be provided with examples of evidence-based research and health practice to learn about the ways in which Indigenous health and well-being can be supported.
CHS 300 The Science of Happiness

A scientific exploration into happiness and well-being by examining the most widely held principles from history, neuroscience, physiology, sociology and positive psychology. Students apply evidence-based happiness strategies, while assessing and reflecting on their own happiness and well-being from personal and professional perspectives.

CHS 300 The Science of Well-Being

A scientific exploration into lifelong well-being by examining evidence from health, history, neuroscience, physiology, sociology, positive psychology, life design and the science of happiness. Students analyze and practice skills, strategies and mindsets that facilitate self-awareness, resilience, social connections and happiness to design personal and professional well-being.

CHS 301 Epidemiology Intl Pub Health

Epidemiology and its use in public health research and practice. This course introduces students to epidemiological principles and methods. It aims to enable students to apply an epidemiological approach to the study of disease and illness, to interpret and assess the quality of evidence of a range of study designs and report on epidemiological research.
CHS 303 Health Promotion

Health Promotion is a fundamental component of any approach to public health and population health, whether it be research, policy or practice. The World Health Organization defines health promotion as the process of enabling people to increase control over, and to improve, their health. It moves beyond a focus on individual behavior towards a wide range of social and environmental interventions. (http://www.who.int/topics/health_promotion/en/ ). This course provides an overview of health promotion including examination of the social determinants of health, health literacy and foundations in health promotion. During the course students will explore the role of health promotion in addressing a range of current global health issues and their relevance to the field of public health. Students will examine contemporary perspectives on health and health promotion contributions to public health and population health responses. The course enables students to gain an understanding of how health

CHS 304 Communicable Disease

This course will introduce students to the burden of infectious or communicable disease worldwide. Students will learn about the theory of transmission modes, surveillance, outbreak investigation, current disease prevention, control and management strategies, and emerging and re-emerging infections. Key case studies covering different types of communicable diseases will be used to illustrate these important concepts. Current and future challenges in communicable disease control will be highlighted.
CHS 305 Princ Prvent & Pub Hlth Surv

Disease surveillance and population health monitoring represents one of the most important tools for public health, for early disease detection and prevention, and the monitoring and evaluation. Early detection of and rapid response to a public health threat has huge potential to save lives and costs from preventing hospitalizations and deaths. This course provides an overview of different types of surveillance systems and the sources of data that are used in such systems. Students learn to assess challenges and limitations associated with different types of public health surveillance systems and develop the skills to examine the tools and approaches that can be used to improve the effectiveness of public health surveillance systems. The course looks at principles of disease prevention more broadly. Public health prevention measures are discussed including immunization and screening, using case studies for both communicable and non-communicable diseases. The role of epidemiological and

CHS 306 Public Hlth Policy & Programs

The overall aim of this course is to enable students to develop their understanding of both public health policy and programs as a part of public health practice. Students will learn about the concept and role of policy and the key concepts, models and approaches to designing and evaluating public health programs. Case studies from multiple countries and contexts will be used as teaching material.
CHS 307 Health Leadership

The course aims to develop students understanding of different approaches to leading and managing at different levels in health services in local and international contexts to improve individual, community and population level outcomes. Students will be introduced to the common and overlapping skills and features of effective health leadership within public health agency settings requiring coordinated system-wide action through to health care management in more clinically focused patient delivery settings. Topics include management and leadership theories and models; systems perspectives and strategic thinking; influence, power and leading change; managing interprofessional teams and motivating staff; conflict management and improving health worker performance.

CHS 308 Comparative Health Systems

Principles and practice of health system analysis, the sources and utilization of information relating to health services, and frameworks for assessing health systems performance. Examines the constitutional, legal, economic, social and political environments within which health care systems operate. Compares different models of health system funding and operation. Reviews different health services organization and management, health service financing arrangements and the health workforce.
CHS 309 Globl Chron Disease Prvnt & Ctrl

This course aims to enhance students’ understanding of the major non-communicable diseases—specifically so-called “lifestyle diseases” including cardiovascular disease, cancer, type II diabetes, chronic lung disease—and the interaction between their associated lifestyle behaviors such as unhealthy diet, physical inactivity, tobacco use and alcohol use. Students will examine the concept of the epidemiological transition to provide insights into trends in the burden of lifestyle diseases and injuries globally and in developing countries. This course will help students to evaluate prevention and control approaches to lifestyle diseases, and to critique the modern social environment and lifestyle behaviors with respect to global health. Topics include: the global burden of disease, the epidemiological transition, injury prevention, health systems, global tobacco control, obesity, and global action plan on non-communicable diseases.

CHS 401 Ethics in Public Health

This course provides an overview of ethical considerations and issues pertinent to public health and health care. Students will examine ethical theories and principles, and key legal concepts, and their application to health care and public health contexts. The course enables students to identify and analyse the ethical challenges of balancing the interests of individuals and communities within a health care context which is costly, complex and increasingly globalized. While the focus is on public health ethics which includes health policy and promotion, clinical and research ethics will also be examined as integral components of contemporary, cutting-edge health care service and delivery.

CHS 494 Special Topics
Adv. Undergrad. Teach. Asst
Covers topics of immediate or special interest to a faculty member and students.
CHS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

EXW 100 Intro to Health and Wellness

Current concepts in health, exercise, and wellness. Emphasizes personal health, theories, attitudes, beliefs, and behaviors.

EXW 102 Foundations of HEHP

Designed for students who anticipate working as a health educator in clinical, governmental, worksite/corporate, research-based, or other professional settings. Students gain an understanding of the selected historical, cultural, philosophical, professional and ethical issues in the practice of health education.
EXW 102 Foundations of HEHP

Designed for students who anticipate working as a health educator in clinical, governmental, worksite/corporate, research-based, or other professional settings. Students gain an understanding of the selected historical, cultural, philosophical, professional and ethical issues in the practice of health education.

EXW 284 EXW PreInternship

Professional development course designed to help students prepare for their respective senior-year internships and post-graduate career fields, while developing and enhancing professional practice skills. Students engage in individual assessment and group learning with student peers through activities such as required readings and self assessments, career-related exploration assignments and networking. Utilizes on-campus resources, such as Career Services and the Writing Center, for support and assistance with course work and assignments. Focuses on developing long-term professional and interpersonal competencies career preparation, professional self marketing, and workplace professionalism.

EXW 284 EXW PreInternship

Professional development course designed to help students prepare for their respective senior-year internships and post-graduate career fields, while developing and enhancing professional practice skills. Students engage in individual assessment and group learning with student peers through activities such as required readings and self assessments, career-related exploration assignments and networking. Utilizes on-campus resources, such as Career Services and the Writing Center, for support and assistance with course work and assignments. Focuses on developing long-term professional and interpersonal competencies career preparation, professional self marketing, and workplace professionalism.

EXW 294 Special Topics
HIV-Substance Abuse Prevention
Covers topics of immediate or special interest to a faculty member and students.
EXW 294 Special Topics
Prevention and Preparedness
Covers topics of immediate or special interest to a faculty member and students.

EXW 302 Fundamentals of Wellness
Overview of fundamental health, exercise and wellness concepts. Emphasizes personal wellness assessment and application.

EXW 303 Human Sexuality for Health Ed
Provides preprofessional primary/secondary teachers and health education specialists with knowledge of the physiological, psychological and social aspects of human sexuality for health education. Provides content knowledge and curriculum development strategies to support educators in creating human sexuality curriculum for school and community health settings.

EXW 303 Human Sexuality for Health Ed
Provides preprofessional primary/secondary teachers and health education specialists with knowledge of the physiological, psychological and social aspects of human sexuality for health education. Provides content knowledge and curriculum development strategies to support educators in creating human sexuality curriculum for school and community health settings.
EXW 312 HIV/AIDS Prevention

Provides an introductory, nontechnical examination of the HIV/AIDS epidemic and HIV/AIDS, examining biological, social, epidemiology, prevention, history, compassion, legal issues, testing and societal implications of acquired immunodeficiency syndrome (AIDS) and HIV infection. The need for HIV/AIDS education emerges from a comprehensive model of addressing epidemics. Health professionals need to become competent in the delivery of HIV information and prevention planning.

EXW 321 Consumer Health

Provides preprofessional primary/secondary educators and community health education specialists with (1) a model for making informed consumer health-related decisions; (2) current information involving consumer related topics, emphasizing necessity of current information for making informed decisions; (3) mechanisms for continued consumer awareness.

EXW 325 Fitness for Life

Analyzes physical fitness and benefits of exercise with emphasis on application of strategies for fitness and wellness evaluation, behavior change, and lifelong program planning.

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Analyzes physical fitness and benefits of exercise with emphasis on application of strategies for fitness and wellness evaluation, behavior change, and lifelong program planning.

EXW 331 Violence Prevention

Examines violence prevention strategies and violence prevention content. Examines the literature to understand principles for use in the development of violence prevention curriculum in school and community settings.
EXW 335 Phys Activ and Fitness Concept

Topics are designed for the physical activity and health education professional and focus on application of basic exercise physiology and nutritional concepts in the design and implementation of exercise and physical activity programs to increase physical function and improve health risk factors.

EXW 340 Health Behavior Theory

Focuses on health behavior change theories and concepts that are necessary for planning, implementing and evaluating health education and health promotion programs.

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Focuses on health behavior change theories and concepts that are necessary for planning, implementing and evaluating health education and health promotion programs.
EXW 341 Injury Prevention

Explores specific strategies for injury prevention. Examines principles for the development of school and community health curriculum that address injury prevention in various areas such as home safety, fire safety, personal protection, responding to emergencies, firearm safety, motor vehicle safety, occupational safety, recreational safety, school safety and related issues.

EXW 341 Health Ed Meth Injury Prevntn

Explores specific strategies for injury prevention. Examines principles for the development of school and community health curriculum that address injury prevention in various areas such as home safety, fire safety, personal protection, responding to emergencies, firearm safety, motor vehicle safety, occupational safety, recreational safety, school safety and related issues.

EXW 344 Phys Activity in Hlth/Disease

Examines the role of physical activity and fitness in the development of morbidity and mortality throughout the human life span.

EXW 344 Phys Activity in Hlth/Disease

Examines the role of physical activity and fitness in the development of morbidity and mortality throughout the human life span.

EXW 348 Methods of Health Education

Intended for the pre-professional health educator to learn how to develop sound, effective, and appropriate presentation methods to create learning experiences that facilitate voluntary changes leading to health-enhancing behaviors. Focuses on the knowledge and skills necessary to understand learning and the diverse learner; structure the learning environment; develop appropriate behavioral learning objectives; select appropriate instructional methods; and develop quality lesson, presentation, and unit plans with sound strategies for evaluating learning.
EXW 348 Methods of Health Education

Intended for the pre-professional health educator to learn how to develop sound, effective, and appropriate presentation methods to create learning experiences that facilitate voluntary changes leading to health-enhancing behaviors. Focuses on the knowledge and skills necessary to understand learning and the diverse learner; structure the learning environment; develop appropriate behavioral learning objectives; select appropriate instructional methods; and develop quality lesson, presentation, and unit plans with sound strategies for evaluating learning.

EXW 350 Substance Abuse&Addict Behav

In depth study of the pharmacology and effects of addictive substances and the psychosocial risk factors and consequences of substance abuse.

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In depth study of the pharmacology and effects of addictive substances and the psychosocial risk factors and consequences of substance abuse.

EXW 351 Substance Abuse Prevention

Prepares preprofessional primary/secondary school and community health educators to prepare and deliver substance abuse prevention education and programming.

EXW 361 Soc Media&Marketing in Hlth Ed

Develops competence in technologies using social media that support and promote health education. Intended for preprofessional, primary/secondary teachers and community health education specialists to learn how to create and apply health-related social marketing messages and strategies to information systems that facilitate health education and health promotion.
EXW 361 Soc Media & Marketing in Health Ed

Develops competence in technologies using social media that support and promote health education. Intended for preprofessional, primary/secondary teachers and community health education specialists to learn how to create and apply health-related social marketing messages and strategies to information systems that facilitate health education and health promotion.

EXW 371 Conflict Mgmt & Mediation

Covers conflict resolution and methods of preventing, managing and resolving conflict. Prepares students to address conflict, deal effectively with difficult people and incorporate effective conflict management and mediation strategies in various interdisciplinary settings within the classroom and community.

EXW 380 Body Image and Wellness

Explores body image in American culture from physical, psychological, historical, and societal perspectives.

EXW 400 Stress Management for Wellness

Examines the stress response and management from a behavioral perspective as it pertains to individuals or groups.
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Examines the stress response and management from a behavioral perspective as it pertains to individuals or groups.

EXW 443 Emotional Hlth & Intrprsnl Rel

Explores factors associated with the development of positive emotional health and well-being. Emphasizes preprofessional primary/secondary teachers and health education specialists teaching emotional health within a school and community health setting, encouraging them to deepen their commitment to effective teaching by applying the principles of self-esteem, communication and accessing appropriate resources.

EXW 443 Emotional Hlth & Intrprsnl Rel

Explores factors associated with the development of emotional health and well being. Emphasizes pre-professional primary/secondary teachers and health education specialists teaching and promoting emotional health within a school or community setting. Encourages pre-professional primary/secondary teachers and health education specialists to deepen their commitment to effective curriculum principles related to emotional health.

EXW 443 Emotional Hlth & Intrprsnl Rel

Explores factors associated with the development of emotional health and well being. Emphasizes pre-professional primary/secondary teachers and health education specialists teaching and promoting emotional health within a school or community setting. Encourages pre-professional primary/secondary teachers and health education specialists to deepen their commitment to effective curriculum principles related to emotional health.

EXW 444 Epidemiology

Introduces epidemiological concepts and prepares the student to read, comprehend, and report epidemiological research.
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EXW 448 Foundations of School HED

Explores various special topics for the school and community health educator including the CDC’s Division of Adolescent and School Health, the School Health Index, the Health Education Curriculum Analysis Tool, and the Coordinated School Health Approach.

EXW 448 Foundations of School HED

Explores various special topics for the school and community health educator including the CDC’s Division of Adolescent and School Health, the School Health Index, the Health Education Curriculum Analysis Tool, and the Coordinated School Health Approach.

EXW 450 Soc Deter of Health and Beh

Examines the social determinants (e.g., early childhood, family, schools, worksites, built and food environments, and socio-economic status) of health and health behavior, particularly physical activity behavior and eating.

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Examines the social determinants (e.g., early childhood, family, schools, worksites, built and food environments, and socio-economic status) of health and health behavior, particularly physical activity behavior and eating.
EXW 452 Hlth Advcy in HED

Links advocacy for individual patients/consumers (patient advocacy) with advocacy for groups of patients/consumers (policy advocacy). Identifies and explores specific skills needed by community health educators, pre-professional primary/secondary health teachers and health education specialists for developing a practice of advocacy in their work. Methods, techniques and resources used in advocating in health promotion.

EXW 452 Hlth Advcy in HED

Links advocacy for individual patients/consumers (patient advocacy) with advocacy for groups of patients/consumers (policy advocacy). Identifies and explores specific skills needed by community health educators, pre-professional primary/secondary health teachers and health education specialists for developing a practice of advocacy in their work. Methods, techniques and resources used in advocating in health promotion.

EXW 454 Health Promotion Plan and Impl

Applies theory-based concepts and methods of health promotion (HP). Covers selected topics in HP across a variety of domains of health. Program planning concepts include the use of planning frameworks, needs assessments, and the use of theory in health promotion program planning. Also covers practical issues related to health promotion program implementation such as resource management and program marketing.

EXW 454 Health Promotion Plan and Impl

Applies theory-based concepts and methods of health promotion (HP). Covers selected topics in HP across a variety of domains of health. Program planning concepts include the use of planning frameworks, needs assessments, and the use of theory in health promotion program planning. Also covers practical issues related to health promotion program implementation such as resource management and program marketing.
EXW 456 Health Promotion Program Eval

Covers program evaluation concepts including how to plan an evaluation, how to analyze and interpret data, and how to report evaluation results. Students learn a basic framework for conducting a program evaluation, various research/evaluation designs, and data analysis and statistics. Topics are covered in enough detail so that the student may understand how inferences are made regarding program evaluation.

EXW 456 Health Promotion Program Eval

Covers program evaluation concepts including how to plan an evaluation, how to analyze and interpret data, and how to report evaluation results. Students learn a basic framework for conducting a program evaluation, various research/evaluation designs, and data analysis and statistics. Topics are covered in enough detail so that the student may understand how inferences are made regarding program evaluation.

EXW 466 Health Prom Mgmt and Admin

Uses a dynamic team process to build knowledge and skills for the effective administration of health promotion program proposals. Areas of emphasis are strategic planning, managing fiscal resources, demonstrating leadership, developing human resources, facilitating community partnerships, formative and summative evaluation. Aligns with specific objectives required for the Certified Health Education Specialist offered by the National Commission for Health Education Credentialing.

EXW 466 Health Prom Mgmt and Admin

Uses team and individual processes to build knowledge and skills for managing and administering health education/promotion programs. Emphasizes management perspectives, professional skill development and demonstrating leadership; performing team collaboration roles; managing human and financial program resources; and developing collaborative research. Aligned with specific competencies and objectives required for Certified Health Education Specialists (CHES) offered by the National Commission for Health Education Credentialing (NCHEC).
EXW 466 Health Prom Mgmt and Admin

Uses team and individual processes to build knowledge and skills for managing and administering health education/promotion programs. Emphasizes management perspectives, professional skill development and demonstrating leadership; performing team collaboration roles; managing human and financial program resources; and developing collaborative research. Aligned with specific competencies and objectives required for Certified Health Education Specialists (CHES) offered by the National Commission for Health Education Credentialing (NCHEC).

EXW 476 Community Health

Applies major concepts of community health. Focuses on populations, settings and social issues related to community health. Basics of epidemiology, disease prevention, and health promotion. Explores community health concepts related to organizing and building community coalitions and health programs. Also explores school health, maternal, infant and child health, minority health, and environmental influences on community health.

EXW 476 Community Health

Applies major concepts of community health. Focuses on populations, settings and social issues related to community health. Basics of epidemiology, disease prevention, and health promotion. Explores community health concepts related to organizing and building community coalitions and health programs. Also explores school health, maternal, infant and child health, minority health, and environmental influences on community health.

EXW 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.'
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Structured practical experience following a contract or plan, supervised by faculty and practitioners.

EXW 486 Applied Projects in HEHP

Provides an opportunity for a structured, applied project in the field of study or major. Requires students to develop and submit an original proposal for their applied project. Students must obtain instructor approval for the project well in advance of regular registration. During the course, students independently develop and/or implement the approved project with faculty supervision.

EXW 494 Special Topics
Applied Projects in HEHP
Covers topics of immediate or special interest to a faculty member and students.

EXW 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

HCD 210 Cultural Aspects Health

Examines how culture influences health, health care practices, barriers to health care, interactions with health care professionals, and health disparities in the U.S. Addresses the need for cultural competence among health practitioners.
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Examines how culture influences health, health care practices, barriers to health care, interactions with health care professionals, and health disparities in the U.S. Addresses the need for cultural competence among health practitioners.

HCD 300 Biostatistics

Biostatistics and its use in health and health services research. Familiarize students with statistical concepts and methods to analyze and interpret data and conceptually addresses statistical theory. Introduces SPSS software to analyze large data sets.

HCD 300 Biostatistics

Biostatistics and its use in health and health services research. Familiarizes students with statistical concepts and methods to analyze and interpret data and conceptually addresses statistical theory. Introduces Excel software to manage data and perform statistical tests.

HCD 302 Health Care Management

Broad concepts and skills of management; application of these techniques to health care organizations. Students appreciate the variability of management styles and personalities and begin to develop their own style. Solidifies concepts through the use of case studies and asynchronous discussion boards.

HCD 302 Health Care Management

Broad concepts and skills of management; application of these techniques to health care organizations. Students appreciate the variability of management styles and personalities and begin to develop their own style. Solidifies concepts through the use of case studies and asynchronous discussion boards.
HCD 303 Global Health Care Systems

Examines health care delivery systems internationally and explores contemporary issues affecting the institutions that provide health care and the people who seek health services. Covers the historical development of international health care systems, the organization and financing of systems of care, and the policy process and priority setting. Also covers current efforts at health care reform. Provides students with the necessary professional skills to be effective participants in efforts to evaluate and improve the delivery of health care nationally and internationally.

HCD 310 Health Communication

Focuses on communicating topics related to health through an examination of theoretical frameworks, communication techniques, and different technologies including ehealth and mhealth. Addresses communication through channels that promote the health of individuals and communities. Topics may include clinician to client communication, peer to peer communication, health literacy, health in the media, and effective public health communication.
HCD 310 Health Communication

Focuses on communicating topics related to health through an examination of theoretical frameworks, communication techniques, and different technologies including ehealth and mhealth. Addresses communication through channels that promote the health of individuals and communities. Topics may include clinician to client communication, peer to peer communication, health literacy, health in the media, and effective public health communication.

HCD 320 Appl Medical/HealthCare Ethics

Integrates the theory and practice of ethics within health-related disciplines and the application of bioethics by health science professionals, including health disparities.

HCD 330 Health Care Systems in US

Presents and integrates the organization, financing, and delivery of health services in the United States from the professional, organizational, community, and systems perspectives.

HCD 332 Health Care Legislation

Provides an overview of the federal/state health policy legislative process, how it is implemented in institutions, and its effect on health science professionals and delivery of services.
HCD 332 Health Care Legislation

Provides an overview of the federal/state health policy legislative process, how it is implemented in institutions, and its effect on health science professionals and delivery of services.

HCD 340 Complementary Health Care

Evaluates the major components of complementary and alternative health care models and evidenced-based recommendations related to complementary healthcare.

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Evaluates the major components of complementary and alternative health care models and evidenced-based recommendations related to complementary healthcare.

HCD 394 Special Topics
Community and Public Health
Covers topics of immediate or special interest to a faculty member and students.

HCD 394 Special Topics
Global Intensive Experience
Covers topics of immediate or special interest to a faculty member and students.

HCD 394 Special Topics
Global Intensive Experience
Covers topics of immediate or special interest to a faculty member and students.

HCD 400 Interpreting Scientific Lit

Emphasizes clinical relevance and application of searching and interpreting the literature, using case studies as examples. Applies these skills through in-class activities and through written report at the conclusion of the course. These tools ultimately assist the student with critical thinking and application of concepts to clinical scenarios. Class is held in a computer lab to facilitate class engagement.
HCD 400 Interpreting Scientific Lit

Emphasizes clinical relevance and application of searching and interpreting the literature, using case studies as examples. Applies these skills through in-class activities and through written report at the conclusion of the course. These tools ultimately assist the student with critical thinking and application of concepts to clinical scenarios. Class is held in a computer lab to facilitate class engagement.

HCD 410 Support Health Older Adults

Focuses on community and national policies and programs that affect the health of older adults, programs to improve access to healthcare as well as to improve overall health, issues related to family and professional caregiving, and future challenges related to caring for older adults.

HCD 410 Support Health Older Adults

Focuses on community and national policies and programs that affect the health of older adults, programs to improve access to healthcare as well as to improve overall health, issues related to family and professional caregiving, and future challenges related to caring for older adults.

HCD 412 Health Issues in Later Life

Focuses on health issues that primarily affect adults ages 50 years and over as related to nutrition, physical activity, environmental toxins. Focuses on exploring those factors known to promote healthy aging.

HCD 412 Health Issues in Later Life

Focuses on health issues that primarily affect adults ages 50 years and over as related to nutrition, physical activity, environmental toxins. Focuses on exploring those factors known to promote healthy aging.
HCD 432 Legal Issues in Health Care

Legal doctrines provide protection of consumers, health care providers, and health care institutions with regard to health care delivery including access and cost. Provides an overview of the legal obligation and rights of private and public stakeholders in the delivery and receipt of health care services.

HCD 432 Legal Issues in Health Care

Legal doctrines provide protection of consumers, health care providers, and health care institutions with regard to health care delivery including access and cost. Provides an overview of the legal obligation and rights of private and public stakeholders in the delivery and receipt of health care services.

HCD 501 Health Stats Tools Health Env

Provides an understanding of the statistical tools and principles of research design and methods in health behavior research in health environments. Encompasses an overview of quantitative, qualitative and mixed designs and focuses on the interpretation and communication of health behavior research through published reports and presentations. Incorporates research approaches and methodologies utilized in an array of content areas. Helps students gain a strong conceptual understanding and application of the statistical tools and research methods used to answer research questions of interest to health and health behavior researchers; it does not focus on mathematical treatments of underlying assumptions and formulae and related statistical problems sets or exercises.
HCD 501 Health Stats Tools Health Env

Provides an understanding of the statistical tools and principles of research design and methods in health behavior research in health environments. Encompasses an overview of quantitative, qualitative and mixed designs and focuses on the interpretation and communication of health behavior research through published reports and presentations. Incorporates research approaches and methodologies utilized in an array of content areas. Helps students gain a strong conceptual understanding and application of the statistical tools and research methods used to answer research questions of interest to health and health behavior researchers; it does not focus on mathematical treatments of underlying assumptions and formulae and related statistical problems sets or exercises.

HCD 501 Biostatistics & Data Management

Provides an understanding of the statistical tools and principles of research design and methods in health behavior research in health environments. Encompasses an overview of quantitative, qualitative and mixed designs and focuses on the interpretation and communication of health behavior research through published reports and presentations. Incorporates research approaches and methodologies utilized in an array of content areas. Helps students gain a strong conceptual understanding and application of the statistical tools and research methods used to answer research questions of interest to health and health behavior researchers; it does not focus on mathematical treatments of underlying assumptions and formulae and related statistical problems sets or exercises.
HCD 501 Biostatistics & Data Management

Provides an understanding of the statistical tools and principles of research design and methods in health behavior research in health environments. Encompasses an overview of quantitative, qualitative and mixed designs and focuses on the interpretation and communication of health behavior research through published reports and presentations. Incorporates research approaches and methodologies utilized in an array of content areas. Helps students gain a strong conceptual understanding and application of the statistical tools and research methods used to answer research questions of interest to health and health behavior researchers; it does not focus on mathematical treatments of underlying assumptions and formulae and related statistical problems sets or exercises.

HCD 502 Health Care Systems and Design

Introduces direct health care delivery structures and processes within and across health care settings, and their impact on the patient, family and community experience of the health care system and services. Examines the interaction among people, resources, delivery systems and built environments using perspectives, tools and strategies from multiple disciplines to evaluate strengths, gaps and opportunities for system improvements.
HCD 510 Promotion Healthy Lifestyles

Focuses on application of interventions to promote healthy lifestyles. Includes the theoretical and empirical foundations for clinical evidence for the implementation of healthy lifestyle interventions.

HCD 510 Promotion Healthy Lifestyles

Focuses on application of interventions to promote healthy lifestyles. Includes the theoretical and empirical foundations for clinical evidence for the implementation of healthy lifestyle interventions.

HCD 510 High-Value Pt-Centered Care

Evidence-based strategies for clinicians and health care administrators to implement into their workplace setting to promote healthy lifestyle behaviors and ultimately promote high-value, patient-centered care.

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Evidence-based strategies for clinicians and health care administrators to implement into their workplace setting to promote healthy lifestyle behaviors and ultimately promote high-value, patient-centered care.

HCD 511 Health Econ Policy Payment Mdl

Economics provides a framework to understand and predict human decision making under scarcity, uncertainty and imperfect information. Examines concepts central to health care economics and their application to important decisions made by patients, families, practitioners, administrators and policy makers. Uses an individual family’s scenario through a progressive case study to evaluate how incentives and information affect the health and health care of each family member. Each meeting integrates basic economic principles, existing facts and knowledge from economic research, and individual perspectives and experience regarding how these concepts apply to health care policy.
HCD 511 Health Econ Policy Payment Mdl

Economics provides a framework to understand and predict human decision making under scarcity, uncertainty and imperfect information. Examines concepts central to health care economics and their application to important decisions made by patients, families, practitioners, administrators and policy makers. Uses an individual family's scenario through a progressive case study to evaluate how incentives and information affect the health and health care of each family member. Each meeting integrates basic economic principles, existing facts and knowledge from economic research, and individual perspectives and experience regarding how these concepts apply to health care policy.

HCD 517 Economic Eval in Health Care

This course will provide students with an introduction to economic evaluation in health care, including its use as a tool to assist with government decision making. The course will focus on the concepts and the methods involved in cost-effectiveness/utility analysis. It will facilitate the development of skills required to critically appraise economic evaluations and illustrate how to apply the concepts involved to assess health interventions.

HCD 520 Health Disparities & Access

Presents minority health and health disparities concepts and practices from an applied and action-oriented perspective for clinicians and administrators in order to transform systems of inequality and increase access and quality of care for ethnic minorities and other vulnerable populations.

HCD 520 Health Disparities & Access

Presents minority health and health disparities concepts and practices from an applied and action-oriented perspective for clinicians and administrators in order to transform systems of inequality and increase access and quality of care for ethnic minorities and other vulnerable populations.
HCD 520 Population Health

Presents population health within a framework of health care delivery, public health, health promotion and prevention, health policy, and community programs and resources. Emphasizes a solutions-based perspective consistent with the Triple Aim.

HCD 520 Population Health

Presents population health within a framework of health care delivery, public health, health promotion and prevention, health policy, and community programs and resources. Emphasizes a solutions-based perspective consistent with the Triple Aim.

HCD 521 Law and Health Promotion

Analyzes clinical scenarios and case studies focused on the impact of health policy and law on health promotion strategies. Includes discussions of theoretical and empirical foundations supporting legal, ethical and economic decision making related to health promotion through law and policy.

HCD 521 Law and Health Promotion

Analyzes case studies which illustrate the impact of policy and law on health promotion strategies and health outcomes. Includes discussions of the theoretical foundations supporting legal, ethical and economic decision making related to health promotion and real-world examples of the impact of current policies.

HCD 521 Law and Health Promotion

Analyzes case studies which illustrate the impact of policy and law on health promotion strategies and health outcomes. Includes discussions of the theoretical foundations supporting legal, ethical and economic decision making related to health promotion and real-world examples of the impact of current policies.
HCD 527 Healthcare Econ & Finance Mgmt

This course combines health economics and health care financial management. There is an introduction to double entry accounting to provide a working knowledge of cash and accrual accounting, plus an analysis of balance sheets, profit and loss statements and cash flow statements. How to construct a budget in a health care environment is a core skill in this course. The health economics component of the course introduces students to important economic concepts such as opportunity cost and supplier-induced demand and illustrates how these concepts can be applied to the health care industry.

HCD 537 Comparative Health Care System

The first part of this course focuses on the principles and practice of health system analysis, the sources and utilisation of information relating to the development, organisation and operation of health services, and frameworks for assessing the performance of different health systems. Then, drawing on material from the health systems of affluent and developing countries, we examine the constitutional, legal, economic, social, and political environments within which health care systems operate and the various patterns that emerge. We review patterns of health service organisation and management: health policy development and planning; characteristics of personal, community and environmental health services and their activities; health service financing arrangements, including health insurance systems; and, the health workforce. The impact of some recent attempts at health system reform in different countries is assessed and proposals for future re-structuring are critically reviewed.

HCD 540 Sem Science Health Care Deliv

Focuses on how real-life leaders in the medical field deal with the changing environment, plan for vulnerability, and lead their organizations through these dynamic times. Discusses perspectives of how different countries deal with their health population, differentiate health from health care, and argues if health care is a right or a privilege.
HCD 540 Sem Science Health Care Deliv

Provides an introduction to the science of health care delivery, an exciting field that focuses on how to achieve the quality care that providers want to deliver and patients expect to receive. Too often quality care is compromised by inadequately designed systems of care. Provides an overview of the health care delivery system and then introduces the major components of the field.

HCD 547 Hlth Leadership Workforce Mgmt

This course critically examines a range of theories, models and approaches to leading and managing at different levels in health service organisations. It provides tools to identify and respond to management problems in the context of major changes in priorities and services in health and its workforce. Whether you come from a clinical, public health or other disciplinary background we consider how you can draw upon that understanding and your current organisational setting to strengthen your health leadership capacity and workforce management skills. Topics include: the shifting role of managers in health services; management and leadership theories and models; influence, power and management ethics; managing in resource constrained environments; diversity in health service settings; managing teams and motivating staff; conflict management and improving health worker performance; workforce planning and capacity building.
HCD 550 Capstone: Applied Project

Discusses the results from student capstone projects, done in teams, and these projects related to broad topics explored during the prior coursework in the program. Capstone projects are identified early in the master’s program in conjunction with and overseen by the degree leaders and the industry partners, and often a health care organization or health agency. These projects are worked on through the year with final written and verbal reports due in the last half of the semester.

HCD 550 Capstone: Applied Project

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HCD 557 Clinical Governance Risk Mgmt

This course provides an overview of emerging health policy with particular attention to clinical governance. The course consists of three components. The first component targets the main constituents of clinical governance, including practice design, analysis and improvement, error reporting and investigation, public accountability and open disclosure, multi-disciplinary teamwork and clinical leadership. The second component introduces the tools of clinical process redesign. These tools can help managers make practical improvements to practices in their units. The third component targets risk management by providing an overview of the kinds of risks faced by health service managers, and by outlining different views of risk (adverse effect versus opportunity capital). The course is comprised of three case studies that engage students in addressing specific but generalisable manifestations of the three components that make up the course.

HCD 567 Curr Challenges Infectious Dis

Throughout history new pathogens such as HIV, SARS and pandemic influenza have emerged to challenge human populations. This course will introduce you to the challenges of controlling or managing infectious diseases through an appreciation of key factors such as differing modes of transmission, the impact of travel and behavior on transmission, the importance of surveillance in achieving disease prevention and control, key steps in outbreak investigation and current disease control and management strategies. Dengue fever, hepatitis A virus, HIV, influenza, measles, meningococcal meningitis, rota virus, SARS and TB will be used to learn about preparing for and containing diseases with potentially catastrophic impact to the health and economic stability. This course supports you achieving a range of capabilities that you will need if you are planning to have a career in epidemiology and infectious disease control.
HCD 570 Process Engineering

Provides an overview of process engineering and the specifics of Lean Six Sigma as it applies quality improvement/process improvement in health care. The current health care system cannot deliver the necessary quality to ensure safety or consistent outcomes in predictable and controllable ways. It is essential to understand the impact of process engineering to improve the performance of health care delivery, and to understand the steps to performing a Lean Six Sigma process improvement project. This course builds on the quality improvement techniques introduced in earlier course work. Also enables students to obtain their Green Belt Certification in Lean Six Sigma.

HCD 575 Leadership/Professionalism

Integrates principles of leadership theory, innovation leadership, change leadership and systems thinking through didactic and experiential learning. Identifies characteristics of successful leaders in health and health care, develops competence and confidence in creativity and innovation, and identifies ways to implement meaningful change in the dynamic health care environment. Applies theories to case studies in health and health systems to promote critical analysis, discussion and reflection on topics that provide the framework for future coursework.
HCD 575 Leadership/Professionalism

Integrates principles of leadership theory, innovation leadership, change leadership and systems thinking through didactic and experiential learning. Identifies characteristics of successful leaders in health and health care, develops competence and confidence in creativity and innovation, and identifies ways to implement meaningful change in the dynamic health care environment. Applies theories to case studies in health and health systems to promote critical analysis, discussion and reflection on topics that provide the framework for future coursework.

HCD 577 Infection Prevention in Health

Antimicrobial resistance is an urgent global health priority. In the near future common treatable infections may become untreatable. Currently 1 out of 20 hospitalised patients contracts a health care associated infection, of which around 50% are preventable. These infections add to the functional disability and emotional stress of the patient and in some cases, lead to disabling conditions that reduce their quality of life. In addition, they contribute to increased hospital stays and added expense to the health care system. Infection prevention and control in health care settings is now of national priority endorsed by the Australian Government, Ministries of Health, the Australian Commission of Quality and Safety in Health Care, health care facility accreditation organisations, as well as internationally by the World Health Organization.
HCD 587 Infectious Disease Intel

The course will provide a grounding in epidemiological pattern recognition (epidemic, endemic, sporadic) in infectious diseases for first-outbreak responders, surveillance officers, or policy makers from medicine, allied health, public health, emergency management, law enforcement, military or others from relevant backgrounds. Case studies in risk assessment, risk mitigation, response and prevention will be studied. These will cover Ebola virus disease, MERS-CoV, avian influenza and salmonellosis; distinguishing natural from unnatural epidemics, surveillance tools, rapid intelligence and analysis methods. Data quality in resource limited settings and implications for risk assessment will be examined. Understanding of modelling and forecasting of infectious diseases based on known transmission dynamics and patterns will also be explored. Preparation of first line responders to optimise usage of infectious diseases intelligence techniques will be covered, including prioritisation of data.

HCD 591 Seminar
Creativity Innovation Ldrshp
A small class emphasizing discussion, presentations by students, and written research papers.

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A small class emphasizing discussion, presentations by students, and written research papers.

HCD 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.
HCD 592 Research
Research PART TWO
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

HCD 592 Research
Research PART ONE
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

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HCD 592 Research
Research PART TWO
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.
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Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

HCD 594 Conference and Workshop
Leadership and Professionalism
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

HCD 594 Conference and Workshop
Leading Change Health Org Sys
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

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Leadership and Professionalism
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

HCD 594 Conference and Workshop
Leading Change Health Org Sys
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

HCD 598 Special Topics
Finance and Process Engineering
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
HCD 598 Special Topics
Finance and Process Engineering
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HCD 598 Special Topics
Health Care Finance
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HCD 598 Special Topics
Health Care Issues in Paris GIE
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HEP 102 Foundations of HEHP

Designed for students who anticipate working as a health
educator in clinical, governmental, worksite/corporate,
research-based, or other professional settings. Students
gain an understanding of the selected historical, cultural,
philosophical, professional and ethical issues in the practice of
health education.
HEP 241 Hlth Ed Injury Prevntn & Prep

Unintentional injuries affect people throughout the lifespan. Examining factors that influence injury helps to determine effective education and prevention efforts. Explores strategies for preventing unintentional injuries for adults and children. Examines topics in injury prevention for the development of health promotion resources and practices in the following settings: home, sports, recreational and transportation. Also includes emergency preparedness education focused on helping people prevent and mitigate the effects of emergency/unforeseen incidents at the individual, family and community levels. Specifically, explores the CDC Crisis & Emergency Risk Communication (CERC) program as a tool for developing effective communication strategies regarding emergency situations.

HEP 303 Human Sexuality for Health Ed

Provides preprofessional primary/secondary teachers and health education specialists with knowledge of the physiological, psychological and social aspects of human sexuality for health education. Provides content knowledge and curriculum development strategies to support educators in creating human sexuality curriculum for school and community health settings.

HEP 348 Methods of Health Education

Intended for the pre-professional health educator to learn how to develop sound, effective, and appropriate presentation methods to create learning experiences that facilitate voluntary changes leading to health-enhancing behaviors. Focuses on the knowledge and skills necessary to understand learning and the diverse learner; structure the learning environment; develop appropriate behavioral learning objectives; select appropriate instructional methods; and develop quality lesson, presentation, and unit plans with sound strategies for evaluating learning.
HEP 350 Substance Abuse & Addict Behav

In depth study of the pharmacology and effects of addictive substances and the psychosocial risk factors and consequences of substance abuse.

HEP 361 Soc Media & Market for Health

Explores social marketing practices, creates health education messages and content, and develops a social media campaign for a specific health or wellness topic. Defines and applies health literacy to the development of health education messaging for diverse audiences. Explores digital storytelling as a tool to relay health information through imagery. In order to develop competencies as an informed consumer of health-related products and services, learners analyze fads and fallacies promoted through marketing and media, evaluating these in comparison with scientific evidence and recommendations.

HEP 371 Conflict & Violence Prevention

Explores conflict mediation and violence prevention interventions. Prepares students to address conflict, deal effectively with difficult people, and incorporate effective conflict management and mediation skills in various personal and professional settings. Examines and applies principles of the public health approach of violence prevention programming.

HEP 380 Body Image and Wellness

Explores body image in American culture from physical, psychological, historical, and societal perspectives.
HEP 384 Preinternship Health Ed&Promo

Professional development course designed to help students prepare for their respective senior-year internships and post-graduate career fields, while developing and enhancing professional practice skills. Students engage in individual assessment and group learning with student peers through activities such as required readings and self assessments, career-related exploration assignments and networking. Utilizes on-campus resources, such as Career Services and the Writing Center, for support and assistance with course work and assignments. Focuses on developing long-term professional and interpersonal competencies career preparation, professional self marketing, and workplace professionalism.

HEP 443 Emotional Hlth & Intrprsln Rel

Explores factors associated with the development of emotional health and well being. Emphasizes pre-professional primary/secondary teachers and health education specialists teaching and promoting emotional health within a school or community setting. Encourages pre-professional primary/secondary teachers and health education specialists to deepen their commitment to effective curriculum principles related to emotional health.

HEP 444 Epidemiology

Introduces epidemiological concepts and prepares the student to read, comprehend, and report epidemiological research.

HEP 448 Foundations of School HED

Illustrates health education in K-12 and post-secondary educational settings. Explores various resources for health education specialists, including the CDC's Division of Adolescent and School Health, the School Health Index, the Health Education Curriculum Analysis Tool, and the Coordinated School Health Approach.
HEP 452 Hlth Advocy in HED

Links advocacy for individual patients/consumers (patient advocacy) with advocacy for groups of patients/consumers (policy advocacy). Identifies and explores specific skills needed by community health educators, pre-professional primary/secondary health teachers and health education specialists for developing a practice of advocacy in their work. Methods, techniques and resources used in advocating in health promotion.

HEP 454 Health Promotion Plan and Impl

Applies theory-based concepts and methods of health promotion (HP). Covers selected topics in HP across a variety of domains of health. Program planning concepts include the use of planning frameworks, needs assessments, and the use of theory in health promotion program planning. Also covers practical issues related to health promotion program implementation such as resource management and program marketing.

HEP 456 Health Promotion Program Eval

Covers program evaluation concepts including how to plan an evaluation, how to analyze and interpret data, and how to report evaluation results. Students learn a basic framework for conducting a program evaluation, various research/evaluation designs, and data analysis and statistics. Topics are covered in enough detail so that the student may understand how inferences are made regarding program evaluation.
HEP 466 Health Prom Mgmt and Admin

Uses team and individual processes to build knowledge and skills for managing and administering health education/promotion programs. Emphasizes management perspectives, professional skill development and demonstrating leadership; performing team collaboration roles; managing human and financial program resources; and developing collaborative research. Aligned with specific competencies and objectives required for Certified Health Education Specialists (CHES) offered by the National Commission for Health Education Credentialing (NCHEC).

HEP 476 Community Health

Applies major concepts of community health. Focuses on populations, settings and social issues related to community health. Basics of epidemiology, disease prevention, and health promotion. Explores community health concepts related to organizing and building community coalitions and health programs. Also explores school health, maternal, infant and child health, minority health, and environmental influences on community health.

HEP 486 Applied Projects in HEHP

Provides an opportunity for a structured, applied project in the field of study or major. Requires students to develop and submit an original proposal for their applied project. Students must obtain instructor approval for the project well in advance of regular registration. During the course, students independently develop and/or implement the approved project with faculty supervision.

HSC 210 Cultural Aspects Health

Examines how culture influences health, healthcare practices, barriers to health care, interactions with healthcare professionals, and health disparities in the U.S. Addresses the need for cultural competence among health practitioners.
HSC 300 Complementary Healthcare

Evaluates the major components of complementary and alternative healthcare models and evidenced-based recommendations related to complementary healthcare.

HSC 300 Complementary Health Care

Evaluates the major components of complementary and alternative healthcare models and evidenced-based recommendations related to complementary healthcare.

HSC 304 Health Communication

Focuses on communicating topics related to health through an examination of theoretical frameworks, communication techniques, and different technologies including ehealth and mhealth. Addresses communication through channels that promote the health of individuals and communities. Topics may include clinician to client communication, peer to peer communication, health literacy, health in the media, and effective public health communication.

HSC 320 Appl Medical/Healthcare Ethics

Integrates the theory and practice of ethics within health-related disciplines and the application of bioethics by health science professionals, including health disparities.

HSC 330 Healthcare Systems in the US

Presents and integrates the organization, financing, and delivery of health services in the United States from the professional, organizational, community, and systems perspectives.

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Presents and integrates the organization, financing, and delivery of health services in the United States from the professional, organizational, community, and systems perspectives.
HSC 332 Healthcare Legislation

Provides an overview of the federal/state health policy legislative process, how it is implemented in institutions, and its effect on health science professionals and delivery of services.

HSC 332 Health Care Legislation

Provides an overview of the federal/state health policy legislative process, how it is implemented in institutions, and its effect on health science professionals and delivery of services.

HSC 340 Changing Health Behaviors

Comprehensive review of the theoretical bases of health behavior change. Students gain the knowledge to identify behaviors associated with optimal health and wellness and to develop theory-based intervention strategies and techniques to effectively influence behavior change.

HSC 340 Changing Health Behaviors

Comprehensive review of the theoretical bases of health behavior change. Students gain the knowledge to identify behaviors associated with optimal health and wellness and to develop theory-based intervention strategies and techniques to effectively influence behavior change.

HSC 340 Changing Health Behaviors

Comprehensive review of the theoretical bases of health behavior change. Students gain the knowledge to identify behaviors associated with optimal health and wellness and to develop theory-based intervention strategies and techniques to effectively influence behavior change.

HSC 355 Eating for Lifelong Health

Examines dietary choices throughout the life span and how they impact personal health and wellness. Prepares health and wellness team members to evaluate consumer and professional materials on dietary choices.
HSC 394 Special Topics
Health Issues in Later Life
Covers topics of immediate or special interest to a faculty member and students.

HSC 394 Special Topics
Covers topics of immediate or special interest to a faculty member and students.

HSC 394 Special Topics
Supporting Health Older Adults
Covers topics of immediate or special interest to a faculty member and students.

HSC 394 Special Topics
Changing Health Behaviors
Covers topics of immediate or special interest to a faculty member and students.

HSC 394 Special Topics
Envnmtl Hlth Iss in U.S.
Covers topics of immediate or special interest to a faculty member and students.

HSC 394 Special Topics
Health Communication
Covers topics of immediate or special interest to a faculty member and students.

HSC 394 Special Topics
Eating for Lifelong Health
Covers topics of immediate or special interest to a faculty member and students.

HSC 410 Support Health Older Adults
Focuses on community and national policies and programs that affect the health of older adults, programs to improve access to healthcare as well as to improve overall health, issues related to family and professional caregiving, and future challenges related to caring for older adults.
HSC 412 Health Issues in Later Life

Focuses on health issues that primarily affect adults ages 50 years and over as related to nutrition, physical activity, environmental toxins. Focuses on exploring those factors known to promote healthy aging.

HSC 420 Eval Health Sci Res

Investigates methods of inquiry in health sciences and techniques for critiquing and interpreting research within the context of evidence-based practice.

HSC 432 Legal Issues in Healthcare

Legal doctrines provide protection of consumers, healthcare providers, and healthcare institutions with regard to healthcare delivery including access and cost. Provides an overview of the legal obligation and rights of private and public stakeholders in the delivery and receipt of healthcare services.

HSC 432 Legal Issues in Health Care

Legal doctrines provide protection of consumers, health care providers, and health care institutions with regard to health care delivery including access and cost. Provides an overview of the legal obligation and rights of private and public stakeholders in the delivery and receipt of health care services.

HSC 435 Environmental Health

Environmental health designed to address public health issues.

HSC 440 Health Coaching

Health coaching techniques and skills for health promotion professionals with emphasis on the practical application of brief intervention and motivational interviewing skills to promote healthy lifestyle changes.
HSC 440 Health Coaching

Health coaching techniques and skills for health promotion professionals with emphasis on the practical application of brief intervention and motivational interviewing skills to promote healthy lifestyle changes.

HSC 441 Health Coaching Techniques

Complements previously learned theory, skills and techniques related to guiding groups and individuals through meaningful lifestyle changes by emphasizing the use of evidence-based coaching and behavioral practices. Teaches, practices and compares and contrasts diverse coaching methodologies. Emphasizes motivational interviewing techniques and the application to different populations. Students acquire and work with clients using learned health coaching techniques and develop knowledge and skills for working with people with chronic disease who require lifestyle management strategies to improve their conditions. Coaching partners and program faculty provide feedback regarding student’s performance and students complete self-assessments for course completion. Mentor coaching sessions delivered instructor to provide evaluation and feedback on how to improve coaching skills.

HSC 441 Health Coaching Techniques

Complements previously learned theory, skills and techniques related to guiding groups and individuals through meaningful lifestyle changes by emphasizing the use of evidence-based coaching and behavioral practices. Teaches, practices and compares and contrasts diverse coaching methodologies. Emphasizes motivational interviewing techniques and the application to different populations. Students acquire and work with clients using learned health coaching techniques and develop knowledge and skills for working with people with chronic disease who require lifestyle management strategies to improve their conditions. Coaching partners and program faculty provide feedback regarding student’s performance and students complete self-assessments for course completion. Mentor coaching sessions delivered instructor to provide evaluation and feedback on how to improve coaching skills.
HSC 441 Health Coaching Techniques

Complements previously learned coaching theory, skills and techniques related to guiding individuals and groups through meaningful lifestyle changes by emphasizing the use of evidence-based coaching approaches. Using a mentor, self-assessment and peer feedback model, students practice, compare and contrast diverse coaching methodologies emphasizing motivational interviewing techniques and cultivating their coaching voice. Students are assigned coaching clients, schedule coaching sessions, follow-up with clients, practice professional boundaries setting, become acquainted with ethical issues and referral processes, and validate their knowledge and skills when working with people with chronic disease who require lifestyle management strategies to improve their conditions. Program faculty provide mentorship and feedback regarding student’s coaching performance.

IBC 410 Behavioral & Mental Disorders

Common co-occurring mental and behavioral health issues related to patients’ chronic medical conditions and evidence-based assessment strategies to address behavioral health needs in primary care and other medical settings.

IBC 590 Reading and Conference
Professional Writing Skills
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

IBC 598 Special Topics
Chronic Pain & Opioid Misuse
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
IBC 598 Special Topics
Motivational Interv Behav Care
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

IBC 601 Models of Integrated Primary C

Provides an overview of the primary care environment as well
as current models of integrated primary behavioral health care.
Reviews and critiques models of health care based on their
success in impacted patient health outcomes and improving
physician satisfaction, along with fiscal and care delivery
systems for each.

IBC 602 Healthcare Statistics

Provides an overview of contemporary issues in health
statistics and develops student proficiency in completing
hands-on statistical analyses using Microsoft Excel. Develops
proficiency in using Excel to manage data analyses as
an ongoing tool to collect and analyze clinical and cost-
effectiveness data in primary care and related healthcare
settings.
IBC 604 Clinical Med/Pathophysiology

Overview of each of the main systems within the human body. Addresses the major diseases (symptoms, diagnosis, and medical treatments) within each system. Students learn appropriate medical terminology for symptoms, diseases, treatments, and medical tests so they can communicate effectively with medical practitioners (nurses and physicians). Content is equivalent to pathophysiology training in an RN program. Also addresses the role of behavioral care providers in medical settings; design and implementation of psychoeducational programs in primary care; stress management techniques for use in medical settings; chronic pain management; identification and treatment of somatization disorder; increasing compliance in noncompliant patients; alternative/complementary medicine; overview of nutrition; and the effects of exercise and nutrition on prevention and treatment of diseases.

IBC 608 Psychopharmacology Behav Care

Provides overview of psychopharmacology to equip the behavioral care provider with the understanding of psychotropic medications necessary to make prescription recommendations to primary care physicians and to participate in medication management for patients being prescribed psychotropics. Basic principles of pharmacology in general, including pharmacokinetics, pharmacodynamics, medication development and the FDA approval process, interaction effects, drug company marketing strategies, appropriate and inappropriate medication usage, over-medication, and off-label medication use. Pharmacokinetics and pharmacodynamics in special populations (children, the elderly, and patients with co-morbid medical and psychological conditions). The Biodyne protocol for medication management, with emphasis on determining which psychological disorders are likely to be medication responsive. Major classifications of psychotropic medications: stimulants, antidepressants, anxiolytics, antipsychotics, mood.
IBC 608 Psychopharmacology Behav Care

Provides overview of psychopharmacology to equip the behavioral care provider with the understanding of psychotropic medications necessary to make prescription recommendations to primary care physicians and to participate in medication management for patients being prescribed psychotropics. Basic principles of pharmacology in general, including pharmacokinetics, pharmacodynamics, medication development and the FDA approval process, interaction effects, drug company marketing strategies, appropriate and inappropriate medication usage, over-medication, and off-label medication use. Reviews pharmacokinetics and pharmacodynamics in special populations (children, the elderly, and patients with co-morbid medical and psychological conditions).

IBC 609 Clinical Neuropathophysiology

Presents overview of each of the basic neuroanatomy, neurophysiology, and a focus on the manifestations of neurophysiological dysfunction across the life span for Doctor of Behavioral Health (DBH) program behavioral clinicians. Covers the basic human brain anatomy, neurophysiological processes, development, and maturation. Using case studies, presents and discusses evidence-based support for theories of psychiatric disorders and neuropsychopathology. Incorporates evidence-based research findings on the role of genetics, neurophysiological adaptation, epidemiological and societal influences in order to develop understanding of disruptions in normal neurophysiological functioning.
IBC 610 Behav & Psych Assess Prim Care

Presents a comprehensive model of behavioral and psychological assessment for behavioral health clinicians in primary care and related medical settings. Provides behavioral health consultants with the necessary knowledge base and skills to develop an appropriate assessment and treatment plan for a variety of commonly seen complaints in primary care. Places attention on the assessment of both psychiatric and behavioral complaints across the lifespan. Students become familiar with both structured interview and empirically support quantitative measures consistently utilized to enhance our understanding of the presenting complaint.

IBC 611 Population-Based Behv Hlth Mgt

Overview epidemiology for health care followed by population-based approaches to behavioral intervention. Epidemiology includes concept of populations; descriptions and definitions of health and disease; measurement of health (measures, morbidity, mortality and health); designs for studying the health of populations and standardization of population health measures. Population-based management includes definitions of medical management; planning health care for populations and population health outcomes; quality of care and economic analysis of population-based interventions; adjunctive treatments as a core component of population-based interventions. Also, advanced application of population-based behavioral interventions with a focus on design, measures, analysis, results and discussion of current approaches. Includes predictive modeling methods for defining populations; interventions focusing on stepped-care approaches; engagement strategies, interventions, measurement, and follow-up.

IBC 613 Cognitive/Affective Bases Hlth

Provides an overview of cognitive and affective theories and their intersection with health and health behavior change among individuals and communities. Covers topics including (but not limited to): Health Belief Model, self-efficacy, attribution theory, social-cognitive theory, and the transtheoretical model of change.
IBC 614 Quality & Perf. Measure, Imprv

Overview of health care quality management, emerging models of health care performance measurement, and models of pay for performance incentives in health care designed to reward providers for attaining quality of care goals. Prepares behavioral clinicians to provide services that are consistent with best practices in quality management and performance measurement in health care and to provide care that is consistent with performance incentive programs that are present or on the horizon. A key characteristic of health care reform is increased focus on provider quality of care, accountability for quality via performance measurement, and aligning provider incentives to meet national and regional quality of care performance targets.

IBC 615 Innov. Techn. in Behav. Health

Provides a quick overview and answers to basic questions related to both online therapy and telemental health. Gives a downloadable audio recording (MP3) and access to the accompanying video clips that augment a rich sampling of pages extracted from our other coursework. As a composite, this experience introduces our multi-modal learning environment and, more importantly, gives an idea of the issues involved with establishing an online or otherwise remote practice.

IBC 620 Psychosomatic Illnes: Diag & T

Teaches how to successfully diagnose and treat physical illness caused by various forms of psychosocial stress (psychophysiologic disorders, PPD). Because patients are often unaware of the nature or degree of stresses that are responsible for their illness, places emphasis on learning how to detect and use clues that patients provide to develop a more complete understanding of the struggles than they are able to perceive for themselves. Focuses on selecting, assessing and treating a patient known to the student who has medically unexplained physical symptoms.
IBC 624 Integ Behav Hlth Care Child Ad

Integrates developmental psychology with pediatric psychology in order to prepare behavioral clinicians to provide screening, assessment, and intervention for children and adolescents in primary care and other medical settings. Presents an overview of developmental stages with an emphasis on critical tasks, while contrasting normal versus abnormal development. Develops societal, familial, and cultural influences.

IBC 626 Behavioral Health Management

Presents an introduction to the roles and responsibilities of supervisor/manager in a health care organization. Provides behavioral health professionals moving into management with the necessary knowledge base and skills to be an entry-level manager and focuses on the further knowledge acquisition needed to become an experienced, effective manager and leader. In addition, discusses the larger context in which healthcare businesses operate--health care reform, regulations and technological changes. Participants take time to look at personal characteristics, interpersonal styles and presentation that affect how one is perceived and responded to in an organization. Too often we have observed individuals with high-level clinical skills moving into management without the requisite skills and understanding of issues, restricting their ability to be successful.

IBC 634 Strategies & Techn for Behv

Examines and discusses the theoretical and applied health-related research changing nutrition, smoking and physical activity behaviors in clinical practice.
IBC 640 Family Couples in Primary Care

Explores the systemic dimensions of health care delivery that are relevant to working with families and couples in primary care. Students study models from family therapy and medical family therapy that address family dynamics associated with the management of health and illness, the progression of chronic diseases, and other medical conditions. Reviews strategies for adapting family systemic approaches to provide patient- and family-centered health care in a primary care setting.

IBC 650 Veterans Health

Provides an introduction to the military and veteran culture and the integrated health care needs and management concerns related to this unique population.

IBC 660 Healthcare Legal Ethcl & Prof

Integrate three key areas of healthcare ethics, law, and professional issues for the Doctor of Behavioral Health (DBH) clinician in primary care: (1) the code of ethics for psychologists; (2) legal and ethical issues in medicine; and (3) technological issues and the behavioral health provider.

IBC 670 IBH Interv for Sub Use Disord

Focuses on the theoretical foundations, research and strategies for identifying, intervening and/or referring patients in primary care and other healthcare settings that present with substance use disorders or problem use. Provides detailed information about the clinical model of SBIRT (Screening, Brief Intervention, and Referral to Treatment), along with strategies for implementing sustainable business models for SBIRT in healthcare environments.

IBC 680 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
IBC 684 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

IBC 690 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

IBC 691 Seminar
Integrated Behav Geriatrics
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Models Integrated Primary Care
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Pediatric Srvc in Primary Care
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Brief Interventions in Primary
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Healthcare Information Mgmt
A small class emphasizing discussion, presentations by students, and written research papers.
IBC 691 Seminar
Cost Offset & ROI
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Leadership in Healthcare
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Veterans Health
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Financial Management in Health
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Effective Consultation Behav
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Family and Couples
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 691 Seminar
Global Integrated Health
A small class emphasizing discussion, presentations by students, and written research papers.

IBC 701 Models of Integrated Primary C

Provides an overview of the primary care environment as well as current models of integrated primary behavioral health care. Reviews and critiques models of health care based on their success in impacted patient health outcomes and improving physician satisfaction, along with fiscal and care delivery systems for each.
IBC 704 Evidence-Based Behav Inter I

Covers the basic principles of the Biodyne Model, which are applicable to all behavioral health cases, both in outpatient mental health settings and in integrated care settings. Core knowledge forms the basis for success as a behavioral care provider in integrated medical settings. Includes common psychotherapist mistakes, evidence-based treatment, basics of the Biodyne Model, survey of integrated care approaches, defense mechanisms, case conceptualization strategies for maximum efficiency, and when to refer a patient for specialty care. Presents in detail common conditions (anxiety and depression), with a focus on how these conditions can be subcategorized for maximum treatment efficiency. Emphasizes the development of comprehensive treatment plans (including psychotropic medications, group programs, and other modalities). Presents didactic material in the context of actual cases. Strong focus on case examples, both illustrative cases provided by the instructor and the students’ cases.

IBC 706 EVB Interventions II:Adv Skill

Cover advanced principles of evidence-based integrated behavioral care in primary care and other medical settings. Focuses on both advanced behavioral interventions theory and practice and more complex diagnostic groups and related interventions.
IBC 712 Population-Based Behv Hlth Mgt

Overview epidemiology for health care followed by population-based approaches to behavioral intervention. Epidemiology includes concept of populations; descriptions and definitions of health and disease; measurement of health (measures, morbidity, mortality and health); designs for studying the health of populations and standardization of population health measures. Population-based management includes definitions of medical management; planning health care for populations and population health outcomes; quality of care and economic analysis of population-based interventions; adjunctive treatments as a core component of population-based interventions. Also, advanced application of population-based behavioral interventions with a focus on design, measures, analysis, results and discussion of current approaches. Includes predictive modeling methods for defining populations; interventions focusing on stepped-care approaches; engagement strategies, interventions, measurement, and follow-up.

IBC 714 Quality & Perf. Measure, Improv

Overview of healthcare quality management, emerging models of healthcare performance measurement, and models of pay for performance incentives in healthcare designed to reward providers for attaining quality of care goals. Prepares behavioral clinicians to provide services that are consistent with best practices in quality management and performance measurement in healthcare and to provide care that is consistent with performance incentive programs that are present or on the horizon. A key characteristic of healthcare reform is increased focus on provider quality of care, accountability for quality via performance measurement, and aligning provider incentives to meet national and regional quality of care performance targets.
IBC 718 Healthcare Syst:Org, Del, Econ

Provides an overview of the U.S. healthcare system with a focus on economics and policy. Primary goals of the course are to enable students to recognize the relevance of economics to healthcare and to apply economic principles to better understand health-related issues; understand the U.S. healthcare delivery system in the context of social, policy, and economic factors; evaluate the evolving nature of healthcare reform initiatives and their implications for clinical practice, financing, research and policy; analyze public healthcare policy from an economic perspective. Students also focus on behavioral healthcare economics and policy and the economics of behavioral health services in medical settings. Students also understand the medical cost offset effect, including economic benefits of behavioral interventions for co-morbid medical and behavioral conditions, measurement of medical cost-offset, and cost-offset for psychopharmacology and specific behavioral conditions.

IBC 720 Behavioral Health Entrepreneur

Provides an introduction to the essential entrepreneurship skills for the behavioral healthcare clinician. Focuses on entrepreneurial skills designed to prepare the behavioral clinician to start a new business venture or revitalize an existing organization or business, to meet the needs of the evolving healthcare system and marketplace.
IBC 724 Behavioral Health Management

Presents an introduction to the roles and responsibilities of supervisor/manager in a healthcare organization. Provides behavioral health professionals moving into management with the necessary knowledge base and skills to be an entry-level manager and focuses on the further knowledge acquisition needed to become an experienced, effective manager and leader. In addition, discusses the larger context in which healthcare businesses operate--healthcare reform, regulations and technological changes. Participants take time to look at personal characteristics, interpersonal styles and presentation that affect how one is perceived and responded to in an organization. Too often we have observed individuals with high-level clinical skills moving into management without the requisite skills and understanding of issues, restricting their ability to be successful.

IBC 725 Effect Consult Integrated HC

Prepares students to function as effective consultants in integrated care settings. Effective consultation includes the ability to engage, educate, inform, persuade and collaborate with diverse professionals both within the clinic or hospital setting but also in related systems of care. The hospital or clinic setting includes care providers such as PCPs, nurse, allied health administrative support staff, and managers and executives such as medical director, CEO and CFO. The hospital or clinic also includes related departments such as quality improvement, electronic health records/health information technology, billing, finance and actuary. Systems of care include the patient/family, community, health plans, disease prevention or management companies, specialty mental health and substance use disorder providers, community-based resources, large employer group and related EAP providers.
IBC 728 Cultural Diver., Hlth & Illnes

Focuses on the relationship among cultural diversity, health and illness, and multicultural psychotherapy in primary care and other healthcare settings. Prepares behavioral clinicians to identify the relationship between cultural diversity and health and illness and to use effective psychotherapy informed by cultural diversity in primary care and related medical settings.

IBC 780 Practicum
Innov. Techn. in Behav. Health
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
Introduction to Behavior Inter
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
Behavioral Health Management
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
Psychosomatic Illnes: Diag & T
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
IBH Substance Use Primary Care
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
IBC 780 Practicum
Integrative Medicine
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 793 Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IBC 793 Applied Project
Clinical Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IBC 793 Applied Project
Intro to Applied Project CP1
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IBC 793 Applied Project
Dvpng the Applied Project CP2
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IBC 793 Applied Project
Completing Applied Project CP3
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

KIN 290 Intro Evidence-Based Practice
Introduces best practices for gathering, interpreting, analyzing, synthesizing and evaluating research within the health and health care professions.
MED 300 Hist Contemp Issues in Health

History of medicine in the modern world and its relationship to contemporary issues in medicine with emphasis on the broader context of ways in which technology, personalized medicine, genomics, ethical issues and shared decision making between patients and providers have evolved.

MED 300 Hist Contemp Issues in Health

History of medicine in the modern world and its relationship to contemporary issues in medicine with emphasis on the broader context of ways in which technology, personalized medicine, genomics, ethical issues and shared decision making between patients and providers have evolved.

MED 445 Prev & Mgmt of Chronic Disease

The United States spends more on health care than any other developed country in the world, yet our health care outcomes are not superior. We face an epidemic of chronic diseases which are the leading causes of mortality and disability in the U.S., despite being highly preventable. Examines chronic disease in the U.S. and provides an overview of prevention and management with a focus on population health and social determinants of health.

MED 450 Leadership and Professionalism

Leadership, leadership theory and inter-professionalism in practice. Applies didactic content to case studies and activities designed to promote critical thinking and effective teamwork. Solidifies concepts through the use of assignments, exams and discussions.

NTR 100 Introductory Nutrition

Basic concepts of human nutrition. Recent controversies in nutrition and how food choices affect personal health.
NTR 100 Introductory Nutrition

Basic concepts of human nutrition. Recent controversies in nutrition and how food choices affect personal health.

NTR 100 Intro to Nutrition Science

Introduces the science of food and nutrition as well as food systems. Focuses on personal dietary behavior change and sustainable dietary recommendations targeting human and environmental health to minimize risk of chronic disease. Overview of healthy dietary patterns, nutrients and energy balance and the digestive system. Addresses food systems issues, cultural aspects of food, and methods for evaluating credibility of nutrition information in the media as well as nutrition science.

NTR 142 Applied Food Principles

Applied scientific principles of food preparation and production.

NTR 241 Human Nutrition

Principles of human nutrition. Emphasizes nutrient metabolism and the relationships between diet and disease.

NTR 241 Human Nutrition

Principles of human nutrition. Emphasizes nutrient metabolism and the relationships between diet and disease.

NTR 290 Intro Evidence-Based Practice

Introduces best practices for gathering, interpreting, analyzing, synthesizing and evaluating research within the health and health care professions.
NTR 290 Intro Evidence-Based Practice

Introduces best practices for gathering, interpreting, analyzing, synthesizing and evaluating research within the health and health care professions.

NTR 300 Computer Appls in Nutrition

Introduces nutrition and food software, including dietary assessment and analysis, food inventory and control, and telecommunications.

NTR 300 Computer Appls in Nutrition

Introduces nutrition and food software, including dietary assessment and analysis, food inventory and control, and telecommunications.

NTR 302 Digital Tech in Nutrition Comm

Fundamental skills in use of digital technologies in nutrition communications, including presentation, video and Web design software.

NTR 302 Digital Tech in Nutrition Comm

Fundamental skills in use of digital technologies in nutrition communications, including presentation, video and Web design software.

NTR 320 History of Human Nutrition

Origins of human nutrition; evolving theories of nutrition and disease; historical role of nutrition in social, military, cultural events.

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Origins of human nutrition; evolving theories of nutrition and disease; historical role of nutrition in social, military, cultural events.
NTR 340 Apps in Human Nutrition

Applies nutrient metabolism through case studies and product evaluations; special topics in human nutrition.

NTR 340 Evidence-Based Nutrition

Investigates methods of inquiry in human nutrition and techniques for critiquing and interpreting research within the context of evidence-based practice; utilizes evidence-based practice methods to explore current controversies in the nutrition field.

NTR 343 Food Service Purchasing

Introduces purchasing systems, bid processes, receiving and storage procedures, and regulatory agencies involved in the food service industry.

NTR 343 Food Service Purchasing

Introduces purchasing systems, bid processes, receiving and storage procedures, and regulatory agencies involved in the food service industry.

NTR 344 Nutrition Management & Leadership

Organization, administration, management and leadership in the nutrition field within healthcare, food service and other institutions.

NTR 344 Nutrition Management & Leadership

Organization, administration, management and leadership in the nutrition field within healthcare, food service and other institutions.

NTR 345 Development of Healthy Cuisine

Principles and applications of nutrition and medical nutrition therapy; development of healthy cuisines in health and disease states.
NTR 345 Development of Healthy Cuisine

Principles and applications of nutrition, food selection, food preparation and mindful eating in the development of healthy cuisine for wellness, prevention and disease states.

NTR 345 Development of Healthy Cuisine

Principles and applications of nutrition, food selection, food preparation and mindful eating in the development of healthy cuisine for wellness, prevention and disease states.

NTR 348 Cultural Aspects of Food

Origins, development, and diversity of food preferences and dietary habits; food patterns and attitudes of global populations and U.S. immigrants.

NTR 348 Cultural Aspects of Food

Origins, development, and diversity of food preferences and dietary habits; food patterns and attitudes of global populations and U.S. immigrants.

NTR 351 Nutrition & Hlth Communication

Approaches of nutrition and health communications; development of nutrition and health communication materials for selected target audiences.

NTR 351 Nutrition Communication

Approaches of nutrition and health communications; development of nutrition and health communication materials for selected target audiences.

NTR 351 Nutrition Communication

Approaches of nutrition and health communications; development of nutrition and health communication materials for selected target audiences.
NTR 353 The Western Diet

Hybrid course covering political, ethical, social and cultural issues inherent in the U.S. food system. Topics include examination of U.S. food guidance; the food system and food environment; the history of food and farm policy; food security and aspects of sustainability in relation to food system impacts on the health of humans, society and the environment.

NTR 355 Eating for Lifelong Health

Examines dietary choices throughout the life span and how they impact personal health and wellness. Prepares health and wellness team members to evaluate consumer and professional materials on dietary choices.

NTR 360 Entrepreneur & Value Creation

Exploration of entrepreneurial opportunities in nutrition, food service, wellness and health communications.

NTR 360 Nutrition Entrepreneurship

Explores entrepreneurial opportunities in nutrition, food service, wellness and health communications.
NTR 401 Field Exper Food & Nutrition

Applies academic knowledge in food service management to field practicum; develops practical skills in planning, purchasing, production, management.

NTR 401 Preprof Prep in Nutrition

Applies academic knowledge in food service management to field practicum; develops practical skills in planning, purchasing, production, management.

NTR 401 Preprof Prep in Nutrition

Applies academic knowledge in food service management to field practicum; develops practical skills in planning, purchasing, production, management.

NTR 445 Management of Food Service Sys

Standardized methods of quantity food preparation, operation of institutional equipment, institutional menu planning, quantity food experiences.

NTR 445 Management of Food Service Sys

Standardized methods of quantity food preparation, operation of institutional equipment, institutional menu planning, quantity food experiences.

NTR 450 Nutrition in the Life Cycle I

Emphasizes nutritional needs and problems during pregnancy, lactation, infancy, and childhood.

NTR 450 Nutrition in the Life Cycle

Nutritional needs and problems in pregnancy and lactation, infancy, childhood, adolescence, adults and older adults. Analysis of cultural, environmental, behavioral, psychosocial, physical and socio-economic factors affecting nutritional status through the life span.
NTR 450 Nutrition in the Life Cycle

Nutritional needs and problems in pregnancy and lactation, infancy, childhood, adolescence, adults and older adults. Analysis of cultural, environmental, behavioral, psychosocial, physical and socio-economic factors affecting nutritional status through the life span.

NTR 453 Nutrition and the Media

Examines the promotion of nutrition ideas and concepts through media.

NTR 455 Retail Food Service Operations

Development, evaluation and management of retail food service operations; legal and ethical issues in food and beverage management. Capstone course for food management degrees.

NTR 500 Research Methods
Research Nutr I
Course on research methods in a specific discipline.
NTR 501 Research Methods/Nutrition II

Reviews survey, focus group, and epidemiologic research; develops questionnaires; analyzes large data sets.

NTR 501 Research Methods/Nutrition II

Reviews survey, focus group, and epidemiologic research; develops questionnaires; analyzes large data sets.

NTR 502 Statistics in Research

Covers the fundamental principles of the scientific process. Critically reviews scientific articles including review articles. In particular, students understand study limitations and how they impact data interpretation and generalizability. Basic training in statistical analyses using the statistics program SPSS.

NTR 502 Statistics in Research

Covers the fundamental principles of the scientific process. Critically reviews scientific articles including review articles. In particular, students understand study limitations and how they impact data interpretation and generalizability. Basic training in statistical analyses using the statistics program SPSS.

NTR 503 Behavior Change

Project-based course focuses on the process of health behavior change interventions using design process and behavioral science.
NTR 510 Nutrition and the Lifespan

Examines the nutritional needs of humans as they move through the lifespan from pre-conception through elder years. Highlights conditions that may alter or substantially impact nutrition at these stages using case studies and medical reviews. Reviews programs that provide support for food or nutrition education at various life stages including changes in needs for specific macronutrients and micronutrients. Diet assessment techniques and diet prescription strategies to meet needs during various life stages.

NTR 511 Medical Nutrition

Provides an overview of the role of nutrition in medical practice and disease prevention. Includes an introduction to nutrition-based approaches in the prevention and treatment of chronic diseases such as obesity, cardiovascular disease, diabetes, cancer and gastrointestinal diseases. Discusses integrative aspects of nutrition along with review of normal digestion and absorption and a discussion of disorders arising from abnormalities in these processes. An introduction to clinical nutrition assessment and the basics of nutrition support will also be provided. Utilizes relevant clinical case discussions along with review of the literature and current authoritative guidelines to reinforce the content. Students learn how to individualize nutrition recommendations and utilize motivational interviewing for patients with the various above-listed needs.
NTR 511 Medical Nutrition

Provides an overview of the role of nutrition in medical practice and disease prevention. Includes an introduction to nutrition-based approaches in the prevention and treatment of chronic diseases such as obesity, cardiovascular disease, diabetes, cancer and gastrointestinal diseases. Discusses integrative aspects of nutrition along with review of normal digestion and absorption and a discussion of disorders arising from abnormalities in these processes. An introduction to clinical nutrition assessment and the basics of nutrition support will also be provided. Utilizes relevant clinical case discussions along with review of the literature and current authoritative guidelines to reinforce the content. Students learn how to individualize nutrition recommendations and utilize motivational interviewing for patients with the various above-listed needs.

NTR 524 Chronic inflammation

Examines how diet and lifestyle contribute to the development of metabolic syndrome. Reviews and discusses various risk factors that comprise metabolic syndrome through lectures and readings. Reviews chronic inflammation as a common etiology for chronic disease. Highlights nutrition interventions to treat and to prevent chronic inflammation using case studies and medical reviews.

NTR 525 Complementary Nutrition

Critical review of functional foods, phytochemicals, nutrient supplements in health promotion.

NTR 529 Pediatric Nutrition

Critical review of pediatric disease states and current nutritional therapies.
NTR 533 Diet Ethics and Policy

Political and ethical issues inherent in the U.S. food system. Topics include food and agricultural policy, government dietary recommendations and regulations, food environment, current issues in food politics, ethical questions of food choice, issues of obesity and food security, sustainability, and investigation of how and why Americans eat the way they do.

NTR 533 Diet Ethics and Policy

Political and ethical issues inherent in the U.S. food system. Topics include food and agricultural policy, government dietary recommendations and regulations, food environment, current issues in food politics, ethical questions of food choice, issues of obesity and food security, sustainability, and investigation of how and why Americans eat the way they do.

NTR 535 Nutrigenomics

Provides a sound foundation for promoting personalized nutrition by integrating and applying molecular nutrition and nutritional biochemistry to clinical settings.

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Provides a sound foundation for promoting personalized nutrition by integrating and applying molecular nutrition and nutritional biochemistry to clinical settings.

NTR 555 Advanced Sports Nutrition

In-depth study of current practices in sports nutrition and review of scientific literature. Also investigates the application of sports nutrition methodologies.

NTR 555 Advanced Sports Nutrition

In-depth study of current practices in sports nutrition and review of scientific literature. Also investigates the application of sports nutrition methodologies.
NTR 590 Reading and Conference
Reading & Conference
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

NTR 590 Reading and Conference
Reading & Conference
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

NTR 593 Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

NTR 593 Applied Project
Applied Project 1
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

NTR 593 Applied Project
Applied Project 2
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

NTR 593 Applied Project
Independent Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

NTR 593 Applied Project
Applied Project 1
Preparation of a supervised applied project that is a graduation requirement in some professional majors.
NTR 593 Applied Project
Independent Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

NTR 593 Applied Project
Applied Project 2
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

NTR 598 Special Topics
Health Coaching Concepts
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Advanced Sports Nutrition
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Grant Writing
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Clinical Nutrition Management
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
NTR 598 Special Topics
Historicl Develpmnt Human Nutr
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Applied Research in Nutrition
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Nutrition-Focused Phys Assess
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Nutrition and the Athlete
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Statistics in Research
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

NTR 598 Special Topics
Nutrition for Eating Disorders
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
NTR 598 Special Topics
Leadership in Food & Nutr Serv
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

NTR 598 Special Topics
Nutrition for Eating Disorders
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

NTR 598 Special Topics
Nutrition-Focused Phys Assess
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PBH 100 Introduction to Public Health

Introduces public health in the United States. Familiarize
students with the broad discipline of public health and how it
influences community and individual health status. Discusses
the role of various agencies in public health, methods of
measurement and evaluation, major public health issues in the
United States, and factors that contribute to individual and
community health. Solidifies concepts through the use of in-
class discussion, group work and individual analysis.

PBH 422 Health Disparities

Racial and ethnic health disparities in the United States.
Explores disparities in healthcare seen at the provider and
system level and their effects on health in the community. Also
considers the historical context of racial and ethnic health
disparities and the demographic and conceptual issues
surrounding health disparities research. Reflects on the
effects of behavior, socioeconomic status and group-specific
disparities on community health status.
PBH 435 Environ & Occupational Health

Environmental health designed to address public health issues.

PBH 435 Environ & Occupational Health

Environmental health designed to address public health issues.

POP 100 Intro to Population Health

Introduces population health in the United States. Familiarizes students with the broad discipline of population health and how it influences community and individual health status. Discusses the role of various agencies in population health, methods of measurement and evaluation, major population health issues in the United States, and factors that contribute to individual and community health. Solidifies concepts through the use of in-class discussion, group work and individual analysis.

SHS 205 Exploring Comm Disorders

Introduces hearing, language, and speech problems in children and adults.

SHS 205 Exploring Comm Disorders

Introduces hearing, language, and speech problems in children and adults.

SHS 250 Introduction to Phonetics

Introduces English phonetics with emphasis on phonetic transcription, articulation, phonology, and disorders of speech.

SHS 250 Introduction to Phonetics

Introduces English phonetics with emphasis on phonetic transcription, articulation, phonology, and disorders of speech.
SHS 310 Anatomical/Physio Bases Speech

Noncadaveric study of anatomical systems that underlie human speech and language, including respiration, phonation, articulation, and related nervous system processes.

SHS 311 Hearing Science

Studies the physical characteristics of sound and of the structure and function of the human auditory system.

SHS 367 Language Science

Psychological processes, linguistic principles and social influences relating to language and communication.

SHS 375 Speech Science

Normative aspects of speech, hearing, and language.

SHS 401 Principles of Audiology

Introduces hearing disorders and the purposes and procedures for basic clinical tests of auditory function.

SHS 402 Clinic Mthds/Treat Comm Disord

Principles and techniques for planning speech and language intervention, including observation experiences.

SHS 465 Speech/Language Acquisition

Speech and language development in the normal child.

SHS 470 Develop Speech/Lang Disorders

The nature of speech and language disorders in children

SHS 485 Acquired Speech/Lang Disorders

Acquired speech and language disorders across the lifespan.
SHS 496 Aural Rehabilitation

Approaches to aural rehabilitation of children and adults. Introduces educational audiology and assistive listening devices.

LAW 516 Criminal Law

Substantive law of crimes.

LAW 523 Property

Indicia of ownership, found property, estates in land, landlord tenant, nonpossessory interests in property, nuisance, land use planning, and transfers of interests in property.

LAW 530 Fundamentals of Contract Law

Explores the fundamental principles of contract law under the common-law and Uniform Commercial Code statutory provisions. Focuses on issues of contract formation and interpretation, defenses to enforcement, warranties and conditions, and remedies for breach of contract.

LAW 581 US Law & Legal Analysis

Introduces non-JD students to the U.S. legal system and to the types of legal reasoning used by U.S. lawyers and judges. Provides the necessary instruction to use legal reasoning in work, including reading and understanding cases and statutes and applying existing law to the issue presented. Extensive written legal analysis exercises.

LAW 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.
LAW 598 Special Topics
Duty Obligation Rts/Workplace
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

LAW 598 Special Topics
Tort Law
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

LAW 598 Special Topics
Adv Topics in Sports Law
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

LAW 598 Special Topics
Adm Agencies and Regulation
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

LAW 598 Special Topics
Adv Topics in HR & Employ Law
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

LAW 598 Special Topics
US Constitutional Law
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
LAW 598 Special Topics
Adv Topics in Criminal Law
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

LAW 598 Special Topics
Compliance and Ethics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

LAW 604 Criminal Procedure
Nature of the criminal procedural system with special focus on constitutional protections for the accused.

LAW 629 Employment Law
Employment law topics including testing, privacy, OSHA, FLSA, benefits, worker’s compensation, rights to compensation, workplace emotional injuries, termination, and sexual harassment.

LAW 630 Employment Discrimination
Focuses primarily on Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, and the Americans with Disabilities Act.

LAW 631 Environmental Law
Litigation, administrative law, and legislation relating to problems of environmental quality. Topics covered may include air and water pollution, toxic substances, pesticides, and radiation.
LAW 636 Land Use Regulation

Legal problems in the regulation and control of land development by state and local governments. Administration of zoning, subdivision, and other planning controls; issues of fairness and procedure in the utilization of such controls.

LAW 643 Water Law

Acquisition of water rights; water use controls; interstate conflicts.

LAW 645 Patent Law

In-depth examination of substantive patent law as it applies to the commercialization and enforcement of patent rights.

LAW 646 Copyright Law

Legal rights in original forms of human expression.

LAW 654 Business Organizations

Covers the primary forms of business organizations: partnerships, limited partnerships, limited liability companies, and corporations.

LAW 664 Intellectual Property

Surveys the laws conventionally grouped as intellectual property, with a focus on patents, copyrights, and trademarks. Explores the policy rationales for each body of law. Particularly relevant for two types of students: (a) those who are unsure they want to specialize in IP and want a general introduction, and (b) those who do not have room in the schedules to take all of the upper-level offerings here at ASU. Not appropriate for students who have already taken the upper-level courses in copyright, trademark, and patents; students who have taken these offerings may be withdrawn.
LAW 691 Seminar
Trademark & Unfair Competition
A small class emphasizing discussion, presentations by students, and written research papers.

LAW 691 Seminar
Energy Law & Policy
A small class emphasizing discussion, presentations by students, and written research papers.

LAW 691 Seminar
Indigenous Rights & Int'l Law
A small class emphasizing discussion, presentations by students, and written research papers.

LAW 691 Seminar
Transnational Litigation
A small class emphasizing discussion, presentations by students, and written research papers.

LAW 702 Alternative Dispute Resolution

Broad exposure to methods of settling disputes in our society such as mediation, arbitration/conciliation, and negotiation, including examination of the current litigation model.

LAW 715 Sports Law

Unique legal problems relating to professional sports, including their relationship to antitrust laws, the nature of player contracts, and associated tax problems.

LAW 791 Seminar
Non-Professional Sports Law
A small class emphasizing discussion, presentations by students, and written research papers.
SDO 501 US Law & Legal Analysis-Master

Introduces the U.S. legal system and the types of legal reasoning used by legal professionals. Provides the necessary instruction to use legal reasoning in both academic work and professional endeavors, including reading and evaluating legal cases, statutes and public policy. Students complete extensive written legal analysis exercises, draft case briefs and complete discussion board posts critically analyzing current legal issues.

SDO 510 Business Organization: Masters

Covers the primary forms of business organizations: partnerships, limited partnerships, limited liability companies and corporations.

SDO 511 Admin Agencies/Reg: Masters

Begins with an accelerated introduction to federal administrative agencies, the sources and boundaries of their authority, and options for redress for parties aggrieved by administrative actions. Also briefly examines state administrative agencies in the same light.

SDO 515 Criminal Law: Masters

Reviews and analyzes different principles of the fundamentals of criminal law, including: the principles of punishment, burdens of proof, actus reus (acts and omissions), mens rea (mental states), presumptions, causation, strict liability, defenses and homicide

SDO 516 Criminal Procedure: Masters

Consider the basic principles of criminal procedure and the methods by which the criminal justice system functions.

SDO 518 Fund of Contract Law: Masters
Explores the fundamental principles of contract law under the common-law and Uniform Commercial Code statutory provisions. Focuses on issues of contract formation and interpretation, defenses to enforcement, warranties and conditions, and remedies for breach of contract.

SDO 525 Tort Law: Masters

High-level introduction to torts. Covers various types of tort causes of action, their various elements, defenses and factual patterns that fit those specific tort causes of action.

SDO 529 US Constitutional Law: Masters

Surveys the law surrounding the allocation of governmental power between federal, state and tribal governments and the distribution of governmental authority within the federal government. It is a pervasive subject in the sense that such constitutional questions can emerge in such disparate areas of legal practice as immigration, corporations and securities, family law, criminal law, banking and insurance. Deals with individual rights protected by the U.S. Constitution. Specific areas include due process, freedom of expression and religion, and equal protection.

SDO 535 Negotiation: Masters

Offers a basic introduction to the concepts, instruments, functions and theories of modern negotiation giving students some of the information needed to better understand the dynamics of interpersonal, business and legally related negotiation. Begins with a discussion of negotiations as interpersonal communication. Examines avoiding exploitation in mixed-motive exchanges. Explores distributive bargaining strengths and weaknesses. Examines the use of integrative bargaining techniques and those settings in which they might be best used. Finally, reviews the landscape of legal jurisprudence in order to apply appropriate ideologies and techniques to the complex adaptive system of American business and personal interaction in the shadow of the law.
SDO 546 Mediation: Masters

Studies the process in which a trained neutral third party assists others in resolving a dispute or planning a transaction. Trains students in basic mediation skills through readings, lectures, video demonstrations and simulations, and discussions.

SDO 568 Leg Princ/Bus Pract: Masters

Survey course covers various substantive topics with a focus on applying the basic legal principles covered via court decisions and other reading assignments. Requires a basic understanding of “black letter law,” but this is not a course that asks MLS students to provide the same level of nuanced legal analysis as would be asked of law students. Instead, merging business acumen and legal analysis is valued above a depth of legal understanding.

SDO 598 Special Topics
Privacy-Masters
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Tort Law - Masters
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
US Constitutional Law - Master
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SDO 598 Special Topics
US Law/Legal Analysis-Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Cont Rev & Struct - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Negotiation - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Bus Organizations - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Fund of Contract Law - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Environmental Law - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SDO 598 Special Topics
Integ Leg Princ & Bus Prac
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Construction Law-Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Admin Agencies & Reg - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Intellectual Property - Master
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Sports Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Immigration Law-Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SDO 598 Special Topics
Criminal Law - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Divorce/Family Mediation-Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Arbitration - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
American Indian Law-Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Sports Career Plan & Bus Comm
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Patent Law - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SDO 598 Special Topics
Amateur Sports Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Conflict Theory - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Sports Facilities Mgt:Safety
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Property - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Org & Work Disp Resol- Master
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Criminal Procedure - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SDO 598 Special Topics
Energy Law & Policy - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Psychology of Conflict- Master
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Land Use Regulation - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Health Ind Compliance-Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Compliance & Ethics - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Copyright Law - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SDO 598 Special Topics
Evidence - Masters
Topical courses not offered in regular course rotation--
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faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Prof Sports Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Adv HR & Employ Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Water Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Employment Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Adv Construction Law-Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SDO 598 Special Topics
Dispute Syst Design - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Adv Sports Law - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Risk Assmnt/Mgt-Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Sports Analytics - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Duties Obligs & Rts - Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics
Employ Discrimination- Masters
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SDO 598 Special Topics
Adv Topics Crim Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
TM & Unfair Competit- Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Data Privacy/Protection-Master
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Family Law - Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Prof Writing & Comm-Masters
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SDO 598 Special Topics
Fact Investigation-Masters
Topical courses not offered in regular course rotation--
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faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SDO 598 Special Topics  
Sports Bus Strategy - Masters  
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics  
HR & Employment Law - Masters  
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SDO 598 Special Topics  
Fin Industry Compliance-Master  
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SLB 510 Amateur Sports Law  
Studies law, policy and problem solving in the amateur sports context, focusing primarily on interscholastic and intercollegiate athletics. Title IX and racial equality in sports.

SLB 512 Professional Sports Law  
Studies law, revenue, branding and problem solving in the professional sports context, focusing primarily on professional sports league governance and regulation, labor relations, representing and marketing players and coaches, and issues of equity and race. Also examines international issues related to professional sports.
SLB 515 Sports Business Strategy

Sports can involve a jog around campus or big business. Sports are interesting, important and a vivid context to learn about consumers, organizations, diverse stakeholders, media and entertainment, partnerships and sponsorship, highly competitive strategies in finance and marketing, managing community venues, big events, and other relevant business topics. Maintains a pragmatic, experiential, yet well-grounded focus, studying the role, nature and dynamics of sports business both in and around “sports industries” and in and around “conventional businesses.” Builds and “tests” knowledge and exercise skills related to sports business analysis, decision making, communication and both strategy development and execution. Intellectually rigorous, yet fun. Develops a sophisticated, yet practical understanding of the nature, contexts and dynamics of sports business.

SLB 518 Sports Analytics

Develops and applies analytical skills that are useful in nearly every career. Although the course focuses on applications in the sports context and uses approaches that are rapidly becoming important in the business of sports analytics, this is not a survey course about issues in sports. Instead, this class is about curiosity, storytelling and logic. An understanding and interest in both sports and numbers make this class good. General curiosity makes it great.

ABS 270 Sustainable Biological Systems

Ecological foundations of sustainable biological systems, anthropogenic impacts on ecosystem structure and function, and ecological risk assessment.

ABS 360 Southwest Home Gardening

Multimedia course for nonmajors surveying contemporary topics in Southwest home horticulture, including landscaping, flower and vegetable gardening, citriculture, interiorscaping, and others.
AGB 294 Special Topics Economics of Resource Allocation
Covers topics of immediate or special interest to a faculty member and students.

AGB 435 Commodity Future and Opt Mkts

Provides an understanding of how to use futures and options markets in a risk management and pricing context, especially as it pertains to the marketing and procurement of agricultural commodities by grain and livestock merchandisers, food manufacturers, and producers/distributors/consumers of natural resources.

AGB 445 Food Retailing

Food retail management. Discusses trends, problems, and functions of food retail managers within various retail institutions.

AGB 481 Microecon Analysis of Food Mkt

By applying the basic concepts of microeconomics to real-world data, this course allows the student to not only gain a book-oriented understanding of how businesses in the food industry behave, but practical, hands-on experience that lasts far beyond the classroom.

ASC 315 Numeracy in Technology

Contextual uses of mathematics in applied sciences. Emphasizes using mathematical methodologies to solve technology-related problems.

ASC 325 Physical Sciences in Tech

Physical systems and their interrelationships on technology systems. Real-world applications of physical systems.
BUA 380 Small Business Leadership

Develops leadership skills needed to form, lead, and operate a small business. Emphasizes creating a vision, research, and problem solving.

BUA 381 Small Business Acct & Finance

Accounting and finance skills needed by small business owners to acquire, allocate, and track monetary resources and evaluate performance.

BUA 382 Small Bus Sales & Market Dev

Building and maintaining customers, developing a market identity and a niche, and the importance of sales.

BUA 383 Small Bus Working Relationship

Addresses communication and the people in a business—clients, employees, suppliers, competitors, governments, family, and self development.

BUA 384 Small Bus Operations & Plnning

Planning and executing plans—the what, when, where, how, and who from product/service/project idea to pay back or completion.

CST 100 Object-Oriented Software Dev

Introduces problem solving with a state-of-the-art programming language. Expressions, statements, basic control flow and methods. Data, data aggregation and usage. Uses a structured personal software development process to implement solutions representative of common computing applications. Uses development kits for some course activities.
CST 200 Core Data Strs w/OOP

Design, implementation and use of core data structures; object-oriented software development: design, analysis and programming.

EGR 104 Crit Inquiry in Engineering

Critical thinking. Systematic evaluation of information as input to well-informed decision making. Close reading and substantive writing in a technical setting.

EGR 280 Engineering Statistics

Applications-oriented introduction to statistics with computer-based experience using statistical software for formulating and solving engineering problems.

ETM 524 Integrated Emergency Mgmt


ETM 567 Information Tech in Emerg Mgmt

Provides theory and application of computer-based programs in emergency management and the use of various emergency modeling programs.

GIT 135 Graphic Communications

Technologies and processes involved in the design, image generation, transmission, and industrial production of graphic information.

GIT 135 Graphic Communications

Technologies and processes involved in the design, image generation, transmission, and industrial production of graphic information.
GIT 210 Creative Thinking and Dsgn Viz

Fundamental methods, concepts, and techniques of creative thinking, design visualization, and problem solving, including communication and societal influences.

GIT 210 Creative Thinking and Dsgn Viz

Fundamental methods, concepts, and techniques of creative thinking, design visualization, and problem solving, including communication and societal influences.

GIT 215 Intro to Graphics Programming

Graphic user interface planning and evaluation using HTML, XHTML, CSS and JavaScript programming tools; graphic, color, layout and file format considerations.

GIT 215 Intro to Graphics Programming

Graphic user interface planning and evaluation using HTML, XHTML, CSS and JavaScript programming tools; graphic, color, layout and file format considerations.

GIT 215 Introduction to Web Authoring

Graphic user interface planning and evaluation using industry-standard languages; graphics, color layout and file format considerations.

GIT 230 Digital Illustration in Publis

Raster and vector illustration in publishing.

GIT 230 Digital Illustration in Publis

Raster and vector illustration in publishing.
GIT 237 Web Content Design

Design principles for visual content on the World Wide Web using XHTML and CSS; raster, vector, fonts, portable documents, color palettes, and file format considerations.

GIT 237 Web Content Design

User-centered design principles for visual content on the World Wide Web with emphasis on usability, page architecture, search engine optimization, coding, scripting and interactivity.

GIT 303 Digital Publishing

Web and print publication design and production using industry-standard composition software, proofing, and output devices.

GIT 312 3-D Computer Graphics Modeling

3-D modeling applications: modeling for video games, mapping techniques, texturing, box modeling, geometric representation, strategies and assemblies.

GIT 314 MM Dsgn, Plan and Stybd

The creative process of generating ideas, conceptualizing projects, planning, designing, storyboarding, and presenting interactive multimedia products.

GIT 314 MM Dsgn, Plan and Stybd

The creative process of generating ideas, conceptualizing projects, planning, designing, storyboarding, and presenting interactive multimedia products.

GIT 334 Image Capture and Manipulation

Theory and application of image capture techniques used for all copy formats and conversion processes required for reproduction or dissemination.
GIT 334 Image Editing and Manipulation

Theory and application of advanced image editing and raster techniques for reproduction and dissemination.

GIT 335 Computer Systems Technology

Computer technology: hardware, software, storage, networking, Internet, telecommunications, and information systems. Requires independent research.

GIT 335 Computer Systems Technology

Computer technology: hardware, software, storage, networking, Internet, telecommunications, and information systems. Requires independent research.

GIT 337 Web Content Design

Design principles for visual content on the World Wide Web using XHTML and CSS; raster, vector, fonts, portable documents, color palettes, and file format considerations.

GIT 384 Commercial Photography

Digital image capture, and output in a commercial studio emphasizing publishing workflow.

GIT 402 New Media Internet Tech

Project-based exploration of new media Internet technologies from a graphic technology prospective. Emphasizes how, why, and when new media can be used to enhance a Web site and the user's experience.

GIT 413 Prof Port Dsgn and Pres

Digital media portfolio design and production: planning, audience analysis, media selection, authoring, media formats, production, copyright considerations, marketing, and delivery. Requires capstone group project.
GIT 414 Web Site Design/Internet/Web

Web site design, authoring, standards, protocols, tools, and development techniques for commercial client-sided Web-based graphic information systems.

GIT 414 Web Site Design/Internet/Web

Web site design, authoring, standards, protocols, tools, and development techniques for commercial client-sided Web-based graphic information systems.

GIT 417 Advanced Internet Programming

Industry-standard programming languages and techniques to create interactive graphic information Web sites and applications.

GIT 417 Advanced Internet Programming

Industry-standard programming languages and techniques to create interactive graphic information Web sites and applications.

GIT 417 Adv Web Markup and Scripting

Industry-standard programming languages and techniques to create interactive graphic information Web sites and applications.

GIT 418 Multimedia Author/Script/Prod

Production of multimedia projects using industry-standard authoring applications: client considerations and project documentation; user interface design, interactivity, media, and databases.

GIT 418 Multimedia Author/Script/Prod

Production of multimedia projects using industry-standard authoring applications: client considerations and project documentation; user interface design, interactivity, media, and databases.
GIT 432 Graphic Industry Business Prac

Business practices related to press/prepress/Web industries; trade customs, cost analysis, marketing and management approaches.

GIT 432 Graphic Industry Business Prac

Business practices related to press/prepress/Web industries; trade customs, cost analysis, marketing and management approaches.

GIT 435 Web Management and E-Commerce

Internet Web site management, security, marketing, and e-commerce business models.

GIT 435 Web Management and E-Commerce

Internet Web site management, security, marketing, and e-commerce business models.

GIT 435 Website and E-Commerce Strat

Internet Web site management, security, marketing, and e-commerce business models.

GIT 437 Color Reproduction Systems

Scientific analysis for the engineering of color reproduction systems and color models used in the graphics industry.

GIT 437 Color Reproduction Systems

Scientific analysis for the engineering of color reproduction systems and color models used in the graphics industry.

GIT 450 Digital Workflow/Graphic Indus

Digital production system analysis for content creation, automation output of graphic information to print and Web, including networking and job tracking.
GIT 480 Senior Project

Capstone project experience refining skills in communication, research and information retrieval, critical analysis and criticism, and demonstrating technical competence in each student's area of study.

GIT 480 Senior Project

Capstone project experience refining skills in communication, research and information retrieval, critical analysis and criticism, and demonstrating technical competence in each student's area of study.

GIT 494 Special Topics
Mgmt of Web Technologies
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
New Media Internet Technologies
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
Information Design & Usability
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
Designing for the Web User Exp
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
Web Content Management
Covers topics of immediate or special interest to a faculty member and students.
GIT 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

GIT 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

GIT 500 Research Methods

Course on research methods in a specific discipline.

GIT 500 Research Methods

Course on research methods in a specific discipline.
GIT 542 Information Design & Usability

Design and technology solutions focusing on how information is organized graphically to communicate and how website usability is employed to improve human interaction with inline information.

GIT 542 Information Design & Usability

Design and technology solutions focusing on how information is organized graphically to communicate and how website usability is employed to improve human interaction with inline information.

GIT 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GIT 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GIT 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

GIT 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.
GIT 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

GIT 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

GIT 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

GIT 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

GIT 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.
GIT 598 Special Topics
Technical Foundations
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
New Media Internet Technologies
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Graphic Indus Business Prac
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
App Dev & Cross Media Research
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Management of Web Technology
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Advanced Internet Prog.

Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GIT 598 Special Topics
Designing for the Web User Exp
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
guest faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
Color Reproduction Systems
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
guest faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
Website Design & Internet/Web
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
guest faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
Web Management & E commerce
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
guest faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
Multimed Auth, Script & Prd
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
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faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
Web Content Management
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
Website Design & Internet/Web
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GIT 598 Special Topics
New Media Internet Technologies
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e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

IFT 100 Multimedia, Internet, and Web
Project-based introduction to the key concepts, tools and
technologies underlying digital media, the Internet and the
World Wide Web. Introduces media design and processing
including various media such as text, audio, image and video.
Web languages, architecture, components and tools; website
design and creation.
IFT 200 Info Model, Store & Retrieval

Notations, tools and languages for modeling, representing and manipulating information; database creation, access and management in the context of a controlling application. Analyzes information storage needs and design of an appropriate representation. Project-based access to information through tools and languages such as structured query language.

OMT 343 Occupational Safety/Ergonomics

Health and safety movement, accident theories and effects, OSHA standards and liability, safeguarding, hazards, workers’ compensation, ergonomics, and safety.

OMT 402 Legal Issues for Technologists

American legal system and impact on technology management issues: contracts, torts, intellectual property, white collar crime, antitrust, environmental, and employment.

OMT 430 Ethical Issues in Technology

Topics in social responsibility for industrial technology and engineering.

OMT 440 Introduction to Intl Business

International business principles and operations, including partnerships, trade agreements, currency issues, international sales, and cultural differences between countries.

OMT 445 Industrial Internship

Work experience assignment in industry commensurate with student's program. Specialized instruction by industry with university supervision. Pass/fail.

OMT 452 Industrial Human Resource Mgmt

Concepts and practices of human resource management in a global industrial environment.
OMT 461 Operations Management

Introduces supervisory principles as applied to production of goods and services.

OMT 480 Organizational Effectiveness

Human aspects of supervisory behavior in the industrial setting and how they influence efficiency, morale, and organizational practices.

OMT 494 Special Topics
Tech. Entrepreneurship
Covers topics of immediate or special interest to a faculty member and students.

OMT 494 Special Topics
Professional Project
Covers topics of immediate or special interest to a faculty member and students.

OMT 494 Special Topics
Green Belt Process Impr Proj
Covers topics of immediate or special interest to a faculty member and students.

OMT 494 Special Topics
Strategic Planning & Mgmt
Covers topics of immediate or special interest to a faculty member and students.

OMT 494 Special Topics
Lean Six Sigma Green Blt. Cert
Covers topics of immediate or special interest to a faculty member and students.

OMT 494 Special Topics
Lean Process Improvement
Covers topics of immediate or special interest to a faculty member and students.
OMT 548 Statistical Methods for Research

Multivariate statistical techniques to analyze research data. Uses statistical software and applications.

PGS 101 Introduction to Psychology

Major areas of theory and research in psychology. Requires participation in department-sponsored research or an educationally equivalent alternative activity.

PGS 304 Effective Thinking

Understanding and improving intellectual and behavioral skills; information analysis, inference, logic, problem solving, and decision making.

PGS 315 Personality Theory/Research

Definition and description of personality in terms of theoretical and methodological approaches.

PGS 341 Developmental Psychology

Analyzes behavior development in terms of psychological principles. Current research in human development.

PGS 350 Social Psychology

Human social behavior, including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion.

PGS 466 Abnormal Psychology

Historical and current definitions, theory, and research concerning abnormal behavior. Major categories of psychopathology, including related treatment approaches.
PSY 230 Introduction to Statistics
Basic concepts in descriptive and inferential statistics, emphasizing applications to psychology.

PSY 323 Sensation and Perception
Underlying processes of vision, audition, and the other senses. Applies current research and theory in a lab environment.

PSY 323 Sensation and Perception
Underlying processes of vision, audition, and the other senses. Integrates theory, research, and application.

PSY 324 Memory and Cognition
Processes underlying information storage and retrieval, including different kinds of memory, forgetting, depth of processing, and control processes.

PSY 341 Developmental Psychology
Analyzes behavior development in terms of psychological principles. Current research in human development.

PSY 360 Cognitive Science
Examines cognition from the varied perspectives of philosophy, linguistics, psychology, computer science (artificial intelligence), and neuroscience.

PSY 366 Abnormal Psychology
Historical and current definitions, theory, and research concerning abnormal behavior. Major categories of psychopathology, including related treatment approaches.

PSY 438 Human-Computer Interaction
Theories, methods, and findings concerning the usability of computer systems and the design of effective user interfaces.
PSY 439 Training and Skill Acquisition

Theories, methods, and findings concerning the acquisition of skilled performance and the design of effective training systems.

PSY 453 Organizational Behavior

Surveys psychological theory and research as applied to the behavior of individuals in organizational settings.

SER 232 Systems Fundamentals I

Logic design and computer organization; number systems and arithmetic, boolean algebra; digital systems components; assembly language and instruction set concepts and application.

STP 420 Introductory Applied Statistic

Introductory probability, descriptive statistics, sampling distributions, parameter estimation, tests of hypotheses, chi-square tests, regression analysis, analysis of variance, and nonparametric tests.

TEM 100 Seminar in Entrepreneurship

Exposes students to careers in entrepreneurship by inviting diverse entrepreneurs to discuss their businesses and backgrounds and share their stories on starting and growing their ventures.

TEM 200 My Technology Venture

Introduces the concept of entrepreneurship through venture practice and self-reflection to help students understand their potential roles in a technology-driven marketplace.

TEM 230 Creativity/Business innovation

Introduces concepts, models and techniques of creativity and innovation. Exposes processes related to developing creative skills and habits with an emphasis on problem solving and design.
TEM 250 Design Methodology

Outlines product design method and provides opportunity to apply it to a design project including identifying needs, setting target specifications, generating and selecting concepts, prototyping and testing.

TEM 294 Special Topics
Design Methodology
Covers topics of immediate or special interest to a faculty member and students.

TEM 294 Special Topics
My Technology Venture
Covers topics of immediate or special interest to a faculty member and students.

TEM 294 Special Topics
Social Entrepreneurship I
Covers topics of immediate or special interest to a faculty member and students.

TEM 311 Opportunity Analysis

The key to making sound business decisions involves the careful analysis of the situation, intelligent use of research, and successful practice. Entails the research and implementation of strategy to determine consumer expectations utilizing the skills especially important in today's competitive and turbulent market.

TEM 330 Systems Innovation

Systems thinking course that investigates how innovators can incorporate the knowledge of complex systems into the processes of technology development, product/service innovation and venture development.

TEM 394 Special Topics
Market Opportunity Analysis
Covers topics of immediate or special interest to a faculty member and students.
TEM 394 Special Topics
Funding and Fin the Enterprise
Covers topics of immediate or special interest to a faculty member and students.

TEM 394 Special Topics
System Innovation
Covers topics of immediate or special interest to a faculty member and students.

TEM 394 Special Topics
Technology Entrepreneurship
Covers topics of immediate or special interest to a faculty member and students.

TEM 394 Special Topics
Innovation and Creativity
Covers topics of immediate or special interest to a faculty member and students.

TEM 394 Special Topics
Social Entrepreneurship II
Covers topics of immediate or special interest to a faculty member and students.

TEM 400 Technology Entrepreneurship

Introduces opportunities and challenges that accompany starting and operating an entrepreneurial venture by exploring the fundamentals and principles of entrepreneurship suitable for undergraduate business and technology students. Provides real-world, hands-on learning on what it’s like to successfully transfer knowledge into products and processes that benefit society. Engages students with industry, talking to customers, partners and competitors, as the team encounters the chaos and uncertainty of transferring knowledge into products and processes that benefit society.
TEM 455 Global Impact Entrepreneurship

Increases awareness and understanding of the complex nature of global poverty. Students think comprehensively about sustainable ways to address by focusing on business ventures and product design, which take advantage of local resources, networks and institutions. Students design and refine technologies and services that address the needs of communities in the developing world. Examines piloted technological innovations by ASU students in the west African nation of Ghana, India, and Latin American countries such as Mexico and Peru. Analyzes technological initiatives that have been piloted in Ghana and Peru, and attempts to create sustainable business ventures for them.

TEM 494 Special Topics
Innovation Management
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Focus Area Project I
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Focus Project II
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Lean Six Sigma Green Blt. Cert
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Consulting Project
Covers topics of immediate or special interest to a faculty member and students.
TEM 494 Special Topics
Startup Workshop
Covers topics of immediate or special interest to a faculty member and students.

TEM 532 Advanced Analysis of Systems

Introductory course in systems analysis and modeling. Develops basic competence in formulating and solving models of systems to aid decision making. Topics include: introduction to systems and systems modeling; a simple what-if analysis; overview and review of linear algebra and matrices; problem formulation and model development in optimization; linear programming (LP), economic interpretation and sensitivity analysis; introduction to integer programming (IP); special linear programs; project schedule network development and computations; overview of heuristic algorithms. Uses selected software in examples, short problems and in a project.

TEM 598 Special Topics
Technological Entrepreneurship
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TEM 598 Special Topics
Advanced Analysis of Systems
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TEM 598 Special Topics
Operations Mgmt for Technology
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
TEM 598 Special Topics
Statistics Bootcamp for Indus
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
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responding to unique student demand.

TEM 598 Special Topics
Lean Six Sigma Green Blt Cert
Topical courses not offered in regular course rotation--
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TEM 598 Special Topics

Topical courses not offered in regular course rotation--
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TMC 110 Understanding the Enterprise

Introduces essential functions required in technology-based
and innovative enterprises and viewed in the context of their
relationship to each other; examines the enterprise’s role in
society.

TMC 310 Promotion of the Enterprise

Building and maintaining customers with an emphasis on
developing a market identity and sales for technology-based
and innovative enterprises.
TMC 320 Funding the Enterprise

Focuses on financial resource management techniques utilized by U.S. domestic air carriers and covers the unique aspects of revenue accounting and its application to airline operations. Concepts covered include: data capture of requisite information from various airline computer systems; determination of revenues generated from sales of airline products and services to customers; in-depth analysis of airline operational expenses; preparation of airline-specific accounting and financial data; monthly accounting requirements; account reconciliation; monthly/quarterly/annual reporting to U.S. governmental agencies; development and analysis of financial reports; and interline billing. Emphasizes accounting, planning and valuation concerns, as well as financial trends and industry prospects.

TMC 320 Funding the Enterprise

Focuses on financial resource management techniques utilized by U.S. domestic companies and covers the unique aspects of revenue accounting and its application to company operations. Concepts covered include: data capture of requisite information from various computer systems; determination of revenues generated from sales of products and services to customers; in-depth analysis of operational expenses; preparation of accounting and financial data; monthly accounting requirements; account reconciliation; monthly/quarterly/annual reporting; development and analysis of financial reports and billing. Emphasizes accounting, planning and valuation concerns, as well as financial trends and industry prospects.

TMC 330 Leading the Enterprise

Essential practices for managers, including planning, organizing, leading and controlling the enterprise. Studies current issues affecting managers such as sustainability, environmental protection, work groups, globalization, technology management, entrepreneurship, diversity and continuous improvement.
TMC 331 Quality Assurance

Instrumentation and methodologies for materials testing and quality control in various manufacturing processes.

TMC 346 Management Dynamics

Management challenges and the leadership skills needed to achieve organizational objectives in the changing industrial and technical environments.

TMC 410 Enterprise Operations

Emphasizes basic principles of enterprise operations management, including productivity, strategic management, global environment, forecasting, capacity planning, new technologies, location and layout strategies, supply-chain management, inventory control and scheduling. Uses common decision-making issues and related qualitative and quantitative techniques.

TMC 430 Enterprise Strategy & Innov

Enterprise strategic plan development and implementation, concepts of open innovation; vision, mission, steps of strategic plan development; strategic goals, objectives, tasks, schedule, resource considerations; organization’s strengths and weaknesses; environmental opportunities and threats; strategy implementation, impact assessment and refinement, organizational- and management considerations, theory and practice of open innovation.

TMC 470 Project Management

Introduces techniques for managing small groups within larger organizations, including team building, motivating, planning, tracking activities, and computer tools.
TMC 470 Enterprise Planning & Implementation

Investigates and tests tools and techniques for effective design and management of enterprise projects and programs using computer applications. Develops and demonstrates teambuilding and leadership skills in course projects.

TMC 480 Senior Project

Capstone project experience refining skills in communication, research and information retrieval, critical analysis and criticism, and demonstrating technical competence in each student's area of study.

MCO 101 Everyday Grammar

Helps students master the elements of English grammar.

MCO 102 Fundamentals of Coding

Provides a basic understanding of how the Internet works, knowledge of how to create and upload Web pages, and a basic introduction to programming with JavaScript. Assumes no previous knowledge of any of the topics, although requires basic knowledge of how to use a Web browser and navigate the Web.

MCO 120 Media and Society

Role of newspapers, magazines, radio, television, and motion pictures in American society. Designed for nonmajors.

MCO 194 Special Topics

Everyday Grammar

Covers topics of immediate or special interest to a faculty member and students.
MCO 194 Special Topics
Fundamentals of Coding
Covers topics of immediate or special interest to a faculty member and students.

MCO 240 Media Issues Amer Pop Culture
Examines the production and consumption of popular culture as disseminated by the mass media with emphasis on the societal implications.

MCO 302 Media Research Methods
Surveys research methods used in the social sciences, with a focus on mass communication.

MCO 307 The Digital Audience
Who are the people who make up digital audiences? How do digital audiences behave? And why is it important to research, identify and monitor digital audiences and their engagement with your organization? This course introduces the student to the very essence of the digital audience, exploring how community, consumer, social psychology and theory converge on digital platforms and social networks. Through case-study analyses, students learn how audiences differ across industries and platforms, the elements that engage or dissuade users, and how organizations use audience data to manipulate growth strategies.

MCO 307 The Digital Audience
Introduces students to the foundations of digital strategy, including audience research, social media campaigns, SEO, analytics, audience targeting, goal setting and more. Through hands-on exercises with real brands, students learn how audiences differ across industries and platforms, approaches for engaging users, and how organizations use audience data to create growth strategies.
MCO 335 Social Media

Surveys the social media landscape: what are social media platforms, who uses them, and how are they transforming the way we inhabit the world? Explores and critically analyzes the social, cultural, legal, ethical, economic and technological dimensions of social media environments from Facebook to Foursquare, Twitter to Flickr and beyond.

MCO 366 Media Ethics and Diversity

Explores contemporary news media ethical problems in a seminar setting. Uses journalism and mass communication ethical perspectives to obtain keys to unlock contemporary dilemmas surrounding the news media.

MCO 403 Media Law

Provides a grounding in the laws and regulations that govern various aspects of the media with a focus on First Amendment guarantees and privileges and the extent to which those have been limited by courts and lawmakers. Topics include freedom of expression, libel, privacy and obscenity.

MCO 418 History of Mass Communication

American journalism from its English and colonial origins to the present day. Development and influence of newspapers, magazines, radio, television, and news gathering agencies.

MCO 425 Digital Media Literacy

Helps students begin to navigate the 21st-century media, starting by becoming active users of media, not just passive consumers. The Internet-fueled democratization of media creation has enabled anyone to be a publisher, and given audiences’ almost infinite choices, with both great and questionable effects. In a world of information abundance, it can be difficult to discern fact from opinion and truth from fiction. We need to know how to wade through this barrage of information with a critical eye, to be better informed, and ultimately become creators of media ourselves.
MCO 425 Digital Media Literacy I

Helps students begin to navigate the 21st-century media, starting by becoming active users of media, not just passive consumers. The Internet-fueled democratization of media creation has enabled anyone to be a publisher, and given audiences' almost infinite choices, with both great and questionable effects. In a world of information abundance, it can be difficult to discern fact from opinion and truth from fiction. We need to know how to wade through this barrage of information with a critical eye, to be better informed, and ultimately become creators of media ourselves.

MCO 426 Digital Media Literacy II

Discusses digital media consumption to some degree, but focuses more on media creation and the many issues we need to understand for best practices. Students learn the importance of understanding the tools and techniques of media creation, and how media are used to persuade, the ethical and legal issues in creating media, policy issues that can (or will) affect media creation, and an assortment of media-creation techniques.

MCO 430 International Mass Communicatn

Comparative study of communication and media systems. Information gathering and dissemination under different political and cultural systems.

MCO 435 Social Media

Explores and critically analyzes the social, cultural, legal, ethical, economic, and technological dimensions of social media tools from Facebook to Foursquare, Twitter to Flickr and beyond.
MCO 435 Social Media

Surveys the social media landscape: what are social media platforms, who uses them, and how are they transforming the way we inhabit the world? Explores and critically analyzes the social, cultural, legal, ethical, economic and technological dimensions of social media environments from Facebook to Foursquare, Twitter to Flickr and beyond.

MCO 436 Audience Research and Behavior

Prepares students to undertake or manage research on customers, employees, readers, viewers, influencers and others with whom an organization seeks to communicate or build relationships. Digital data have profoundly reshaped how organizations mine and interpret audience data, so the course introduces new techniques and tools for developing audience insights, as well as traditional qualitative and quantitative research methods.

MCO 437 Aud Acquisition & Engagement

Students learn how to attract and grow audiences on established and emerging digital platforms. Students discover tactics and strategies for targeting, obtaining and engaging audiences by leveraging social media, search marketing and SEO, digital content, ecommerce, digital advertising and others.

MCO 438 Digital Audience Analysis

Students discover how to access, manipulate and translate audience data. Students learn how to mine data from Web sites, social networks, apps, email campaigns and video platforms, and how to use analysis tools and techniques to translate metrics into valuable, actionable insights that drive engagement strategies and business decisions. By working with real audience data, students receive hands-on analysis and reporting experience.
MCO 439 Digital Audience Growth

Capstone challenges students to synthesize their digital audience knowledge and skills acquired in the previous courses through an applied project. Working with a real client and live, ever-changing data, students work to increase and engage the client’s digital audience, executing a growth campaign from audience identification, targeting and strategy development to implementation, engagement and measurement.

MCO 450 Visual Communication

Theory and tradition of communication through the visual media with emphasis on the continuity of traditions common to modern visual media.

MCO 456 Political Communication

Theory and research related to political campaign communication. The persuasive process of political campaigning, the role of the media, the candidate, and image creation.

MCO 456 Political Communication

Explores the intersection of media and politics and examines how the political system works and how journalists cover politics, political campaigns and elections. Students gain knowledge of opinion polling, debates, campaign finance, the party system, political communication, issues coverage, fact checking, crowd sourcing and more.

MCO 460 Race, Gender, and Media

Readings seminar designed to give students a probing examination of the interface between AHANA Americans and the mass media in the United States.
MCO 465 Sports and Media

Designed for aspiring journalists and media users, explores why great sports journalism is essential to our society. Establishes the goals, dreams, and expectations for sports journalism and introduces ethical philosophy and popular ethical models and decision-making tools. Students then apply these tools to sports journalism.

MCO 470 Exploring Business Of Journalism

Exposes students to broad media management problems. Focuses on how essential the bottom-line and quality journalism are to the entire journalistic and mass communication enterprise; helps students think about how to balance those two concerns.

MCO 473 Sex, Love, Romance-Mass Media

The role of the mass media in constructing and/or reinforcing unrealistic mythic and stereotypic images of sex, love, and romance.

MCO 494 Special Topics
Journalism as Literature
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Digital Media Literacy
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Science Intersects Journalism
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
CronkIreland: Vis. Storytelling
Covers topics of immediate or special interest to a faculty member and students.
MCO 494 Special Topics
Tech, Dig.Media &Social Issues
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Media & Free Express 21st Cent
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Media Law
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Media Ethics and Diversity
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Digital Media Literacy II
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
ExploringBusinessOfJournalism
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Data in Sports
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Gender in the Media Workplace
Covers topics of immediate or special interest to a faculty member and students.
MCO 494 Special Topics
War and Media
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Food and Media
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Media Entrepreneurship
Covers topics of immediate or special interest to a faculty member and students.

MCO 494 Special Topics
Media Products, Sales & Solutions
Covers topics of immediate or special interest to a faculty member and students.

MCO 503 Media Law
Exames the philosophical and legal aspects of press freedom with an emphasis on the First Amendment from 1791 to present.

MCO 510 Data Journalism
Students use data to tell stories, employing computer spreadsheets, database software, mapping programs and statistical techniques and learn how these tools can be used across a wide variety of beats and stories. Students negotiate with government officials for public records and use the internet and other online sources to find information and sources for stories.
MCO 550 Issues in Coverage of Bus&Econ

This seminar course focuses on the critical study of business and economic coverage in all media, with emphasis on quality, clarity and differences. Students will be assigned specific companies and economic issues to follow throughout the semester and will work on a final project appropriate to their personal journalism career goals.

MCO 550 Issues in Coverage of Bus&Econ

Exposes the basics of business and economic reporting, one of the fastest-growing areas of journalism. Students learn what skills are needed to cover business and economic stories as well as the basics of how private companies operate and the factors that drive the economy. They also learn about opportunities in the field and hear from leaders in business journalism.

MCO 550 Issues in Coverage of Bus&Econ

Teaches the basics of business and economics reporting, one of the fastest-growing areas of journalism. Students learn what skills are needed to cover business and economic stories as well as how private companies operate and the factors that drive the economy. They also learn about opportunities in the field and hear from leaders in business journalism.

MCO 551 Better Business Reporting

Provides training and practice in reporting and writing stories related to business and the economy. Students learn tools and techniques to enhance their coverage of various kinds of business stories, from profiles to financial reports. They learn best practices for pitching stories, cultivating sources, conducting effective interviews, structuring stories, using appropriate narrative elements and translating complex information for a general audience.
MCO 552 Data in Business Journalism

Students learn how to find powerful business and economic data from U.S. sources such as the Census Bureau, the Bureau of Labor Statistics, the Securities and Exchange Commission and the Federal Reserve. Examines international data sources of the United Nations, the World Bank, the European Union and the statistics offices of various countries. Covers basic mathematical and statistical formulas for working with business data, how to find stories in data using tools such as Microsoft Excel and Google Fusion Tables and how to create basic data visualizations that are useful for understanding business and economic trends.

MCO 556 Media Entrepreneurship

Familiarizes students with media entrepreneurship and innovation in a quickly changing digital media environment. Students study the principles of entrepreneurship and innovation, assess their own tolerance for risk, evaluate opportunity and market conditions, and learn about various revenue models for entrepreneurial enterprises.

MCO 561 Defining the Digital Audience

Who are the people who make up digital audiences? How do digital audiences behave? And why is it important to research, identify and monitor digital audiences and their engagement with your organization? Covers the very essence of the digital audience, exploring how community, consumer, social psychology and theory converge on digital platforms and social networks. Through case-study analyses, teaches how audiences differ across industries and platforms, the elements that engage or dissuade users, and how organizations use audience data to manipulate growth strategies.
MCO 562 Srch Engine Strat Dig Aud Acq

How to attract and grow audiences through strategic use of search engine marketing. Includes user search behavior, SEO (search engine optimization), tagging and coding for on-page SEO, SEM (search engine marketing), keyword research, competitive analysis, domain authority and pay-per-click advertising.

MCO 563 Social Media Campaign & Engage

How to attract, engage and grow audiences on social media platforms through both organic and paid social media campaigns. Includes evaluating an organization's existing social media audience, identifying opportunities for audience growth across social media platforms, designing and generating content for specific platforms, measuring the impact of social media content, and developing an organizational strategy for managing social media across an enterprise.

MCO 564 Digital Aud Research&Behavior

Provides skills to undertake research on digital audiences, customers, viewers, influencers and others with whom an organization seeks to communicate or build relationships. Digital data have profoundly reshaped how organizations mine and interpret audience data. Digital audience research as a subset of social research. Overviews both traditional and newer research methods for developing audience insights.

MCO 565 Digital Audience Analytics

Provides skills to access, manipulate and translate audience data. How to mine data from websites, social networks, apps, email campaigns and video platforms, and how to use analysis tools and techniques to translate metrics into valuable, actionable insights that drive engagement strategies and business decisions. Works with real audience data to receive hands-on analysis and reporting experience.
MCO 566 Digital Audience Management

Challenges students to synthesize their digital audience knowledge and skills acquired in previous courses through a culminating experience. Working with a real client and live, ever-changing data, students work to increase and engage the client's digital audience, executing a growth campaign from audience identification, targeting and strategy development to implementation, engagement and measurement.

MCO 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

MCO 598 Special Topics
Crit Analysis Business Journ
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MCO 598 Special Topics
Media Entrepreneurship
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MCO 598 Special Topics
Media & Free Express 21st Cent
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MCO 598 Special Topics
Gender in the Media Workplace
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MCO 598 Special Topics
Viewership: How We Watch
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MCO 598 Special Topics
Diversity in Digital Audiences
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MCO 598 Special Topics
MediaProducts, Sales & Solutions
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HCI 150 Intro Health Innovation
Introduces health innovation and varying elements of
innovation including models of innovation, technology and
current health innovative ideas and practices. The seven
pillars of innovation, decision making in innovation, and how
technology plays a part in the innovative process. Researches
and discusses current and cutting edge innovations and
reviews the stakeholders who are essential players in the
health innovation process.

HCI 194 Special Topics
Intro to Health Innovation
Covers topics of immediate or special interest to a faculty
member and students.
HCI 250 Health Entrep & Value Creation

Explores employing innovative solutions through entrepreneurial activities in health and health care. Prepares students to seek value creation opportunities in health and health care settings through opportunity recognition, value creation and business modeling. Students create an innovative change idea, demonstrate proficiency in lean startup methodologies and pitch a ready-to-launch idea.

HCI 294 Special Topics
Health Entrepren & Value Creat
Covers topics of immediate or special interest to a faculty member and students.

HCI 311 Intro to Healthcare Innov

Organized around the Seven Pillars of Innovation: innovation process, leadership structure, outcomes, evidence-based practice, finance, policy, and technology and communication. Provides basic definitions and principles of innovation in addition to characteristics, skills and knowledge required for the innovator.

HCI 311 Health Innovation: Found Conc

Organized around the Seven Pillars of Innovation: innovation process, leadership structure, outcomes, evidence-based practice, finance, policy, and technology and communication. Provides basic definitions and principles of innovation in addition to characteristics, skills and knowledge required for the innovator.

HCI 313 Phil of Science in Healthcare

Philosophy of science and its application to health and healing paradigms. Employs selected schools of thought and individual philosophers within philosophy of science to closely examine health and healing paradigms. Discusses concepts such as “life” and “death”. Explores questions: What is science? What is health? Examines the way in which philosophy of science informs perceptions and definitions of health and healing in individuals and populations.
HCI 412 Transforming Health Care

Basic elements of systems thinking as a framework for innovation in addressing current and future issues in health care. Focuses on what occurs at the intersection of disciplines as being fundamental to transforming health care. Stresses the importance of collaboration to the systems perspective, in addition to the value of individual worldviews.

HCI 421 Healthcare Policy

Innovation perspective on policy decision making in the health care environment. This perspective views policy-making as a fluctuating, dynamic and evolving process as seen through a lens of innovation principles. Explores the relationship between politics and policy and discusses factors influencing policy development. Identifies methods to formulate and implement policy and presents models to evaluate, analyze and modify health care policy.

HCI 425 Facilitating Innovation

Principles of facilitation that promote and enable the implementation of innovation to achieve outcomes. This approach identifies facilitation as requiring input seeking, ongoing evaluation, and emergent correction of an existing plan of action. Discusses characteristics of effective teams, innovation leadership behaviors that impact change, and involvement of end-users. Compares and contrasts traditional project management processes with innovative facilitation techniques.

HCI 428 Technology in Healthcare Innov

Analyzes the role of technology in achieving the Triple Aim: improved quality, improved patient experience, and decreased cost. Discovers tools that are defined as health information technology and those that support business services. Compares and contrasts tools of technology that hold the potential to advance innovation in health care.
HCI 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

HCI 538 Innovation and the Individual

Introduces the role of the innovator, including the essential behaviors of risk taking, managing workload, and addressing the challenges of innovation.

HCI 540 Applying Principles of EBP

Understanding how application of evidence-based practice principles assists healthcare professionals to provide the best care. May be repeated once for credit.

HCI 542 Systems Thinking

Examines basic and advanced systems principles as they relate to national and international health and healing systems. Specific emphasis is given to systems thinking from a complexity science perspective and the implications for innovation.

HCI 543 Leading Healthcare Innovation

Theory-based survey course introduces approaches to lead innovation in an organization. Many change initiatives are designed by those not completing the work, leaving workers isolated, restricted and powerless. Teaches health care leaders to value collaboration with and seeking input from those who will carry out the work. Analyzes approaches to planned change: positive deviance, appreciative inquiry and creation of a learning organization. Students construct a change plan using an appropriate approach to address a health care problem.
HCI 543 Approaches Health Care Innov

Theory-based survey course introduces approaches to lead innovation in an organization. Many change initiatives are designed by those not completing the work, leaving workers isolated, restricted and powerless. Teaches health care leaders to value collaboration with and seeking input from those who will carry out the work. Analyzes approaches to planned change: positive deviance, appreciative inquiry and creation of a learning organization. Students construct a change plan using an appropriate approach to address a health care problem.

HCI 544 IT for Healthcare Innovation

Focuses on the information technology (IT) trends and their strategic application in healthcare. Students develop an IT strategy that addresses a specific healthcare area of concern. Students gain an understanding of the role of IT in healthcare innovation and develop skills in business process improvement, change management, strategy definition, value proposition, responding to feedback and managing resistance.

HCI 544 IT for Health Care Innovation

Focuses on the information technology (IT) trends and their strategic application in health care. Students develop an IT strategy that addresses a specific health care area of concern. Students gain an understanding of the role of IT in health care innovation and develop skills in business process improvement, change management, strategy definition, value proposition, responding to feedback and managing resistance.

HCI 545 Public Speaking for Innovation
New ideas take a lot of explaining, and innovation often involves persuasion. Builds presence as a speaker and a leader—and gains expertise in public speaking for innovation. Public speaking for innovation is a combination of finding and building one's presence as a speaker and a leader—and translating that to an ability to explain and persuade, making the case for change. Students build their presence and gain the foundational knowledge necessary to successfully explain and persuade in innovation contexts.

HCI 548 Adv Princ&Concepts Innovation

Explores and analyzes the innovation in complex systems, focusing on developing specific skills for successful innovations.

HCI 550 Healthcare Policy & Innovation

Introduces the political, organizational, and economic dimensions of healthcare policy, emphasizing strategies for innovative policy and practice.

HCI 550 Health Care Policy & Innovation

Introduces the political, organizational, and economic dimensions of health care policy, emphasizing strategies for innovative policy and practice.

HCI 552 Financing for Innovation

Provides an overview of healthcare economics; develops budgeting, planning, and management skills; and culminates in financial analysis skills necessary to facilitate management decision making or writing business plans or grant proposals.

HCI 554 Outcomes Evaluation

Outcomes measurement, management, and evaluation for healthcare practitioners and/or leaders. May be repeated once for credit.
HCI 554 Outcomes Evaluation

Outcomes measurement, management, and evaluation for health care practitioners and/or leaders.

HCI 561 Innovation Methods

Capstone project to learn the active skills of healthcare innovation using an adapted IDEO model.

HCI 561 Innovation Methods

Innovation methods for use in a health care setting. Helps students generate ideas, explore appreciative inquiry and demonstrate competencies related to the theories and processes of innovation.

HCI 563 Capstone: Final Project

Applies the concepts learned in MHI core courses and presents evidence of knowledge in innovation principles, applications and strategies for implementation and evaluation. Develops an innovation project in the form of a mindmap. Provides a comprehensive methodology for completing all aspects of an innovation opportunity. Student-directed demonstrations of the application of learned leadership skills and techniques for facilitating team and individual implementation.

HCI 570 Innovation Proposal

Applies concepts learned and operationalizes skills acquired throughout the Health Care Innovation certificate. Students envision emerging paths toward an outcome by first presenting a problem they have identified within a health care organization, and creating collaborative relationships and developing strategies to initiate change in their chosen setting.
HCI 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HCI 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

HCR 210 Clinical Health Care Ethics

Healthcare ethics emphasizing analysis and ethical decision making at clinical and health policy levels for healthcare professionals.

HCR 210 Ethics HealthCare Professional

Health care ethics emphasizing analysis and ethical decision making at clinical and health policy levels for health care professionals.

HCR 220 Intro Nursing&Health Care Sys

Introduces the social, political, and economic contexts in which the nursing profession and health care systems in the United States evolved.

HCR 220 Intro Health Professions U.S.

Introduces the historical, social, political, economic and interprofessional contexts in which health care professions and the United States health care system evolved.

HCR 221 Fndntl Cncpts Hlth Care Cord

Focuses on the foundational elements of health care coordination. Discusses the health care coordination process including assessment, implementation and evaluation.
HCR 230 Culture and Health

Cultures of diverse groups and health/illness. Cross-cultural communication, awareness of own cultural influences, indigenous and alternative healing practices.

HCR 231 Fund of Comm Health

Provides a framework for understanding community health concepts.

HCR 240 Human Pathophysiology

Chemical, biologic, biochemical, and psychological processes used in study of structural and functional alterations in health with selected therapeutics.

HCR 241 Fndtions of Integratv Health

Discusses the similarities and differences of the biomedical and integrative health care systems providing an overview of integrative health.

HCR 260 Health Care Industry

Overview of the complex system of regulations that frame the oversight and monitoring of the U.S. health care industry. Provides a foundational understanding of federal and state regulations as well as private health care regulatory agencies’ requirements as they relate to physicians and other health care professionals, hospitals and other health care institutions, and insurance companies.

HCR 261 Health Care Compliance

Introduces health care compliance as an industry and a profession. Explores federally legislated mandates for formal compliance programs, program elements and organizational steps for program implementation in specific health care settings.
HCR 262 Health Care Licensure

Introduces interprofessional practice, professional licensure, education and training, certification and scope of practice within the health care industry. Explores compliance standards and accreditation as they relate to the authority and scope of licensure boards, which are designed to safeguard the public health.

HCR 263 Intro to Medical Billing

Introduces the complex process of medical coding and billing practices and related federal regulations and programs. Provides learners with a fundamental understanding of medical coding and billing processes including terminology, stakeholders and regulatory impact.

HCR 264 Regulatory Essentials I

Offers a comprehensive overview of the regulations that impact the health care delivery industry. These regulations include: protections against fraud and abuse, patient rights and privacy, protected health information (PHI) and electronic protected health information (ePHI), and occupational health and safety.

HCR 265 Regulatory Essentials II

Comprehensive study of the creation, management and evaluation of all aspects of a formal health care compliance program. Learners investigate and discuss roles of the compliance officer and compliance committee, risk analysis, recommendations for and implementation of corrective action.

HCR 301 Rsrch Mthds for Hlth Care Prof

Explores basic concepts of qualitative and quantitative research design utilizing methods of assessment, planning, implementation and evaluation.
HCR 302 Social Determinants of Health

Addresses issues of social determinants and health disparities at the local, national and global levels.

HCR 303 Assess Nds Assts Cap Hlth Ed

Assesses needs, assets and capacity for health education at the individual, family and community levels.

HCR 320 Fndntl Cncpts Hlth Care Cord

Focuses on the foundational elements of health care coordination. Discusses the health care coordination process including assessment, implementation and evaluation.

HCR 321 Advcd Cncpts Hlth Care Cord

Presents advanced concepts for health care coordination, including: interprofessional teamwork, medication reconciliation, patient/family engagement and other tools that facilitate best practices for health care coordination. Students also learn models for health care coordination, and concepts and practices to facilitate transitions of care.

HCR 330 Fund of Comm Health

Provides a framework for understanding community health concepts.

HCR 331 Communication Within Commun

Focuses on the integral nature of communication in health care, including the role communication plays in shaping individual, social and cultural beliefs and expectations about health. Provides skills for effective communication when working with individuals, groups and the media.
HCR 335 Prog Develop Mngmt Comm Hlth

Incorporates models, research and resource management to plan, strategize and evaluate community programs that promote healthy lifestyle choices in various, as well as specific, geographic communities.

HCR 336 Environm Community Health

Examines the interdependent relationship between the health of the environment and the health of communities. Includes a focus on specific communities, as well as agencies and laws involved in the health of communities.

HCR 340 Fndtions of Integratv Health

Discusses the similarities and differences of the biomedical and integrative health care systems providing an overview of integrative health.

HCR 341 Bio, Manipultv,Bdy Bsd Therap

Analyzes the principles and practices of select biological and body-based therapies and modalities and their use in the health care system.

HCR 342 Mnd Bdy Enrgy Theraps Modalit

Analyzes the principles and practices of select mind-body and energy therapies and modalities and explains and distinguishes their use in the health care system.

HCR 343 Hist Cltrl Fnd Integrtv Hlt Cr

Distinguishes commonalities and differences between early healing traditions and investigates the utility for today’s health care system.
HCR 350 Intro Clinical Research Mgmt

Provides an introduction to the biomedical and clinical research field and associated operational processes. Examines clinical trial development phases, regulatory protections for human subjects, clinical research team specializations, research organizations, good clinical practice, institutional review board functions, and research funding mechanisms. Explores specialized career positions for nursing and allied health professionals.

HCR 350 Intro Clinical Research

Provides an introduction to the biomedical and clinical research field and associated operational processes. Examines clinical trial development phases, regulatory protections for human subjects, clinical research team specializations, research organizations, good clinical practice, institutional review board functions, and research funding mechanisms. Explores specialized career positions for nursing and allied health professionals.

HCR 400 Evd-Bsd Prac Hlthcare Prof

Methods of clinical and scientific inquiry. Focuses on the application of an evidence-based practice approach.

HCR 406 Hlth Litrcy for Hlth Cr Prof

Prepares students to use best practices for health communication that promote consumer health literacy.

HCR 420 Prof Role Dvel: Hlth Care Cord

Professional role development including role transition, leadership and project management for health care coordination.
HCR 422 Pcly Fincl Prncpl Hlth Cr Cor

In-depth look at the history of health care policy in the United States from World War II to the present focusing on how Medicare, Medicaid and the Affordable Care Act impact health care system and patient reimbursement. Also discusses elements of insurance, managed care and universal care.

HCR 426 Hlth Care Coord Capstone

Applies higher-level critical thinking, teamwork, effective communication, informatics and design process required to develop a “real-world” health care coordination solution that will be a catalyst for change by improving safe patient-centered transitions, lowering readmission rates, increasing patient safety, and/or decreasing the cost of care.

HCR 430 Fndn to Hlth Care Systems

Explores the impact of the current U.S. health care system on the health of individuals, families and communities.

HCR 435 Leaders in Community Health

Prepares students to assume a leadership role in health promotion in communities.

HCR 439 Community Health Seminar

Provides the opportunity to explore the health status of communities and to develop strategies for community health improvement.

HCR 439 Community Health Capstone

Provides the opportunity to explore the health status of communities and to develop strategies for community health improvement.
HCR 440 Intrprof Appch Intgrtv Hth Cr

Prepares learners to develop and lead interprofessional teams with a focus on roles and responsibilities of integrative health care providers and practitioners.

HCR 441 Lgl Eth Iss Imp Intgrv Hlthcar

Examines current laws, government regulations, ethical principles and case studies to understand issues and consumers’ use of integrative modalities.

HCR 449 Integratv Hlth care Capstone

Provides the opportunity to design a healing environment project that reflects the philosophy, mission and values of a health care organization in relation to underlying philosophy and beliefs of integrative health care.

HCR 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

HCR 545 Biospec Repos Admin

Examines the biospecimen repository industry from a business perspective. Students learn the scientific basis, collaborative nature, required personnel, timelines and processes that underlie the business environment of biospecimen repositories and their administration.
HCR 546 Mgmt of Biospec Repos

Examines the biospecimen repository industry from an operational perspective. Students learn the process aspects of repository start-up through collection, maintenance and disbursement of specimens. Key elements include personnel training, planning, quality control, risk management, project management and safety implementation.

HCR 551 Clinical Research Monitoring

Introduces clinical trial monitoring processes and procedures.

HCR 552 Medical Device Regulation

Comprehensive examination of the regulatory framework for the design, development, approval/clearance and marketing of medical devices in the United States throughout the product lifecycle.

HCR 553 Quality and Clinical Research

Explores basic quality assurance techniques, standards and applications in the clinical research arena.

HCR 555 Pharma Risk Management

Comprehensive examination of regulatory, legal, and scientific factors in pharmacovigilance and risk management and risk mitigation.

HCR 557 Research Method Regulatory Sci

Focuses on the assessment of ethical design and methods used in clinical research and regulatory science; measurement issues in conducting research across diverse populations; relability, validity, bias and confounding; and appropriate statistical measurement and analysis for given study designs.
HCR 557 Clinical Research Design Methods

Explores basic clinical trial biostatistical methods in concert with clinical trial design and methods.

HCR 558 Regulatory Writing

Focuses on teaching and applying writing and presentation skills critical for regulatory professionals.

HCR 558 Regulatory Writing

Focuses on teaching and applying writing and presentation skills critical for regulatory professionals.

HCR 561 Conduct of Clinical Research

Introduces concepts and policies for the responsible conduct of research (RCOR), institutional review boards, and dissemination of findings.

HCR 562 Data Management & Technology

Orientation to database design and management, technology assessment methods, auditing procedures for continuous quality improvement (CQI), and cost-effectiveness analysis (CEA).

HCR 563 Regulatory Affairs

Principles of clinical research management and regulatory affairs. Overview of national/international regulatory systems and agencies, and trends in conducting clinical research.

HCR 564 Research Management Capstone

Culmination course integrating all components of CRM core courses demonstrating knowledge and competency in designing and managing clinical trials. Students must have documentation of unencumbered professional license in the state where the capstone project will be completed, if required.
HCR 565 Clinical Research Operations

Development, implementation, and operations of FDA clinical research trials, including budgeting, contract negotiations, site evaluation, marketing, project management, and reporting.

HCR 566 Research Management Capstone

Culmination course integrating CRM degree coursework by demonstrating knowledge and competency in clinical research management planning, operations, and implementation processes.

HCR 567 Applied Cost-Effectiveness

Principles and methods of cost-effectiveness analysis and the application to interpreting clinical trial and sociobehavioral intervention results

HCR 567 Research Management

Management and leadership principles integrated with contemporary research topics will be introduced.

HCR 568 Healthcare Project Management

Designed for graduate students and managers who desire to improve their effectiveness as project managers in the healthcare context.

HCR 568 Health Care Project Management

Designed for graduate students and managers who desire to improve their effectiveness as project managers in the health care context.

HCR 574 IRB and Human Research

Analyzes the value and functions of the Institutional Review Board (IRB), including the basis for the IRB’s authority and the regulations that govern an IRB’s activities. Topics include IRB operations and ethical issues. Explores the historical basis for regulating research.
HCR 574 Science & Research Review Boards

The role and responsibilities of Scientific and Research Review Boards in the conduct of human research.

HCR 575 Contracting and Budgeting

Examines best practices in contracting, negotiating and budgeting for industry-sponsored clinical trials.

HCR 576 Drug Discovery, Development & Regulation

Covers the drug discovery and development process from bench to market, including bench and animal research, FDA approval for human studies (Investigational New Drug submission), Phase I-IV clinical studies, New Drug Application, marketing and post approval surveillance. Reviews applicable regulations, laws, guidance documents, good clinical practices related to drug development in the U.S. and globally.

HCR 577 Global Regulatory Affairs

Covers regulatory authorities, processes, procedures, International Conference on Harmonisation (ICH) guidelines and documentation for the marketing approval of new medical products in the U.S., European Union (EU), Asia and emerging countries. Reviews global regulatory submissions, focusing on the organization and requirements of the Common Technical Document (CTD) global sections. Also reviews global trends, ethical considerations, country-specific considerations and cultural considerations.

HCR 578 Legal Aspects of Clinical Resource

Reviews the legal implications related to conducting clinical research. Covers current topics and legal issues, standards, duty of care, informed consent, research contracts, malpractice, negligence, informed consent, liability, clinical trials and criminal law, disclosures of clinical information, and liability. Students review and discuss recent research cases and litigation on a wide range of legal issues.
HCR 579 Trans Rsrch Drug Discovery&Dev

Reviews the translation of new drug research from bench to FDA approval. Provides an overview and history of the translational process in the discovery of new drugs and biologics used in the treatment of medical conditions. Topics include: addressing the gaps in drug development, new approaches to speed the process from bench to FDA approval, and the provision evidence-based medicine for sustainable pharmaceutical products utilized in medical treatment.

HCR 598 Special Topics
Clinical Research Monitoring
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HCR 598 Special Topics
IRB and Human Research
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HCR 598 Special Topics
Research Mgmt Cont Rsch Tpcs
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HCR 598 Special Topics
MedDeviceDevelop&Regulation
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MHI 538 Innovation and the Individual

Introduces the role of the innovator, including the essential behaviors of risk taking, managing workload, and addressing the challenges of innovation.

MHI 540 Applying Principles of EBP

Understanding how application of evidence-based practice principles assists healthcare professionals to provide the best care. May be repeated once for credit.

MHI 542 Systems Thinking

Studies basic and advanced systems principles as they relate to the American healthcare system. Specific emphasis is given to system assessment, designing system interventions, and managing system dysfunction from the innovator's perspective.

MHI 548 Adv Princ&Concepts Innovation

Explores and analyzes the innovation in complex systems, focusing on developing specific skills for successful innovations.

MHI 550 Healthcare Policy & Innovation

Introduces the political, organizational, and economic dimensions of healthcare policy, emphasizing strategies for innovative policy and practice.

MHI 552 Financing for Innovation

Provides an overview of healthcare economics; develops budgeting, planning, and management skills; and culminates in financial analysis skills necessary to facilitate management decision making or writing business plans or grant proposals.
MHI 554 Outcomes Evaluation

Outcomes measurement, management, and evaluation for healthcare practitioners and/or leaders. May be repeated once for credit.

MHI 561 Capstone Innovation Project I

Capstone project to learn the active skills of healthcare innovation using an adapted IDEO model.

MHI 561 Innovation Methods

Capstone project to learn the active skills of healthcare innovation using an adapted IDEO model.

MHI 563 Capstone Innovation Projekt III

Finalizes the process of conceptualizing an innovation and building a plan or proposal to move forward with the innovation in either an entrepreneurial or intrapreneurial context.

MHI 563 Capstone: Final Project

Applies the concepts learned in MHI core courses and presents evidence of knowledge in innovation principles, applications and strategies for implementation and evaluation. Develops an innovation project in the form of a mindmap. Provides a comprehensive methodology for completing all aspects of an innovation opportunity. Student-directed demonstrations of the application of learned leadership skills and techniques for facilitating team and individual implementation.

MHI 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
MHI 584 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

MHI 591 Seminar
Innovation Methods
A small class emphasizing discussion, presentations by students, and written research papers.

MHI 591 Seminar
IT Strategy in Healthcare
A small class emphasizing discussion, presentations by students, and written research papers.

NUR 315 Methods & Critical Appraisal EBP
Scientific and clinical inquiry, research methodology, and critical appraisal in the synthesis of research findings for application in evidence-based nursing practice.

NUR 315 Nursg Rsch Appl to Prac

NUR 315 Nursg Rsch Appl to Prac
Provides scientific and clinical inquiry and research methodology along with concepts needed for integration of evidence into practice.

NUR 318 Nurs Rsrch & Evidence Transltn
Explores the process of scientific and clinical inquiry, research methodology, critical appraisal of research findings, and the translation of current evidence into nursing practice.

NUR 391 Professional Nursing Theory
Analyzes the multiple dimensions of contemporary professional nursing.
NUR 392 Hlth Prom Across the Life Span

Examines concepts and theories involved in health promotion across the lifespan and their application for nurses.

NUR 394 Special Topics
Prof Nursing Project
Covers topics of immediate or special interest to a faculty member and students.

NUR 394 Special Topics
Innovation in Nursing
Covers topics of immediate or special interest to a faculty member and students.

NUR 394 Special Topics
Capstone Application Project
Covers topics of immediate or special interest to a faculty member and students.

NUR 394 Special Topics
Promtng Hlth of Famlies
Covers topics of immediate or special interest to a faculty member and students.

NUR 394 Special Topics
Nursing Theries Rlatd Prof Prac
Covers topics of immediate or special interest to a faculty member and students.

NUR 394 Special Topics
Nursing Management
Covers topics of immediate or special interest to a faculty member and students.

NUR 440 Community&Public Health Nursin

Examines selected concepts, theories and applications of epidemiology, community assessment, and population-centered health education for community and public health nursing in the United States.
NUR 444 Theory IV: Health Integrity/Alt RNs

Advanced concepts related to health integrity and alterations in that integrity, with focus on selected client populations.

NUR 444 Innovation in Nursing

Examines the role and behaviors of an innovator in the nursing profession.

NUR 445 Theory V: Leadership/Mgmt RNs

Selected theories and concepts of organizations, management, leadership with focus on selected client populations for experienced RNs.

NUR 445 Nursing Management

Examines selected theories and concepts of organizational behavior and the management of people and resources. Focuses on the application of selected management theories and concepts to nursing practice and healthcare systems.

NUR 445 Nursing Management

Examines selected theories and concepts of organizational behavior and the management of people and resources. Focuses on the application of selected management theories and concepts to nursing practice and healthcare systems.

NUR 460 The Art of Nursing

Explores the aesthetic, ethical, and personal patterns of knowing in nursing for the practicing RN.

NUR 464 Prof Development IV for RNs

Capstone professional development course for the RN student.
NUR 464 Capstone Prof Nursing

Synthesizes theories and concepts for professional nursing practice with a focus on role transition.

NUR 495 Public & Global Health in Nurs

Analyzes public health concepts, theories, and practice with a focus on the health of all clients in a global environment. Includes core public health functions, domestic and international health care delivery systems, public health and health policy, conceptual and scientific frameworks for community/public health nursing practice, epidemiology, and global health issues.

NUR 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

FIS 201 Innovation in Society

In the modern age, governments, multinational corporations and civil society movements have rallied around the idea that innovation is necessary for the maintenance of health, prosperity and the good life in general. Examines the vast implications of this promise, the reasons why it is so powerful and explanations for why it falls short. Also examines what innovation is, who funds it and why some innovations succeed while others fail. Links innovation with society to see how change happens differently in different places and how diverse populations are impacted.
FIS 337 Innovation and Global Developm

International development, the role of technology and innovation, and the current era of globalization. Focuses primarily on socioeconomic development. The globalization of the world economy, with the end of the Cold War, and the advent of global information and communications technologies, has had significant implications for development around the globe. While wealth is rising in many countries and among certain social classes, there is still overwhelming poverty, lack of access to clean water, adequate nutrition, and health services for the majority of people in the world. This is not a new situation; however the advent of the recent era of globalization, which includes both political and technological changes, is a variable that influences development in complex ways.

FIS 394 Special Topics
Antarctica: Frozen Continent
Covers topics of immediate or special interest to a faculty member and students.

FIS 394 Special Topics
Antarctica: Humans&Environment
Covers topics of immediate or special interest to a faculty member and students.

FIS 494 Special Topics
Comm Sustainability in Greece
Covers topics of immediate or special interest to a faculty member and students.

FIS 494 Special Topics
Engaging Comm. in Energy&Edu
Covers topics of immediate or special interest to a faculty member and students.

FIS 494 Special Topics
Sustainable Energy-Puerto Rico
Covers topics of immediate or special interest to a faculty member and students.
FIS 494 Special Topics
Dominican Republic-Peace Corps
Covers topics of immediate or special interest to a faculty member and students.

FIS 494 Special Topics
Prep-Cambodia&Vietnam SA
Covers topics of immediate or special interest to a faculty member and students.

FIS 494 Special Topics
Cambodia&Vietnam Study Abroad
Covers topics of immediate or special interest to a faculty member and students.

FIS 494 Special Topics
Innovation in Green Growth
Covers topics of immediate or special interest to a faculty member and students.

GTD 501 Global Tech and Development
Major theories of economic, political, and social development, with particular emphasis on the impact of current technologies and globalization.

GTD 503 Tech & the Intl Political Syst
Historical development of international political system, with emphasis on role of technology.

GTD 504 Tech/Dev in Zones of Conflict
Examines the special context of technology and development in zones of conflict that face wars among other nations, civil strife and dramatic political change.

GTD 505 Research Design in Tech & Dev
Emphasizes techniques of primary data collection, effective uses of secondary sources, for qualitative and quantitative applications.
GTD 506 Quantitative Analys/Tech/Dev

Uses correlation and regression-based multivariate statistical approaches in development studies.

GTD 507 Tech/Dev in the Middle East

Examines historical and current patterns of political and socioeconomic development in the Middle East, including the role of technological development and current events.

GTD 508 Tech/Dev in Latin America

Examines historical and current patterns of political and socioeconomic development in Latin America, including the role of technological development and current events.

GTD 509 Tech/Dev in North Africa

Examines historical and current patterns of political and socioeconomic development in North Africa, including the role of technological development and current events.

GTD 510 Tech/Dev in Sub-Saharan Africa

Examines historical and current patterns of political and socioeconomic development in Sub-Saharan Africa, including the role of technological development and current events.
GTD 511 Development Policy & Practices

Since the Bretton Woods Agreements in 1944, enormous energy has been devoted to generating the right tools for global development policy. Yet, little attention is given to the relationship between these tools, the practice of development and actual outcomes. At best, it is understood as a “gap” between the theory of development policy and practices. There is no reflection on what the good development policy looks like or what collective learning we have thus far. Informs students on the complexity of policy making and its relationship to development practices through time. Creates an intellectual space to discuss the practices of global development; uses case studies to enhance students’ creativity and skill needed in managing and negotiating critical development challenges. Approaches development policy (models, strategies and project design) primarily as a tool to legitimize power relation rather than to orient practice for desired development outcomes.

GTD 512 Intl Gov & Dev - Nuclear Tech

Examines the historical context, present development and possible futures of nuclear technologies around the world. Topics include the origins of the modern nuclear era (1945-present), the nuclear fuel cycle including waste management, nuclear energy for security and modernization, nuclear catastrophes, and new possibilities in nuclear technologies, as well as international policies, national imperatives and local concerns with nuclear development. Students gain a better understanding of the complex political, environmental, cultural and economic values that inform and shape the development and implementation of, as well as resistance to, nuclear technologies.

GTD 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
GTD 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

GTD 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

GTD 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

GTD 598 Special Topics
Prep-Sus. Dev. Across Morocco
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GTD 598 Special Topics
Morocco Study Abroad
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Prep-Sus Dev Across Ecuador
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Tech & Devl in Global Nucl En
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Ecuador: Study Abroad
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Ecuador:WaysOfKnowing
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Prep-Comm. Sust. in Greece
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GTD 598 Special Topics
Socio-ecol. Systems & Adaptation
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Tech & Devl. in Global Educati
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Comm Sustainability in Greece
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Engaging Comm. in Energy & Edu
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Tech & Dev in South East Asia
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Sustainable Energy - Puerto Rico
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
GTD 598 Special Topics
Smart Cities and Development
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
HumanitarianRelief&Development
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Gender, Development&Technology
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Dominican Republic-Peace Corps
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
GloblResrchChallenge:LatinAmer
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Prep-Cambodia&Vietnam SA
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GTD 598 Special Topics
Cambodia & Vietnam Study Abroad
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Grassroots Energy Innovation
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GTD 598 Special Topics
Innovation in Green Growth
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

ALA 100 Intro to Environmental Design

Surveys environmental design: includes historic examples and
the theoretical, social, technical, and environmental forces that
shape them.

APH 414 Great Cities

Historical survey of great cities from antiquity to the present.

ARA 309 Photography Now

Explores contemporary practice through lectures, readings,
exhibition visits, screenings and discussions. Explores
work created within the past thirty years up to the present.
Students act as a collective “ear to the ground” for the
medium, engaging in first-hand experiences and research
and being responsible to share those experiences with the
class as active agents of discovery. Requires reading current
periodicals, attending and discussing photographic lectures
and exhibitions both in-class and beyond within the local
community.
ARA 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ARA 489 Writing Art & Design Criticism

Arts writing workshop designed to help develop critical voice in written form. During the course of the semester, students learn about art and design criticism by reading work in a variety of contexts, looking at examples of art and design in person and discussing them, and writing and revising their own pieces of criticism.

ARS 100 Introduction to Art

Provides an introduction to the understanding and enjoyment of art through the study of painting, sculpture, design, photography, and the decorative arts. Students gain an awareness of meaning, functions, and significance of art, while learning an art-related vocabulary and a set of analytical tools for discussing and understanding art from around the world.

ARS 101 Art-Prehistory thru Middle Age

History of Western art from the Paleolithic period through the Middle Ages.

ARS 102 Art from Renaissance/Present

History of Western art from the Renaissance to the present.

ARS 102 Art Renaissance to Modernism

History of Western art from the Renaissance to 20th-century modernism.

ARS 201 Art of Asia

History of the art of the Asian cultures, with emphasis on China, Japan, and India. Meets non-Western art history requirement.
ARS 202 Art of Africa/Oceania/Americas

History of art of Africa, Oceania, and the New World. Meets non-Western art history requirement.

ARS 250 History of Photography

History of photography from the 19th century to the present.

ARS 300 Introduction to Art

Parallels ARS 100 course content but requires a higher level of accomplishment and comprehension. Introduces visual culture, the purpose of art, and the relationship between art and visual culture. Students learn how visual culture pervades our everyday lives and how understanding visual literacy can help us participate more fully in the world around us.

ARS 310 The Renaissance in Tuscany

Course taught in Florence, Italy. History of arts in Tuscany with focus on city of Florence from 14th through 16th centuries. Completion of ARS 101 and 102 suggested.

ARS 330 The Portrait

Examines the history and production of portraits in contexts of social hierarchies, historical events, gender, politics, class, morality and aesthetics with a focus on the 15th to the 21st centuries in painting, sculpture and photography.

ARS 340 Art in America

American art from colonial times through the Second World War. Not available to students who have completed ARS 542.
ARS 345 Art and Television

Critical introduction to the interrelation of technology and visual art using the tools of art history and media/cultural studies. Students read theorists of the relation between visual art and the mass media, and use them to analyze early presentations of visual art and art history on television of the 1960s and 1970s. Examines the contemporaneous and parallel development of video art—an artistic medium appropriated from television technology—through the study of key video artworks.

ARS 369 Mexican Art

Critically examines how Mexico and its people have represented themselves and been represented by others from ancient times to the 20th century.

ARS 394 Special Topics
The Villa & the Garden
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
New Tend in Span Cont Art
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Urbn Intrvntns, Griffti, PubScp
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
19th Century Art History
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Art of Italian Renaissance
Covers topics of immediate or special interest to a faculty member and students.
ARS 394 Special Topics
Mexican Art
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Italian Renaissance Art
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Medieval Art
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Islamic Art
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Egyptian Art and Culture
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
The Art of the Comic
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Art & Myth of the Classical World
Covers topics of immediate or special interest to a faculty member and students.

ARS 394 Special Topics
Anime
Covers topics of immediate or special interest to a faculty member and students.
ARS 394 Special Topics
Introduction to Museums
Covers topics of immediate or special interest to a faculty member and students.

ARS 402 Art of Ancient Egypt
Aesthetic, philosophical, and cultural basis of Egyptian art from pre-Dynastic period through New Kingdom. Emphasis on sculpture and architectural monuments.

ARS 435 The Pre-Raphaelites
Visual and literary works by Victorian Pre-Raphaelites as works in themselves and through relations between images and texts.

ARS 438 Art of the 20th Century I
Developments and directions in art between 1900 and World War II.

ARS 440 Identity and World Film
Examines how films around the world represent gender, race, ethnicity, and sexual orientation through the lens of genres and their variations and how genres reinforce or critique stereotypes.

ARS 472 Art of China
Study of major forms in Chinese art: ritual bronze, sculpture, ceramic, calligraphy, painting, and architecture. Meets non-Western art history requirement.

ARS 480 Research Methods
Methodology and resource material for art historical research. Techniques of scholarly and critical writing and evaluation of bibliographic sources.
ARS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ARS 485 Women in the Visual Arts

Historical study of art by women in various media; related social, political, educational issues; representation of women in art.

ARS 494 Special Topics
Ancient Art: Florence
Covers topics of immediate or special interest to a faculty member and students.

ARS 494 Special Topics
Global Textiles and Fashion
Covers topics of immediate or special interest to a faculty member and students.

ARS 494 Special Topics
Philosophy of Curatorial Pract
Covers topics of immediate or special interest to a faculty member and students.

ARS 494 Special Topics
Oceanic Art
Covers topics of immediate or special interest to a faculty member and students.

ARS 494 Special Topics
Curation and Globalization
Covers topics of immediate or special interest to a faculty member and students.

ARS 494 Special Topics
History of Animation
Covers topics of immediate or special interest to a faculty member and students.
ARS 498 Pro-Seminar
Theories of Modern Sculpture
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ARS 498 Pro-Seminar
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ARS 498 Pro-Seminar
The Renaissance Book
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ARS 498 Pro-Seminar
Theories of Modern Sculpture
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ARS 498 Pro-Seminar
Greek Sculpture
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ARS 498 Pro-Seminar
Art & Technology
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ARS 498 Pro-Seminar
Theories of Modern Sculpture
Small-group study and research for advanced students within their majors.
ARS 498 Pro-Seminar
Contemporary Art of Asia
Small-group study and research for advanced students within their majors.

ARS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

ARS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

ARS 540 Identity and World Film

Examines how films around the world represent gender, race, ethnicity, and sexual orientation through the lens of genres and their variations and how genres reinforce or critiques stereotypes.

ARS 598 Special Topics
Ancient Art: Florence
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
ART 110 Drawing as Seeing and Thinking

Immerses students from a broad range of non-art disciplines in the practice of drawing. Considers and reflects on drawing in its most expanded form: as a primary tool of communication and creative problem solving, as movement, as sensory experience and as its own unique method of cognition. Divides class meetings among lectures, exercises, field excursions and opportunities for critical dialogue. Students leave with an appreciation of the unique power of mark-making and an improved understanding of its application in their lives.

ART 116 Intro to Digital Media

Concentrates on the fundamentals of digital media, including imagery, sound, video, animation, and the Web. Assignments are given to engage students in the technical, conceptual, and aesthetic aspects of digital media. Students employ a diverse range of techniques and software as they become familiar with contemporary artistic processes involving the use of the computer and/or other technologies. Consists of hands-on experimentation and production supplemented by slide lectures, videos, visiting artists, and academic research.

ART 206 Digital Photography I

Through readings, lectures, discussion and studio assignments, explores the ways in which digital technology affects how we read and use still photographic imagery. Asks how digital technology has changed the functions and meanings of the photograph. Explores the new options but also ponders the new responsibilities and complexities that accompany electronic imagery. Works toward an integrated understanding of what the translation to digital means for still photography. Beginning with an introduction to using digital cameras, sorting, storing and developing a work flow, exposes students to a variety of digital applications to create, disseminate and reflect on images through a variety of formats including social media, personal Web pages and one-to-one electronic conversation. Addresses other non-Web-based presentations such as print-to-order books, CD/DVDs, projections and large format prints.
ART 206 Digital Photography I

Through readings, lectures, demonstrations and regular shooting assignments and critique, introduces the basic concepts of photography as a form of creative expression. With an emphasis on the student's own creative practice, covers technical, aesthetic and conceptual aspects of photography and explores how meaning is created in a photograph. Introduces basic digital editing, camera controls, selection and sequencing. Assignments cover traditional genres such as landscape, portrait and still life. Places a strong emphasis on interaction with classmates’ work and receptivity to critique. Fully manual DSLR is suggested but not required for this course.

ART 207 Digital Photography II

Considers social, historical and political context of images, image-to-image relationship and media theory as applied to creating and understanding images.

ART 207 Digital Photography II

Through readings, lectures, demonstrations and regular shooting assignments and critique, introduces the basic concepts of digital photography as a form of creative expression. With an emphasis on the student's own creative practice, explores the ways in which the recently increased speed of creation and dissemination have led to the ubiquity of photography and how these aspects have radically altered how photographs function in today’s world. Covers technical, aesthetic and conceptual aspects of digital photography and explores how meaning is created in a digital photograph. Students learn digital editing, camera controls, file formats, workflow and explores media theory in relation to digital imaging technology. Assignments cover topics such as appropriation, social media, surveillance, vernacular and ritual photography. Places a strong emphasis on interaction with classmates’ work and receptivity to critique.
ART 217 Intro to Computer Animation

Prepares students for the exciting world of digital animation. Looks back at animation through history and how it has developed into what we understand today. Looks at history, theory, principles, practices and animation techniques. Expands the student’s current knowledge of 3D digital animation and how it has changed and affected society through time. Students use learned techniques to create art in animation.

ART 294 Special Topics
Lndscp & Architectrl Photgrph
Covers topics of immediate or special interest to a faculty member and students.

ART 294 Special Topics
The Still Image in Digital Cul
Covers topics of immediate or special interest to a faculty member and students.

ART 294 Special Topics
Intro. to Animation
Covers topics of immediate or special interest to a faculty member and students.

ART 300 Narrative/Non-Narrative

Explores how structure in images can be created both within the image (by setting up a picture) and by sequencing images that may or may not have had any relation when they were created. By exploring two prevalent ways in which images function in the art world--the directoral mode and sequencing mode--students gain valuable tools in terms of understanding how to construct meaning with their images. Emphasizes creating cohesive and complete sequences both narrative and non-narrative.
ART 302 Digital Photo and Video

Through screenings, readings, discussion and practical assignments, explores the differences between the still and the moving image coming from the perspective of a still photographer. How does the addition of time, sound and movement affect the way we experience images? How have the histories of photography and cinema overlapped and how are they different? How does the fact that video and film are no longer prohibitively expensive for most people affect the approach that people take to creating videos? How can photographers make engaging video using their photo skills? Looking at practitioners and learning basic video editing tools—as well as various methods for output—students create video and still images with an understanding of the intersections, variations and potential of the similar yet markedly different languages of film, video and still photography.

ART 317 Advanced Digital Photography

Thoroughly examines the distribution, interaction of physical and virtual aspects of the photograph. Emphasizes creating work and interacting with an audience—examining the relationship between the physical and the virtual in terms of photographic imagery.

ART 317 Advanced Digital Photography

Builds on the skills and conceptual underpinnings of previous coursework and is the final course in the required photo foundation for the Digital Photography BFA. Students build on their understanding of photography in relation to the technical, aesthetic and conceptual aspects of photography. Requires students to create a short video and create physical objects, including printed photographs and a book. Places a strong emphasis on idea development, interaction with classmates’ work and receptivity to critique.
ART 394 Special Topics

Covers topics of immediate or special interest to a faculty member and students.

ART 394 Special Topics
Death and Photography
Covers topics of immediate or special interest to a faculty member and students.

ART 400 The Photobook

Photographers have long seen the photobook as an excellent way to showcase their work. From the mid 1960s art photographers have used self-publishing through methods as simple as a photocopier to disseminate their work. Recent advances in the accessibility of high-quality reproduction capacities have resulted in an explosion of flexible and creative ways for photographers to execute their ideas and contribute to a wide range of conversations. Practical and theoretical course on the photobook. Students learn about the history of the photobook and the multitude of contemporary applications from the major photography publishers such as Aperture, through to the small press and self-publishing and the exciting world of art book fairs. Students also create a handmade photobook and create and order a print-to-order book of their own work.

ART 402 Traditional Genres in Photo

Through practical assignments, lectures, readings, discussion and critique, investigates traditional photographic genres such as portrait and landscape. Students create works in the genre in question and contextualize these images in historical and contemporary art. Addresses such questions as what defines a genre and the social, political and cultural impacts these genres have had on photography and art. Also addresses how genres have been transformed with the advent of digital technology explores how this affects images in a broader cultural and social history. Emphasizes the students' work and a final portfolio of portraits.
ART 406 New Genres in Digital Photo

Explores the ways in which contemporary technology and the key changes—ubiquity, speed and reproducibility—have spawned new genres in photo-based art. Explores these emerging and changeable genres and examines the potential they present for creative expression and in-depth conversation about new ideas. Defines these new genres: selfie sticks, Instagram, screenshots from Google Streetview or remote cameras that we control from our home computer. Students are given weekly assignments and at the end of the course create a project within one of the new genres.

ART 407 Digital Photography Capstone

Culminating class of the online Digital Photography degree. It is organized around a single, major self-directed project. Students will submit work once a week for critiques and will participate in their classmates’ critiques as well. Classmates and instructor will guide each student towards the best execution of their vision. Students will complete course with a portfolio of images that may be realized in a variety of forms including but not limited to: an online gallery, a website, or a printed portfolio or a photobook. Students will also write an artist statement to accompany the work and conduct research where there is an audience for their work.

ART 412 Advanced Techniques

Highly technical course consists mainly of technical applications, readings, quizzes and discussion. Focuses on learning advanced image-editing software such as Photoshop, and photo management and manipulation software. Covers montage and color management systems including profiling for color printing and monitors. Students also learn about using digital backs on medium format and view cameras.

ART 494 Special Topics
Drawing in Florence
Covers topics of immediate or special interest to a faculty member and students.
ART 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

DCE 100 Introduction to Dance

Overview of dance as a cultural and performative practice, exploring history and theory, philosophy, and movement practices, with reference to key pioneers in the field from around the world.

DCE 201 Dance, Culture & Global Contexts

Introduces the study of dance as culture in diverse global contexts.

DSC 101 Design Awareness

Surveys cultural, global, and historical context for the design professions.

FMP 201 Film: The Creative Process I

History, elements, and techniques of theatrical film: cinematography, directing, acting, scriptwriting, producing, and criticism. Fee (hybrid/Internet).

FMP 201 Film: The Creative Process I

History, elements, and techniques of theatrical film: cinematography, directing, acting, scriptwriting, producing, and criticism.
FMP 222 Education in Film

Critically examines how teachers, students, administrators and educational issues are dramatized and represented in popular media. Explores professional teacher preparation, socio-cultural contexts of education systems and learning, and the use of cinema as social critique.

FMP 255 Media Authorship

Surveys the manipulation, editing, compression, encoding and search engine optimization of digital sound and video media.

FMP 294 Special Topics
Media Authorship
Covers topics of immediate or special interest to a faculty member and students.

FMP 294 Special Topics

Covers topics of immediate or special interest to a faculty member and students.

FMP 294 Special Topics
From Lucy to Lost: Series TV
Covers topics of immediate or special interest to a faculty member and students.

FMP 405 Film & TV: Pioneers, Practices
Hollywood Rebels
Examines major historical figures, generic conventions and institutional practices in the global film, television and media industries.

FMP 405 Film & TV: Pioneers, Practices
Film Genres, Part 2
Examines major historical figures, generic conventions and institutional practices in the global film, television and media industries.
FMP 405 Film & TV: Pioneers, Practices
The Oscars
Examines major historical figures, generic conventions and institutional practices in the global film, television and media industries.

FMP 405 Film & TV: Pioneers, Practices
Great Comedy Films
Examines major historical figures, generic conventions and institutional practices in the global film, television and media industries.

FMP 405 Film & TV: Pioneers, Practices
Hitchcock
Examines major historical figures, generic conventions and institutional practices in the global film, television and media industries.

FMP 405 Film & TV: Pioneers, Practices
Science Fiction on Film
Examines major historical figures, generic conventions and institutional practices in the global film, television and media industries.

HHE 566 The Healing Exp Research Lab
Connects spatial relationships and healthcare user needs through design, clinical delivery, and architecture. Applying research outcomes to the built environment.

MHL 201 Media Literacy for Musicians
Instruction in basic Macintosh computer literacy, including generic applications and music-specific programs with hands-on experience.

MUS 100 Fundamentals of Music Notation
Provides nonmusic majors with sufficient symbol literacy to begin work in the field of musical learning. Credit not applicable toward any music degree.
MUS 145 Nonmajors Class Piano: Begin

For students with little or no previous music experience. Students learn beginning piano skills.

MUS 231 Laughing to Music

Modern-day comedies like Spamalot, Avenue Q, and Glee are part of a comic tradition extending back to the Renaissance. Looks at funny in music from commedia dell'arte to the present. Studies works including the comedies of Mozart, Gilbert and Sullivan, the Marx Brothers, Monty Python, Mel Brooks and many others.

MUS 254 Blues to Heavy Metal

Covers important musicians and trends from the 1930s through the 1970s. Topics include blues, rhythm and blues, rockabilly, doo wop, teen idols, girl groups, dance craze, surf, novelty, soul, Motown, British invasion, art rock, psychedelic rock, hard rock, heavy metal, and early '70s styles. Emphsizes musical instruments and stylistic traits with historical information provided as background. Features listening examples drawn from selected artists and bands including popular songs and rarities, and demonstrations using various musical instruments and techniques.

MUS 340 Music Concert Hall, Stage, Scrn

Classical Music in America
In-depth study of examples from Western art music. Emphasizes aural analysis and synthesis of historical data with musical phenomena. Critiques the canon and its limits in specific instances.

MUS 340 Music Concert Hall, Stage, Scrn

In-depth study of examples from Western art music. Emphasizes aural analysis and synthesis of historical data with musical phenomena. Critiques the canon and its limits in specific instances.
MUS 347 Jazz in America

In-depth study, analysis and synthesis of examples from the jazz tradition. Includes the application of advanced aural analytic techniques to exemplary jazz musical works.

MUS 354 Popular Music
Rock: The Early Years
Emphasizes historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music.

MUS 354 Popular Music
Beatles
Emphasizes historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music.

MUS 354 Popular Music
The Beatles After the Beatles
Emphasizes historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music.

MUS 354 Popular Music
Rock Since 1970
Emphasizes historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music.

MUS 354 Popular Music
Hip-Hop
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
Rock: The Early Years
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.
MUS 354 Popular Music
Rock Since 1970
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
Stephen Sondheim
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
Classic Rock: 1950-1975
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
The Beatles After the Beatles
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
Rock Since 1975
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
Women Who Rock
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 354 Popular Music
Beatles
In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.
MUS 354 Popular Music

Elvis

In-depth study of a specific topic in the history of popular music. Emphasizes aural analysis and synthesis of historical data with musical phenomena to create new perspectives.

MUS 355 American Music

In-depth study of current research topics in American music. Engages students in current scholarly debates. Charts the limits of current scholarly methodologies and historical research programs.

MUS 362 Rap Music and Hip Hop Culture

Examines the history of rap music and hip hop culture from their origins to about 1995, including most, but not all, of the major artists from this period. Explores connections between rap music and other elements of hip hop culture, and challenges students to think critically about rap music and its place in society. Uses listening exercises, demonstrations, and conversations with artists to examine how rappers create meaning in their musical works. Drawing on secondary articles by rap critics and scholars, considers in detail such controversial subjects as censorship, sexism, obscenity, and race politics in America as they relate to rap music.

MUS 371 World Music

Provides an introduction to world music, including traditional and popular styles. Examines specific music genres from Africa, Asia, Europe, and the Americas and explores their historical development, cultural contexts, communicative functions, forms, styles, instruments and musical philosophies. Throughout the semester, considers the interrelationships among musical genres and other art forms (dance, theater, visual arts, and literature) and analyzes how these musics have intersected with the issues of race, class, gender, religion, ritual, politics, social movements and cultural identity. Students learn to hear and discuss significant stylistic elements of selected genres through listening assignments.
THE 100 Introduction to Theatre

Surveys theatre production from the Greeks to contemporary theatre.

THE 322 Theatre History and Culture

Critically examines major developments in theatre history, historiography, and dramatic literature.

THE 404 World Cinema

Films and filmmakers from Europe, Asia, Australia, the Far East, South America, and the Caribbean. Emphasizes cultural content and filmmaking philosophies.

THE 405 Film: Great Performers/Directors
Great Movie Musicals
Examines processes and influences of one or more great film performers and/or directors. May be repeated for credit when topics vary. Fee (hybrid/Internet).

THE 405 Film: Great Performers/Directors
Hitchcock
Examines processes and influences of one or more great film performers and/or directors. May be repeated for credit when topics vary. Fee (hybrid/Internet).

THE 405 Film: Great Performers/Directors
Science Fiction
Examines processes and influences of one or more great film performers and/or directors. May be repeated for credit when topics vary. Fee (hybrid/Internet).

THE 405 Film: Great Performers/Directors
Great Comedy Films
Examines processes and influences of one or more great film performers and/or directors. May be repeated for credit when topics vary. Fee (hybrid/Internet).
THE 405 Film: Great Performers/Directors
Film Genres
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
Great Movie Musicals
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
Science Fiction on Film
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
War on Film
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
Film Genres, Part 1
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
Film Genres, Part 2
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
The Oscars
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
Science Fiction
Examines processes and influences of one or more great film performers and/or directors.
THE 405 Film: Great Performers/Directors
Hitchcock
Examines processes and influences of one or more great film performers and/or directors.

THE 405 Film: Great Performers/Directors
Great Comedy Films
Examines processes and influences of one or more great film performers and/or directors.

THE 421 Shakespeare: Stage and Film
Examines Shakespeare's plays as written texts, stage performances, and film productions. Focuses on play reading, performance analysis, and film critique. Online course.

THE 430 History of Fashion
Fashion is rarely set but rather evolves with eras of upheaval between one generation and the next. Clothes express the personality and rank of the individual creating an instantaneous and lasting impression. Introduces over a thousand years of Western fashion history drawing parallels between the fashion and the period in which it existed.

THE 430 History of Fashion
Fashion is rarely set but rather evolves with eras of upheaval between one generation and the next. Clothes express the personality and rank of the individual creating an instantaneous and lasting impression. Introduces over 400 years of Western fashion history drawing parallels between the fashion and the period in which it existed.

THE 430 History of Fashion I
Fashion is rarely set but rather evolves with eras of upheaval between one generation and the next. Clothes express the personality and rank of the individual creating an instantaneous and lasting impression. Introduces over 400 years of Western fashion history drawing parallels between the fashion and the period in which it existed.
THE 431 History of Fashion II

A century of fashion history, drawing parallels between the fashion and the period in which it existed.

THE 494 Special Topics
History of Fashion II
Covers topics of immediate or special interest to a faculty member and students.

THE 494 Special Topics
Italy & English Drama
Covers topics of immediate or special interest to a faculty member and students.

THP 351 Arts Management

Management, organizational behavior, and human behavior in the arts; marketing, financing, and budgeting for the arts.

ABS 270 Sustainable Biological Systems

Ecological foundations of sustainable biological systems, anthropogenic impacts on ecosystem structure and function, and ecological risk assessment.

ABS 360 Southwest Home Gardening

Multimedia course for nonmajors surveying contemporary topics in Southwest home horticulture, including landscaping, flower and vegetable gardening, citriculture, interiorscaping, and others.

ASB 353 Death&Dying Cross-Culturl Prsp

Scientific and humanistic approaches to the study of death and dying from the perspective of anthropology and allied disciplines. Uses a global, comparative approach across space and time from the earliest human burials to contemporary funeral events.
ASC 315 Numeracy in Technology

Contextual uses of mathematics in applied sciences. Emphasizes using mathematical methodologies to solve technology-related problems.

ASC 325 Physical Sciences in Tech

Physical systems and their interrelationships on technology systems. Real-world applications of physical systems.

BIO 160 Intro. to Anatomy & Physiology

Terminology and essential concepts in human anatomy and physiology, as well as the structure and function of the human body. Designed for students in the health-related professions. Acquaints the student with human anatomy, structure and function, and basic disease concepts. Organizes and presents course concepts by organ systems, and the laboratory component of the course emphasizes human structure and function. The course has 3 contact hours for lecture and 2 contact hours for lab per week.

BIS 300 Theories & Applications Org Stds

Critical analysis and application of organizational theory and conceptual perspectives to identify and solve problems, emphasizing personal and organizational application.

BIS 301 Found of Interdisc Studies

Introduces concepts and methods of interdisciplinary study by critically examining anticipated 21st-century workplace and civic trends.

BIS 302 Interdisciplinary Inquiry

Explores interdisciplinarity and integration as applied to various approaches of human inquiry.
BIS 321 Interdisciplinary Issues
1950s American Culture
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

BIS 321 Interdisciplinary Issues
Prohibition and the Jazz Age
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

BIS 321 Interdisciplinary Issues
Baseball: Business and Culture
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

BIS 321 Interdisciplinary Issues
Millennials and Politics
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

BIS 340 Organizational Skills
Leading Service Excellence
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

BIS 340 Organizational Skills
The Language of Organizations
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

BIS 340 Organizational Skills
Dialogue in the Workplace
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

BIS 340 Organizational Skills
The Aikido Way
Develops and enhances skills needed in effective organizations such as communication and the use of technology.
BIS 340 Organizational Skills
Socrates, the Super Worker
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

BIS 340 Organizational Skills
Digital Citizenship
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

BIS 343 Social Processes in Orgs
Examines the interdisciplinary nature of social processes and human interactions across a number of different organizational contexts.

BIS 345 Organizational Ethics
Explores and considers normative and applied ethics within a variety of organizations.

BIS 350 Diversity and Organizations
Critical interdisciplinary analysis of individual, cultural, and organizational diversity. Prerequisites: sophomore status; completion of first-year composition.

BIS 350 Diversity and Organizations
Critical interdisciplinary analysis of individual, cultural, and organizational diversity.

BIS 353 Interdisciplinary Leadership
Offers interdisciplinary perspectives on the theory and practice of leadership in a range of organizational environments
BIS 357 Assessment in Organizations

Considers the role and function of assessment in effective organizations. Provides the knowledge and tools required to identify, collect and analyze information to assess organizations.

BIS 357 Assessment in Organizations

Considers the role and function of assessment in effective organizations. Provides the knowledge and tools required to identify, collect and analyze information to assess organizations.

BIS 360 Organizational Contexts
The Integrated Worker
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
International Organization
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Italian Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Irish Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
International Healthcare
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.
BIS 360 Organizational Contexts
Sports Leadership
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Czech Republic Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
South American Org Contexts
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Cuba: Past, Present & Future
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Analyzing War-ganizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Indigenous Culture in Belize
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Leaders in Film
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.
BIS 360 Organizational Contexts
Reinventing Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
U.S. Peace Corps
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Chinese Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
The Integrated Worker
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Sex Sexualities Time and Place
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 360 Organizational Contexts
Imagining NGOs
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.
BIS 360 Organizational Contexts
International Organization
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

BIS 370 Dimensions of Liberal Studies
Critical analysis and application of concepts of liberal studies and its modes of inquiry. Prerequisite: BLS student; sophomore status; completion of first-year composition.

BIS 394 Special Topics
Prohibition: Great Experiment
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics
Integrated Worker
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics
Interdisciplinary Leadership
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics
International Organization
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics
Death & Dying Intrdis Approach
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics
Millennials and Politics
Covers topics of immediate or special interest to a faculty member and students.
BIS 394 Special Topics  
Baseball: Business and Culture  
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics  
1950s American Culture  
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics  
Prohibition and the Jazz Age  
Covers topics of immediate or special interest to a faculty member and students.

BIS 394 Special Topics  
Taste of Peace Corps in D.R.  
Covers topics of immediate or special interest to a faculty member and students.

BIS 401 Applied Interdisc Studies  
Managed Study  
Applies interdisciplinary problem-solving skills in internships, service-learning, or research; may involve individual or group projects combining both concentrations.

BIS 401 Applied Interdisc Studies  
Directed Interdisc Studies  
Applies interdisciplinary problem-solving skills in internships, service-learning, or research; may involve individual or group projects combining both concentrations.
BIS 402 Senior Seminar
Technology and Global Conflict
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Intercultural London
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Seeking Self
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Musical: Broadway to Hollywood
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Identity & Symbolism in the UK
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
A Self-Constructed Life
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Technology and Political Media
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.
BIS 402 Senior Seminar
Understanding Place
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Dimensions of the World Wars
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
1950s Culture, Music & Media
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Work in the 21st Century
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Conservation and Development
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Exploring the Smart Grid
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.
BIS 402 Senior Seminar
Integrative Thinking
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Integrating Identities
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Integral South America
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Identity & Conflict in Europe
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Analysis and Decision Making
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
Death & Dying Intrdis Approach
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar
The Body Over Time
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.
BIS 402 Senior Seminar  
Cult and Chemical Hist of Beer  
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar  
Journeys & Adventurous Mind  
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar  
Political Econ of Work & Orgs  
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar  
The Global Workplace  
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 402 Senior Seminar  
Work-Life Integration  
Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests.

BIS 470 Liberal Studies Seminar  
Seeking Self and Identity  
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 470 Liberal Studies Seminar

Advanced analysis and application of theories and methods of human and social inquiry.
BIS 470 Liberal Studies Seminar
Spotlight on Chinese Orgs
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 470 Liberal Studies Seminar
Touring Renaissance Florence
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 470 Liberal Studies Seminar
Understanding Place
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 470 Liberal Studies Seminar
Syncretism in South America
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 470 Liberal Studies Seminar
The Three Cultures
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 470 Liberal Studies Seminar
Meaning Through Design
Advanced analysis and application of theories and methods of human and social inquiry.

BIS 484 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.
BIS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

CED 250 Career Development

Covers models of the individual, the world of work, and decision making with emphasis on individual application.

COM 100 Intro to Human Communication

Topics-oriented introduction to basic theories, dimensions, and concepts of human communicative interaction and behavior.

COM 250 Intro Organizational Comm

Introduces the study of communication in organizations, including identification of variables, roles, and patterns influencing communication in organizations.

COM 263 Elements Intercultural Comm

Basic concepts, principles, and skills for improving communication among persons from different minority, racial, ethnic, and cultural backgrounds.

COM 312 Comm, Conflict & Negotiation

Theories and strategies of communication relevant to the management of conflicts and the conduct of negotiations.
COM 316 Gender and Communication

Introduces gender-related communication. Examines verbal, nonverbal, and paralinguistic differences and similarities within social, psychological, and historic perspectives.

COM 364 Cultural Communicology

Basic introduction to cultural communicology, focusing on its relationship to general systems theory and semiotics (the study of signs and sign systems). Focuses on lived-experience as a semiotic interrelation between culture and communication. General systems theory and semiotic theory are used to study culture as a living condition of communicative relations among humans and within their environment. Emphasizes practical applications to real-world problems. Examines communication as a confluence of intrapersonal, interpersonal, group and transcultural networks of codes and messages. Uses comparative cultural contexts as a basis for applied analysis.

COM 394 Special Topics
Listening
Covers topics of immediate or special interest to a faculty member and students.

COM 394 Special Topics
Communication Electronic Age
Covers topics of immediate or special interest to a faculty member and students.

COM 430 Leadership Group Communication

Theory and process of leadership in group communication, emphasizing philosophical foundations, contemporary research, and applications to group situations.

CPY 691 Seminar
Marriage and Family Counseling
A small class emphasizing discussion, presentations by students, and written research papers.
ENG 101 First-Year Composition

Discovers, organizes, and develops ideas in relation to the writer’s purpose, subject, and audience. Emphasizes modes of written discourse and effective use of rhetorical principles. Foreign students, see ENG 107.

ENG 101 First-Year Composition

Discovers, organizes and develops ideas in relation to the writer’s purpose, subject and audience. Emphasizes modes of written discourse and effective use of rhetorical principles.

ENG 102 First-Year Composition

Critical reading and writing; emphasizes strategies of academic discourse. Research paper required.

ENG 105 Adv First-Year Composition

Concentrated composition course for students with superior writing skills; intensive reading; research papers; logical and rhetorical effectiveness.

ENG 204 Intro to Contemporary Lit

Poetry, fiction, drama, and possibly other genres.

ENG 204 Topics in Contemporary Lit

Literature and Environment
Topics in contemporary literature, which may include narrative and medicine.

ENG 204 Topics in Contemporary Lit

Topics in contemporary literature, which may include narrative and medicine.

ENG 215 Strategies of Academic Writing

Advanced course in techniques of analyzing and writing academic expository prose. Writing is research based.
ENG 216 Persuasive Writing Public Issue

Advanced course in techniques of analyzing and writing persuasive arguments addressing topics of current public interest. Papers are research based.

ENG 217 Writing Reflective Essays

Critical examination of the influences discourse has on formation of identity; narrative analyses of self and culture.

ENG 221 Survey of English Literature

Medieval, Renaissance, and 18th-century literature. Emphasizes major writers and their works in their literary and historical contexts.

ENG 301 Writing for the Professions

Advanced practice in writing and editing expository prose. Primarily for preprofessional majors.

ENG 303 Classic Backgrounds: English Literature

Readings of Greek and Latin literature in translation as they relate to literature in English.

ENG 352 Short Story

Development of the short story as a literary form; analysis of its technique from the work of representative authors.

ENG 375 Titans of Business

CBS
Explores leading CEOs and corporations from a humanities perspective.

ENG 375 Titans of Business

General Electric
Explores leading CEOs and corporations from a humanities perspective.
ENG 378 Environmental Creative Nonfict

Lectures, discussion, and criticism concerning the literary history of nature writing and techniques of writing environmental creative nonfiction for publication.

ENG 379 Travel Writing

Studies the genesis of travel writing, what theories inform travel writing, and the various genres of travel writing today.

ENG 394 Special Topics
Art of Writing Pop-M.Gladwell
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Art of Writing Pop: BLINK
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Gaga:PoeticIdeologyofOtherness
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Superstition Review Training
Covers topics of immediate or special interest to a faculty member and students.

ENG 466 Studies in International Film
French New Wave
Studies non-American narrative film.

ENG 466 Studies in International Film
International Film Survey
Studies non-American narrative film.

ENG 466 Studies in International Film
Studies non-American narrative film.
ENG 466 Studies in International Film
Contemporary International Films
Studies non-American narrative film.

ENG 484 Internship
Superstition Review Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 484 Internship
Tutoring K-12 in Foster Care
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 484 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 499 Individualized Instruction
Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

ENG 499 Individualized Instruction
Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

ENG 584 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.
GTD 501 Global Tech and Development

Major theories of economic, political, and social development, with particular emphasis on the impact of current technologies and globalization.

GTD 503 Tech & the Intl Political Syst

Historical development of international political system, with emphasis on role of technology.

GTD 505 Research Design in Tech & Dev

Emphasizes techniques of primary data collection, effective uses of secondary sources, for qualitative and quantitative applications.

GTD 506 Quantitative Analys/Tech/Dev

Uses correlation and regression-based multivariate statistical approaches in development studies.

GTD 507 Tech/Dev in the Middle East

Examines historical and current patterns of political and socioeconomic development in the Middle East, including the role of technological development and current events.

GTD 508 Tech/Dev in Latin America

Examines historical and current patterns of political and socioeconomic development in Latin America, including the role of technological development and current events.

GTD 509 Tech/Dev in North Africa

Examines historical and current patterns of political and socioeconomic development in North Africa, including the role of technological development and current events.
GTD 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GTD 590 Reading and Conference

Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

GTD 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

GTD 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

GTD 598 Special Topics

Political Development in the M

Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GTD 598 Special Topics
Tech & Devl. in Zones of Confl
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Tech & Dev: North Africa
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Technology and Development in Global Education
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Sustainable Devel Across Medi
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Tech & Devl in Global Nucl En
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GTD 598 Special Topics
Morocco/Spain Study Abroad
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GTD 598 Special Topics
Tech & Devl. in Global Educati
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 309 Exploration and Empire

Surveys European discovery, exploration, and imperialism in the early modern and modern periods.

HST 325 Immigration & Ethnicity in US

Origins, historical development, and future of a multiethnic society, 1492 to 2050.

HST 328 Women in US History, 1880-1980

Examines American women of diverse racial, religious, and ethnic groups and classes; focuses on changing definitions of women’s roles.

IBC 602 Healthcare Statistics

Provides an overview of contemporary issues in health statistics and develops student proficiency in completing hands-on statistical analyses using Microsoft Excel. Develops proficiency in using Excel to manage data analyses as an ongoing tool to collect and analyze clinical and cost-effectiveness data in primary care and related healthcare settings.
IBC 604 Clinical Med/Pathophysiology

Overview of each of the main systems within the human body. Addresses the major diseases (symptoms, diagnosis, and medical treatments) within each system. Students learn appropriate medical terminology for symptoms, diseases, treatments, and medical tests so they can communicate effectively with medical practitioners (nurses and physicians). Content is equivalent to pathophysiology training in an RN program. Also addresses the role of behavioral care providers in medical settings; design and implementation of psychoeducational programs in primary care; stress management techniques for use in medical settings; chronic pain management; identification and treatment of somatization disorder; increasing compliance in noncompliant patients; alternative/complementary medicine; overview of nutrition; and the effects of exercise and nutrition on prevention and treatment of diseases.

IBC 608 Psychopharmacology Behav Care

Provides overview of psychopharmacology to equip the behavioral care provider with the understanding of psychotropic medications necessary to make prescription recommendations to primary care physicians and to participate in medication management for patients being prescribed psychotropics. Basic principles of pharmacology in general, including pharmacokinetics, pharmacodynamics, medication development and the FDA approval process, interaction effects, drug company marketing strategies, appropriate and inappropriate medication usage, over-medication, and off-label medication use. Pharmacokinetics and pharmacodynamics in special populations (children, the elderly, and patients with co-morbid medical and psychological conditions). The Biodyne protocol for medication management, with emphasis on determining which psychological disorders are likely to be medication responsive. Major classifications of psychotropic medications: stimulants, antidepressants, anxiolytics, antipsychotics, mood.
IBC 609 Clinical Neuropathophysiology

Presents overview of each of the basic neuroanatomy, neurophysiology, and a focus on the manifestations of neurophysiological dysfunction across the life span for Doctor of Behavioral Health (DBH) program behavioral clinicians. Covers the basic human brain anatomy, neurophysiological processes, development, and maturation. Using case studies, presents and discusses evidence-based support for theories of psychiatric disorders and neuropsychopathology. Incorporates evidence-based research findings on the role of genetics, neurophysiological adaptation, epidemiological and societal influences in order to develop understanding of disruptions in normal neurophysiological functioning.

IBC 610 Behav & Psych Assess Prim Care

Presents a comprehensive model of behavioral and psychological assessment for behavioral health clinicians in primary care and related medical settings. Provides behavioral health consultants with the necessary knowledge base and skills to develop an appropriate assessment and treatment plan for a variety of commonly seen complaints in primary care. Places attention on the assessment of both psychiatric and behavioral complaints across the lifespan. Students become familiar with both structured interview and empirically support quantitative measures consistently utilized to enhance our understanding of the presenting complaint.

IBC 624 Integ Behav Hlth Care Child Ad

Integrates developmental psychology with pediatric psychology in order to prepare behavioral clinicians to provide screening, assessment, and intervention for children and adolescents in primary care and other medical settings. Presents an overview of developmental stages with an emphasis on critical tasks, while contrasting normal versus abnormal development. Develops societal, familial, and cultural influences.
IBC 634 Strategies & Techn for Behv

Examines and discusses the theoretical and applied health-related research changing nutrition, smoking and physical activity behaviors in clinical practice.

IBC 660 Healthcare Legal Ethcl & Prof

Integrate three key areas of healthcare ethics, law, and professional issues for the Doctor of Behavioral Health (DBH) clinician in primary care: (1) the code of ethics for psychologists; (2) legal and ethical issues in medicine; and (3) technological issues and the behavioral health provider.

IBC 680 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 704 Evidence-Based Behav Inter I

Covers the basic principles of the Biodyne Model, which are applicable to all behavioral health cases, both in outpatient mental health settings and in integrated care settings. Core knowledge forms the basis for success as a behavioral care provider in integrated medical settings. Includes common psychotherapist mistakes, evidence-based treatment, basics of the Biodyne Model, survey of integrated care approaches, defense mechanisms, case conceptualization strategies for maximum efficiency, and when to refer a patient for specialty care. Presents in detail common conditions (anxiety and depression), with a focus on how these conditions can be subcategorized for maximum treatment efficiency. Emphasizes the development of comprehensive treatment plans (including psychotropic medications, group programs, and other modalities). Presents didactic material in the context of actual cases. Strong focus on case examples, both illustrative cases provided by the instructor and the students’ cases
IBC 706 EVB Interventions II: Adv Skill

Cover advanced principles of evidence-based integrated behavioral care in primary care and other medical settings. Focuses on both advanced behavioral interventions theory and practice and more complex diagnostic groups and related interventions.

IBC 712 Population-Based Behv Hlth Mgt

Overview epidemiology for health care followed by population-based approaches to behavioral intervention. Epidemiology includes concept of populations; descriptions and definitions of health and disease; measurement of health (measures, morbidity, mortality and health); designs for studying the health of populations and standardization of population health measures. Population-based management includes definitions of medical management; planning health care for populations and population health outcomes; quality of care and economic analysis of population-based interventions; adjunctive treatments as a core component of population-based interventions. Also, advanced application of population-based behavioral interventions with a focus on design, measures, analysis, results and discussion of current approaches. Includes predictive modeling methods for defining populations; interventions focusing on stepped-care approaches; engagement strategies, interventions, measurement, and follow-up

IBC 714 Quality & Perf. Measure, Impvr

Overview of healthcare quality management, emerging models of healthcare performance measurement, and models of pay for performance incentives in healthcare designed to reward providers for attaining quality of care goals. Prepares behavioral clinicians to provide services that are consistent with best practices in quality management and performance measurement in healthcare and to provide care that is consistent with performance incentive programs that are present or on the horizon. A key characteristic of healthcare reform is increased focus on provider quality of care, accountability for quality via performance measurement, and aligning provider incentives to meet national and regional quality of care performance targets.
IBC 718 Healthcare Syst: Org, Del, Econ

Provides an overview of the U.S. healthcare system with a focus on economics and policy. Primary goals of the course are to enable students to recognize the relevance of economics to healthcare and to apply economic principles to better understand health-related issues; understand the U.S. healthcare delivery system in the context of social, policy, and economic factors; evaluate the evolving nature of healthcare reform initiatives and their implications for clinical practice, financing, research and policy; analyze public healthcare policy from an economic perspective. Students also focus on behavioral healthcare economics and policy and the economics of behavioral health services in medical settings. Students also understand the medical cost offset effect, including economic benefits of behavioral interventions for co-morbid medical and behavioral conditions, measurement of medical cost-offset, and cost-offset for psychopharmacology and specific behavioral conditions.

IBC 720 Behavioral Health Entrepreneur

Provides an introduction to the essential entrepreneurship skills for the behavioral healthcare clinician. Focuses on entrepreneurial skills designed to prepare the behavioral clinician to start a new business venture or revitalize an existing organization or business, to meet the needs of the evolving healthcare system and marketplace.

IBC 728 Cultural Diver., Hlth & Illnes

Focuses on the relationship among cultural diversity, health and illness, and multicultural psychotherapy in primary care and other healthcare settings. Prepares behavioral clinicians to identify the relationship between cultural diversity and health and illness and to use effective psychotherapy informed by cultural diversity in primary care and related medical settings.

IBC 780 Practicum
Strat & Tech Behav. Change Pri
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
IBC 780 Practicum
Cognitive/Affective Bases of H
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
IBH Substance Use Primary Care
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
Innov. Techn. in Behav. Health
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 780 Practicum
Behavioral Health Management
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

IBC 793 Applied Project
Clinical Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IDS 201 Intellectual Fusion
Introduces students to the history of interdisciplinarity. Examines major theories and methods of interdisciplinarity, and students use these methods to begin to examine complex interdisciplinary problems.

IDS 300 Theories & Applications Org Stds
Critical analysis and application of organizational theory and conceptual perspectives to identify and solve problems, emphasizing personal and organizational application.
IDS 301 Becoming Interdisciplinary

The history of interdisciplinarity and methods of integrating knowledge and insights from multiple perspectives.

IDS 302 Integration Skills

Develops integrative skills to create new understandings, models, products and ideas.

IDS 302 Integration Skills
Integrative Ethnographic Methods
Develops integrative skills to create new understandings, models, products and ideas.

IDS 302 Integration Skills
Integrative Thinking
Develops integrative skills to create new understandings, models, products and ideas.

IDS 302 Integration Skills
Interdisciplinary Forecasting
Develops integrative skills to create new understandings, models, products and ideas.

IDS 302 Integration Skills
Interdisciplinary Inquiry
Develops integrative skills to create new understandings, models, products and ideas.

IDS 310 Integration: Cultural Contexts
Integrative Performance
Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand cultural diversity in contemporary U.S. society.

IDS 311 Integration: Global Contexts
Reifying Conservation
Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand global issues.
IDS 312 Integrative Perspect on Change
Death & Dying Intrdis Approach
Applies integrative and interdisciplinary tools, methods, knowledge and skills to examine ideas, issues and institutions as they change over time.

IDS 312 Integrative Perspect on Change
Predators, Pets, and Pests
Applies integrative and interdisciplinary tools, methods, knowledge and skills to examine ideas, issues and institutions as they change over time.

IDS 313 Integrtv Persp on Chnging Wrld
History/Cult Impact of Gaming
Applies integrative and interdisciplinary tools, methods, knowledge and skills to examine global ideas, issues and institutions as they change over time.

IDS 313 Integrtv Persp on Chnging Wrld
Cult and Chemical Hist of Beer
Applies integrative and interdisciplinary tools, methods, knowledge and skills to examine global ideas, issues and institutions as they change over time.

IDS 313 Integrtv Persp on Chnging Wrld
Sex Sexualities Time and Place
Applies integrative and interdisciplinary tools, methods, knowledge and skills to examine global ideas, issues and institutions as they change over time.

IDS 315 Integration: Social Contexts
Integrative Nat Behavioral Dy
Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand human behavior and interactions.

IDS 315 Integration: Social Contexts
Political Econ of Work & Orgs
Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand human behavior and interactions.
IDS 315 Integration: Social Contexts

Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand human behavior and interactions.

IDS 315 Integration: Social Contexts
The Global Workplace
Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand human behavior and interactions.

IDS 316 Integration: Humanities Context

Explores how the practice of integrating knowledge, skills and perspectives from multiple sources can be used to better understand human thought and creativity.

IDS 321 Interdisciplinary Issues
Prohibition and the Jazz Age
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

IDS 321 Interdisciplinary Issues
1950s American Culture
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

IDS 321 Interdisciplinary Issues
Prohibition & the Roaring 20’s
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

IDS 321 Interdisciplinary Issues
Millennials and Politics
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.

IDS 321 Interdisciplinary Issues
Baseball: Business and Culture
Focuses on an interdisciplinary topic from the perspective of multiple disciplines.
IDS 394 Special Topics
Taste of Peace Corps in D.R.

Covers topics of immediate or special interest to a faculty member and students.

IDS 401 Integration: Experiential
Applied Study
Offers students the opportunity to apply their integrative skills in internships, directed projects or other experiential contexts.

IDS 401 Integration: Experiential
Offers students the opportunity to apply their integrative skills in internships, directed projects or other experiential contexts.

IDS 401 Integration: Experiential
Interdisciplinary Fellowship
Offers students the opportunity to apply their integrative skills in internships, directed projects or other experiential contexts.

IDS 401 Integration: Experiential
Directed Interdisc Studies
Offers students the opportunity to apply their integrative skills in internships, directed projects or other experiential contexts.

IDS 484 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

IDS 499 Individualized Instruction
Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

LST 370 Dimensions of Liberal Studies
Critical analysis and application of concepts of liberal studies and its modes of inquiry. Prerequisite: BLS student; sophomore status; completion of first-year composition.
LST 470 Liberal Studies Seminar
Social Activism thru the Arts
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Touring Renaissance Florence
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Tabletop Game Analysis
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Seeking Self and Identity
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Understanding Place
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Meaning Through Design
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
The Three Cultures
Advanced analysis and application of theories and methods of human and social inquiry.
LST 470 Liberal Studies Seminar
Spotlight on Chinese Orgs
Advanced analysis and application of theories and methods of human and social inquiry.

LST 470 Liberal Studies Seminar
Renaissance Florence
Advanced analysis and application of theories and methods of human and social inquiry.

MAT 117 College Algebra

Linear and quadratic functions, systems of linear equations, logarithmic and exponential functions, sequences, series, and combinatorics.

MAT 142 College Mathematics

Applies basic college-level mathematics to real-life problems. Appropriate for students whose major does not require MAT 117 or 170.

MAT 275 Modern Differential Equations

Introduces differential equations, theoretical and practical solution techniques. Applications. Problem solving using MATLAB.

MAT 294 Special Topics

Covers topics of immediate or special interest to a faculty member and students.

MLS 501 Writing about Social Issues:SW

Reading and discussion of nonfiction writing on social issues that integrate cultural, gender, and societal issues that affect the well-being of urban communities with special attention to the Southwest.
MLS 503 Ethics, Science, and Culture

Introduces ethics related to the practice of art, science, and medical practice in modern and premodern society.

MLS 504 Film Analysis

Introduce formal and cultural issues important to understanding movies.

MLS 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

MLS 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

MLS 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

MLS 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

MLS 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.
MLS 598 Special Topics
Humor Writing
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Crimes & Punishments
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
60s Decade of Turmoil
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
70s Decade of Upheaval & Trans
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Writing the Journey
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Exploring Identity in American
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
MLS 598 Special Topics
Hip Hop: Arts, Aesthetics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Food, Film & Culture
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Taboo in Texts & Visual Texts
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
The Arrival of Belief
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

OGL 200 Intro to Org Leadership

Presents a broad survey of leadership theory and research as currently practiced in formal organizations. Includes examination of leadership models, power and influence, team leadership, cross-cultural leadership, strategic styles of interaction, ethics, leadership skill development, decision-making techniques and effective goal implementation.
OGL 220 Behavioral Dynamics in Org

Explores the different theories, strategies and skills that managers and subordinates need to develop to improve interpersonal relations. Primarily emphasizes skill areas in leadership, motivation, communication, group dynamics, organizational development, conflict resolution, political strategy, cross-cultural relations, ethical behavior, stress management and time management. Develops effective strategies for becoming effective managers, subordinates, peers and students.

OGL 240 Intro to Project Management

Offers insights into each step of the project management process through an examination of various theoretical approaches.

OGL 260 Resource Allocation in Org

Introduces the decision-making framework of resource allocation within the broader context of basic business finance. Students learn that resource allocation decisions are regularly guided by fundamental principles in finance. Primarily focuses on business resources, resource management and allocation, accounting statements, profit and loss drivers, cash and profit statements, balance sheets, budgets and forecasts, management accounts and capital investment.

OGL 260 Resource Allocation in Org

Introduces the decision-making framework of resource allocation within the broader context of organizations and society. Students learn that resource allocation decisions are regularly guided by values, organizational purpose, and fundamental principles of value creation and sustainability. Primarily focuses on the development, management, and allocation of tangible and intangible resources; accounting statements; profit and loss drivers; risk, return and tradeoffs; and stakeholder accountability.
OGL 300 Theory Practice of Leadership

Presents an in-depth study of leadership theory and its practical application in formal organizations. Includes examination of the trait approach, situational approach, contingency theory, path-goal theory, leader-member exchange theory, transformational leadership, psychodynamic approach, and women and leadership. Emphasizes application of these theories in real-world case studies.

OGL 320 Foundations Project Management

Covers project management terminology, tools, best practices, theoretical approaches, the phases of project management and how they are applied developing a project plan and schedule, and other competencies needed to effectively manage projects.

OGL 321 Project Leadership

Explores how executive management is responsible for conceiving, designing, implementing and managing the organization’s overall objectives, culture, environment and processes as part of the project management process. Within this context, primarily focuses on understanding project management, aligning project management with the organization, project management oversight, projects as capital investments, globalization and resources optimization.

OGL 322 Project Time Management

Explores project scheduling and time management within the broader context of the planning effort. Students learn how important the determination of the timing and sequence of project activities is to the planning process--and ultimate project success. Primarily focuses on understanding bar charts, basic networks, the critical path network, precedence networks, resource allocation, schedule updating, schedule compression, scheduling and schedule risk management.
OGL 323 Project Cost Management

Concepts and complex processes of effective project cost management. Primarily focuses on project needs assessment, cost estimation, project cost control, project budgeting, cash flow management, financial management, value management, configuration management and supply chain management. Students also learn to appreciate the importance of integrating cost and value management processes.

OGL 324 Resources Project Management

Major elements of project resource management as well as the broader context of this critical planning function. Students learn that sound resource management is an important part of developing a sustainable competitive advantage in the emerging global marketplace. Primarily focuses on operations and productivity, resources in project management, product design, process strategy, layout strategy, human resources and job design, supply chain, inventory management and scheduling.

OGL 326 Project Procurement Management

Concepts and processes of procurement management. Primarily focuses on sourcing management, supplier selection, contracts and legal requirements, risk management, negotiation, project management, quality, supplier management and financial decisions. Effective procurement requires the use of good business practices capable of maximizing value to the organization through the acquisition of goods and services. Students learn that procurement professionals control the entire sourcing and acquisition process.

OGL 340 Organizational Skills
Dialogue in the Workplace
Develops and enhances skills needed in effective organizations such as communication and the use of technology.
OGL 340 Organizational Skills
Working in New Zealand
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

OGL 340 Organizational Skills
The Aikido Way
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

OGL 340 Organizational Skills
Socrates, the Super Worker
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

OGL 340 Organizational Skills
Digital Citizenship
Develops and enhances skills needed in effective organizations such as communication and the use of technology.

OGL 343 Social Processes in Orgs
Examines the interdisciplinary nature of social processes and human interactions across a number of different organizational contexts.

OGL 345 Organizational Ethics
Explores and considers normative and applied ethics within a variety of organizations.

OGL 350 Diversity and Organizations
Critical interdisciplinary analysis of individual, cultural, and organizational diversity.
OGL 355 Leading Org Innovation

Process and theory of strategic management with primary emphasis on situation analysis, strategy formulation, strategy implementation and strategy evaluation. Covers the strategic management context, external analysis, internal analysis, functional and competitive strategies, international strategies, strategic entrepreneurship and nonprofit strategy. Students understand the process of analyzing situations, developing appropriate strategies, putting those strategies into action, and evaluating and changing those strategies as needed.

OGL 357 Assessment in Organizations

Considers the role and function of assessment in effective organizations. Provides the knowledge and tools required to identify, collect and analyze information to assess organizations.

OGL 360 Assessment of Leadership

Empirical analysis of leadership, a conceptual model of effective leadership, and a practical guide for developing the competencies and attributes most likely to produce effective leaders. Primarily focuses on leadership competencies, organizational fit, leadership strengths, fatal flaws, leadership teams, leadership development, improvement measurement and leadership follow through. Students learn to distinguish between leadership success and leadership effectiveness.

OGL 365 Organizational Contexts

U.S. Peace Corps
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts

Indigenous Peoples of Belize
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.
OGL 365 Organizational Contexts
Imagining NGOs
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
Cuba: Past, Present & Future
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
Leaders in Film
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
The Integrated Worker
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
Leadership, Innovation & Development
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
International Organization
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
Reinventing Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.
OGL 365 Organizational Contexts
Sports Leadership
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 365 Organizational Contexts
Czech Republic Organizations
Explores how organizations function by analyzing in depth a specific organizational context like health care, family, education, government, community, religion or the economy.

OGL 375 Corporate Ldrshp - Starbucks

Examines leadership from the perspectives of the leaders of one of the most trusted and respected companies in the world, Starbucks.

OGL 421 Project Risk Management

Philosophy, principles, practices and techniques for managing risk in projects. Covers risk identification, qualitative risk management, risk treatment, monitoring and review, project processes, risk allocation, environmental risk and quantification of project risk. Students learn that risk management assists project managers in setting priorities, allocating resources and implementing actions and processes that reduce the risk of the project not achieving its objectives.

OGL 422 Project Quality Management

Process and theory of total quality management with primary emphasis on the total quality approach, ethics and corporate responsibility, strategic alliances, quality culture, employee empowerment, leadership and change, team building, effective communication, and tools and techniques. Students understand how continual improvement of people, processes, products/services, and environments can enhance the process and outcomes of project management. Students have the opportunity to develop practical total quality management skills as they apply theory and practice to real-world cases.
OGL 481 Org Leadership Pro-Seminar I

Students draw on their experiences in previous organizational leadership courses, employing key concepts, theories and skills learned throughout the program toward the strategic analysis of organizations. Using Bolman and Deal's organizational frames concept, students synthesize key learnings across their education and explore organizations through four unique perspectives.

OGL 482 Org Leadership Pro-Seminar II

Students draw on their personal background, individual differences, knowledge and skills to assess career choices that maximize their strengths, values and passions. Students explore their own balance between work and the other important elements in life, and develop strategies for living a meaningful and fulfilling life, at least through work. Explores the notion of career management and work/life integration from a number of different perspectives, and centered on one's own unique personal characteristics, life circumstances and goals. Explores some of the most relevant career management literature/theory, taking into consideration the interdisciplinary nature of this topic. Also connects students with some of the ideas learned in previous organizational leadership core courses, conducts a qualitative, thematic self-analysis, develops short-term and long-term career/life plans, and collect artifacts to help along life's journey.

OGL 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

OGL 498 Pro-Seminar
Pro-Seminar I

Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.
OGL 498 Pro-Seminar
Pro-Seminar II
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

OGL 498 Pro-Seminar

Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

OGL 520 Social Psychological Perspectives

Social psychology is defined by the social influence that all people have on the beliefs, feelings and behavior of others. Studies social influences, the behavioral ramifications associated with the psychology of social processes and the ramifications for organizations and organizational leadership. The foundations of the field of social psychology, methodological approaches, interdisciplinary perspectives and application-oriented ideas and innovations form the basis for this course that integrates scholarship and applied social psychology to gain an enhanced perspective on the social influences associated with organizational and interpersonal behavior. From a leadership perspective, explores ideas as diverse as interpersonal influence, attitude formation and differentiation, stereotyping and prejudice, attraction, persuasion, obedience and aggression.

OGL 530 Critical Perspctv Ldshp Theory

Engages the normative and epistemological underpinnings of many of the theories of organizational leadership studies. This critical engagement explores how assumptions about leadership and leadership theories may challenge or reinforce, overtly or not, oppressive social relations. Places leadership studies as an academic field in a broader social, political, cultural and ethical context to best address the embedded assumptions in leadership relations.
OGL 540 Evidence Based Inquiry

Provides a broad understanding of the methodological issues involved in leadership research. As such, exposes students to the assumptions, principles and applications of a selected set of research methods, whether inductive, deductive or abductive. Largely hands on with a focus on discussion and exercises.

OGL 550 Leading Organizational Change

Organizations are a combination of structures, processes and relationships that bring people together to achieve a common goal. However, organizations do not operate in isolation—they are embedded in complex social, political and financial contexts. Leadership requires individuals to discern and balance competing demands and tensions inherent in organizations. Provides an overview of organizational theories to help leaders understand and be effective in these contexts. By looking at organizations through metaphorical lenses such as machines, brains and organisms, students learn how to create new options for organizational success in ever-changing operating environments. Applies theories to case studies to develop insights and innovative approaches to organizational change. A student deliverable is the creation of a plan to map out the student’s capstone project in preparation for the applied project.

OGL 554 Learning & Development in Orgs

Focuses on adult learning interventions and professional development within the context of a learning organizational setting. Integrates motivation and adult learning, current neuroscience, Bohm dialogue and instructional design. Develops the knowledge and skills needed to plan, design, develop, implement and evaluate adult learning interventions (materials, courses, curricula, programs) within different forms of organizations.
OGL 561 Collaborative Governance

Exposes students to the opportunities and challenges of the non-market, non-state realm of nongovernmental organizations and how they facilitate private-public partnerships. Assesses the realm of action, appropriateness of their missions and where they find their limitations. Requires students to think globally and consider the roles of various actors of civil society with a critical eye.

OGL 571 Advanced Leadership Assessment

Students reflect on and assess their advancement as leaders while also critiquing and assisting with the development of leadership abilities in colleagues. Leadership effectiveness and social dynamics are analyzed in contexts ranging from students’ own experiences to narratives in historical, literary, anthropological, political and sociological contexts. Hands-on practice with leadership assessment surveys is central to the course, and students are trained in creating their own versions of qualitative and quantitative questions on 360-degree surveys.

PHI 101 Introduction to Philosophy

Explores issues that philosophers have traditionally considered, including morality, reality, and knowledge.

PHI 103 Principles of Sound Reasoning

Fallacies, validity, and soundness of arguments. May include syllogistic, elementary symbolic, inductive logic, and scientific method.

PHI 105 Intro to Ethics

Philosophical examination of such questions as, How should we live? Is morality a social invention? Does anything matter?
PHI 306 Applied Ethics

Philosophical discussion of contemporary moral and political issues, such as abortion, euthanasia, animal rights, affirmative action, and sexual rights.

PHI 314 Philosophy of Science

Structure and justification of scientific theories, explanation, and theory change. Roles of observation and laws, theoretical concepts and entities, reduction, probability, confirmation, space and time, and causation.

POS 210 Political Ideologies

Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures.

POS 216 State and Local Government

Surveys the operations, problems, and policies of state and local governments in the United States.

POS 310 American National Government

Powers, functions, and agents of American political institutions. Meets the federal government requirement for teacher certification. Credit is allowed for only POS 310 or 110.

POS 310 American National Government

Powers, functions, and agents of American political institutions. Meets the federal government requirement for teacher certification.

POS 360 World Politics

Theory and practice of statecraft as applied to selected issues, regions, or eras. Emphasis may vary with instructor, but cannot be repeated for credit.
POS 494 Special Topics  
Tech & Devl. in Zones of Confl  
Covers topics of immediate or special interest to a faculty member and students.

POS 494 Special Topics  
Tech & Devl. in Global Educati  
Covers topics of immediate or special interest to a faculty member and students.

REL 207 Ritual, Symbol, and Myth  
Ritual, symbol, and myth as types of religious expression, with examples selected from the nonliterate religions of the world.

REL 320 American Religious Traditions  
Examines the formation, development, and interaction of major American religious traditions (indigenous, African American, Asian American, and Euro-American).

REL 321 Religion in America  
History of religion in America with attention to issues of historiography, pluralism, gender, race, ethnicity, politics, and social reform.

REL 374 Witchcraft & Heresy in Europe  
Background, origins, and development of the Inquisition; persecution of women and marginal groups.

SOC 101 Introductory Sociology  
Fundamentals of sociology, organization of human groups and society, processes of interaction, and social change.

SOC 241 Modern Social Problems  
Race relations, poverty, unemployment, and other current issues.
SOC 332 The Modern City

Growth, characteristics, and problems of the modern city.

SOC 332 The Modern City

In-depth analysis of the growth, characteristics, and problems of the modern city.

SOC 352 Social Change

Patterns of social change, resistance to change, and change-producing agencies and processes.

SOC 420 Sociology of Religion

Interrelationship of culture, society, and religion; religion and social stratification; religious, economic, and political institutions; social change and religion. Emphasizes American society and institutions.

SOC 421 Education and Society

Uses contemporary sociological perspectives to examine effects of schools and schooling on individuals and society.

SPA 118 Basic Spanish for Health Care

Introductory Spanish course that focuses on helping students develop basic oral Spanish skills that allows them to interact with patients in the health care settings. Health care-related vocabulary, simple medical scenarios and basic grammar form the majority of the course curriculum. Students are responsible for completing virtual oral dialogues with a partner each week.
SPA 218 Inter Spanish for Health Care

Intermediate Spanish course that focuses on helping students develop oral Spanish skills that allow them to interact with patients in the health care settings. Health care-related vocabulary, the impact of culture on health care, medical scenarios and intermediate grammar form the majority of the course curriculum. Students are responsible for completing virtual oral dialogues with a partner each week.

SPA 317 Spanish for the Professions

Advanced-level course that serves as an introduction to the Spanish for the Professions minor or certificate. Develops oral and written skills that prepares students to use their Spanish in their careers and/or professional fields of interest. Also covers several cultural points that facilitate effective interaction with Spanish speakers in the professional world and global community.

SPA 318 Adv SPA for Health Care Prof

Advanced Spanish course that focuses on helping students develop oral Spanish skills that allow them to interact with patients in the health care settings. Health care-related vocabulary, the impact of culture on health care, medical scenarios and advanced grammatical structures form the majority of the course curriculum. Students are responsible for completing virtual oral dialogues with a partner each week.
SPA 402 Written Comm. for the Prof

Students hone their Spanish literacy (reading and writing) skills in the context of serving U.S. Latino clients in the community (e.g., schools, government agencies, social work settings, medical settings) or reporting on issues of interest to the Hispanic community. Students read and understand documents in Spanish that they would come across in the process of assisting monolingual Spanish-speakers in the public sector or doing research on the Hispanic community (e.g., birth certificates, academic transcripts, medical reports, criminology documents, newspaper or magazine articles). Students gain practice in creating written documents in Spanish that would assist their communication with Latino clients in formal (professional) and informal contexts or that would allow them to report intelligently on issues of interest to the Hispanic community.

SPA 403 SPA Gram and Stylistics for Pr

Students raise their level of awareness of appropriate grammatical, lexical and stylistic forms to use in their oral and written communication with U.S. Latino clients in formal (professional) and informal contexts in the community (e.g., schools, government agencies, social work settings, medical settings) or for reporting on issues of interest to the Hispanic community. Students enhance their analytical skills by analyzing and comparing Spanish oral and written discourse for genre-appropriate features (stylistics), grammaticality, mechanics, coherence and for a logical flow of ideas in public documents and oral discourses meant for a U.S. Latino audience.
SPA 404 SPA in U.S. Prof. Communities

Students investigate linguistic issues that impact the U.S. Latino community's interaction with professionals (e.g., interaction with service providers in schools, government agencies, social work settings, medical settings; language planning at state and local levels; Spanish spoken in different regions in the U.S.; Spanish language assessment of public sector employees; creation of Spanish for Professional Purposes courses). Students also learn to report on issues of interest to the Hispanic community.

SPA 405 Latino Cult. Persp. for the Pr

Requires students to investigate the Latino cultural perspectives that underlie and affect communication in the professional world. Students come to understand the historical context that has affected the lives of Latino community in the U.S. and take a critical look at values traditionally associated with Latino culture (e.g., the importance of family ties, fatalism, honor, respecting elders, machismo or marianismo), which provide background information for professionals in the public sector who need to serve the needs of the Hispanic community.

SPA 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

STP 226 Elements of Statistics

Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation.

STP 420 Introductory Applied Statistic

Introductory probability, descriptive statistics, sampling distributions, parameter estimation, tests of hypotheses, chi-square tests, regression analysis, analysis of variance, and nonparametric tests.
STS 101 Intro Science, Tech, & Society

Overview of the basic issues, definitions, and literature involved in the study of science, technology, and human systems. Credit is given for only STS 304 or 101.

STS 260 Politics of Science & Technology

Explores the relationship among government, politics, science, and technology, especially the interdependence of public policy and science and technological pursuits.

STS 303 History of Science & Technology

Examines the history of technology within social, cultural, political, and economic contexts and the critical relationship between society and technology.

STS 304 Science, Tech, and Society

Overview of the major issues associated with the study of science, technology, and human systems, including theoretical approaches. Credit is given for only STS 304 or 101.

STS 304 Science, Technology & Society

Overview of the major issues associated with the study of science, technology, and human systems, including theoretical approaches. Credit is given for only STS 304 or 101.

STS 328 Science, Technology, & Culture

Overview of technology and international cultures, including cultural definitions of science and technology. May intersect issues of culture and religion.

STS 329 Cultiv Tech in New Ind Ctry

Covers specific issues relating to building technological capability in newly industrializing countries.
STS 329 Tech in Developing Countries

Covers specific issues relating to building technological capability in newly industrializing countries.

STS 330 Info Tech and Globalization

Examines the intersection of advances in information technology and globalization and the impact of these processes on human systems.

STS 332 Global Issues in Science &Tech

Examines contemporary international debates in science and technology and how those issues impact globalization.

STS 364 Science, Tech, & Nat'l Security

Examines how changing technologies impact all aspects of national security policy in the United States.

STS 401 Statistics in Sci & Tech Studies

Introduces statistical techniques for the social sciences, including the role and rationale of statistics, descriptive measures, associational measures, and inferential statistics.

STS 494 Special Topics
Sci of Detecting Suicide Bombers
Covers topics of immediate or special interest to a faculty member and students.

TWC 301 Gen Prin of Multimedia Writing

Introduces writing in a variety of media, understanding the consequences of integrating media, and effective editing techniques.

TWC 301 Fundamentals Writing Dig Media

Foundational concepts and technologies of writing for a variety of digital media.
TWC 347 Written Comm for Managers

Introduces strategies, formats, and techniques of presenting information to business and other workplace audiences.

TWC 347 Written Comm for Managers

Strategies, techniques and genres for developing and presenting information intended for business and other workplace audiences.

TWC 361 Writing for Health Care Mgmt

Strategies, formats, and techniques for effective writing and presentation of information for nursing professionals.

TWC 362 Writing in Health Professions

Focuses on effective communication practices in health-related fields, emphasizing communicating professionally with both scholarly and workplace audiences. In addition to providing a foundation in workplace communication, emphasizes information and technology literacy to help students become proficient in collecting, analyzing, interpreting and synthesizing information using appropriate tools, sources and styles.

TWC 401 Principles of Technical Comm

Basic information design principles to produce effective written, oral, and electronic technical communication. Understanding of rhetorical and audience analysis.

TWC 401 Fundamentals of Technical Comm

Basic information design principles for producing effective technical communication, including rhetorical and audience analysis, as well as common workplace genres and technical communication tools.

TWC 403 Writing for Prof Publication

Analyzes the market and examines the publication process, including the roles of the author, editor, and reviewer.
TWC 411 Prin of Visual Communication

Basic principles of visual communication in print and electronic media. Understanding graphic and document design, including typography and color.

TWC 411 Prin of Visual Communication

Principles and tools of visual communication in print and electronic media, with an emphasis on document design, including typography and color.

TWC 414 Visualizing Information

Covers how to process data and information in ways that help discover what's important about the information and what the clearest way is to communicate that information. Covers how to manage data and use a variety of software tools to communicate patterns and tell visual stories, as well as how to make choices in visualization style in ways that will assist an audience to effectively interact with and process the information.

TWC 414 Visualizing Data & Information

Covers how to process data and information in ways that help discover what's important about the information and what the clearest way is to communicate that information. Covers how to manage data and use a variety of software tools to communicate patterns and tell visual stories, as well as how to make choices in visualization style in ways that will assist an audience to effectively interact with and process the information.

TWC 421 Principles/Writing with Tech

Understanding historical and social impact of technology on writing, with emphasis on multimedia design, computer-mediated communication, and hypertext.
TWC 421 Principles of Web Authoring

Principles of writing for the Web, including information architecture, accessibility, usability and responsive design. Explores basics of markup language and content management.

TWC 422 Social Media in the Workplace

Analyzes different social media platforms and develops strategies and techniques for effective and appropriate use of social media in the workplace.

TWC 431 Principles of Tech Editing

Basic principles of technical editing (for print and electronic media) including copyediting, reviews, standards, style, and project management.

TWC 431 Principles of Tech Editing

Principles and techniques of technical editing for print and electronic media, including standards, styles, copyediting, comprehensive editing and project management.

TWC 435 Global Issues in Tech Comm

Helps students understand issues that shape workplace communication in a global environment. Technical communicators are expected to be specialists who interact effectively with a broad range of audiences. Given the global nature of today’s workplace, those audiences typically include people from many cultures and countries. Through readings, written assignments, and analysis of case studies, documents, and websites, explores ways in which culture and language shape professional interactions. Also examines other critical issues such as translation, localization, technology and distributed work teams that impact writing and designing documents in a globalized work environment.
TWC 436 Project Mgmt in Tech Comm

Effective project management processes are central to technical communication in the workplace, and project management figures prominently in job descriptions for technical communicators at all levels. Introduces the literature, tools and techniques of project management within technical communication. Focuses on learning effective project management best practices during the life cycle of technical communication projects, which may include documentation or training projects. Uses case studies and Web pages, group discussion, presentations and individual and team projects to aid in understanding and application of project management for technical communication.

TWC 443 Proposal Writing

Develops persuasive strategies and themes for researching and writing professional proposals.

TWC 443 Grant & Proposal Writing

Develops persuasive strategies and approaches for researching and writing professional funding proposals and grant applications.

TWC 444 Manual & Instructional Writing

Design and development of a user manual, writing instructions, improving graphics and page design, and usability testing.

TWC 444 User Experience

Explores principles, techniques and tools of user experience (UX), including user and task analysis, user-centered design and usability testing.

TWC 445 Computer Documentation

Introduces writing documentation for the computer industry.
TWC 445 Content Mgmt&Topic-Bsd Autring

Explores concepts, techniques, strategies and technologies for authoring, managing, and publishing re-usable content in online documentation, help files and other types of technical communication.

TWC 445 Content Strategy

Explores concepts, techniques, strategies and technologies for authoring, managing, and publishing re-usable content in online documentation, help files and other types of technical communication.

TWC 446 Technical & Scientific Reports

Introduces strategies, formats, and techniques of presenting information to technical and scientific audiences.

TWC 446 Technical & Scientific Reports

Explores strategies and techniques for developing informational and analytical reports in a range of genres and for a variety of audiences in scientific and technical fields.

TWC 451 Copyright/Intellect Prop/Elect

Explores issues related to copyright and intellectual property laws, with emphasis on electronic environment.

TWC 452 Information in the Digital Age

Explores the creation, organization, dissemination, and use of information; the impact of technologies; and surrounding economic, legal, and social issues.

TWC 453 Info/Comm Tech/Amer History

Explores the historical development of information and related technologies in the United States from colonial times to the present. Credit is allowed for only TWC 453 or 553.
TWC 453 Info/Comm Tech/Amer History

Explores the historical development of information and related technologies in the United States from colonial times to the present.

TWC 454 Information Tech & Culture

Explores the historical impact and intersection of communications technology and culture in America.

TWC 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

TWC 490 Capstone

Development of a professional portfolio, creation of a culminating document, and synthesis of undergraduate experience.

TWC 494 Special Topics
Information Representation
Covers topics of immediate or special interest to a faculty member and students.

TWC 494 Special Topics
Medical Rhetoric
Covers topics of immediate or special interest to a faculty member and students.

TWC 494 Special Topics
Visualizing Information
Covers topics of immediate or special interest to a faculty member and students.

TWC 494 Special Topics
Social Media in the Workplace
Covers topics of immediate or special interest to a faculty member and students.
TWC 494 Special Topics
Global Issues in Technical Comm
Covers topics of immediate or special interest to a faculty member and students.

TWC 494 Special Topics
Strategic Med and Health Comm
Covers topics of immediate or special interest to a faculty member and students.

TWC 494 Special Topics
Project Management in Tech Comm
Covers topics of immediate or special interest to a faculty member and students.

TWC 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

TWC 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

TWC 501 Prin of Tech Communication

Basic information design principles to produce effective written, oral, and electronic technical communication. Understanding of rhetorical and audience analysis.
TWC 501 Fundamentals of Technical Comm

Basic information design principles for producing effective technical communication, including rhetorical and audience analysis, as well as common workplace genres and technical communication tools.

TWC 504 Applied Rhetoric and Tech Comm

Foundation in applied and technical communication. Covers the emergence and development of technical communication as a profession and field; rhetorical concepts and their application to technical and applied communication, ethical issues; and the impact of internationalization.

TWC 505 Research in Tech and Appl Comm

Explores the research process and methods appropriate for technical and professional communication. Provides a foundation for understanding the research process; designing and planning valid research within the context of technical and professional communication; collecting and interpreting information, ethical issues related to research; and reporting results.

TWC 506 Research Design & Development

Focuses on the research process, including the development of research questions, selection of appropriate methods, preparation of a literature review, and design of research projects. Prepares students to design the research for their applied project or thesis. Students apply their knowledge of research methods and the research process by preparing a fully developed proposal at the conclusion of the course.

TWC 511 Prin of Visual Communication

Basic principles of visual communication in print and electronic media. Understanding graphic and document design, including typography and color.
TWC 511 Prin of Visual Communication

Principles and tools of visual communication in print and electronic media, with an emphasis on document design, including typography and color.

TWC 514 Visualizing Information

Covers how to process data and information in ways that help discover what’s important about the information and what the clearest way is to communicate that information. Covers how to manage data and use a variety of software tools to communicate patterns and tell visual stories, as well as how to make choices in visualization style in ways that will assist an audience to effectively interact with and process the information.

TWC 514 Visualizing Data & Information

Covers how to process data and information in ways that help discover what's important about the information and what the clearest way is to communicate that information. Covers how to manage data and use a variety of software tools to communicate patterns and tell visual stories, as well as how to make choices in visualization style in ways that will assist an audience to effectively interact with and process the information.

TWC 521 Prin of Writing with Technology

Understanding historical and social impact of technology on writing, with emphasis on multimedia design, computer-mediated communication, and hypertext.

TWC 521 Principles of Web Authoring

Principles of writing for the Web, including information architecture, accessibility, usability and responsive design. Explores basics of markup language and content management.
TWC 522 Social Media in the Workplace

Analyzes different social media platforms and develops strategies and techniques for effective and appropriate use of social media in the workplace.

TWC 531 Principles of Tech Editing

Basic principles of technical editing for print and electronic media, including copyediting, reviews, standards, style, and project management.

TWC 531 Principles of Tech Editing

Principles and techniques of technical editing for print and electronic media, including standards, styles, copyediting, comprehensive editing and project management.

TWC 535 Global Issues in Tech Comm

Helps students understand issues that shape workplace communication in a global environment. Technical communicators are expected to be specialists who interact effectively with a broad range of audiences. Given the global nature of today’s workplace, those audiences typically include people from many cultures and countries. Through readings, written assignments, and analysis of case studies, documents and Websites, explores ways in which culture and language shape professional interactions. Also examines other critical issues such as translation, localization, technology and distributed work teams that impact writing and designing documents in a globalized work environment.
TWC 536 Project Mgmt in Tech Comm

Effective project management processes are central to technical communication in the workplace, and project management figures prominently in job descriptions for technical communicators at all levels. Introduces the literature, tools, and techniques of project management within technical communication. Focuses on learning effective project management best practices during the life-cycle of technical communication projects, which may include documentation or training projects. Uses case studies and Web pages, group discussion, presentations, and individual and team projects to aid in understanding and application of project management for technical communication.

TWC 543 Proposal Writing

Develops persuasive strategies and themes for researching and writing professional proposals.

TWC 543 Grant & Proposal Writing

Develops persuasive strategies and approaches for researching and writing professional funding proposals and grant applications.

TWC 544 Manual & Instructional Writing

Design and development of a user manual, writing instructions, improving graphics and page design, and usability testing.

TWC 544 User Experience

Explores principles, techniques and tools of user experience (UX), including user and task analysis, user-centered design and usability testing.

TWC 545 Computer Documentation

Introduces writing documentation for the computer industry.
TWC 545 Content Mgmt & Topic-Bsd Autring

Explores concepts, techniques, strategies and technologies for authoring, managing and publishing re-usable content in online documentation, help files and other types of technical communication.

TWC 545 Content Strategy

Explores concepts, techniques, strategies and technologies for authoring, managing and publishing re-usable content in online documentation, help files and other types of technical communication.

TWC 546 Technical & Scientific Reports

Introduces strategies, formats, and techniques of presenting information to technical and scientific audiences.

TWC 546 Technical & Scientific Reports

Explores strategies and techniques for developing informational and analytical reports in a range of genres and for a variety of audiences in scientific and technical fields.

TWC 551 Copyright/Intell Prop/Elec Age

Explores issues related to copyright and intellectual property laws; emphasizes electronic environment.

TWC 552 Information in the Digital Age

Explores the creation, organization, dissemination, and use of information; the impact of technologies; and surrounding economic, legal, and social issues. Credit is allowed for only TWC 552 or 452.

TWC 552 Information in the Digital Age

Explores the creation, organization, dissemination, and use of information; the impact of technologies; and surrounding economic, legal, and social issues.
TWC 553 Info/Comm Tech/Amer History

Explores the historical development of information and related technologies in the United States from colonial times to the present. Credit is allowed for only TWC 553 or 453.

TWC 554 Information Tech and Culture

Explores the historical impact and intersection of communications technology and culture in America.

TWC 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

TWC 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

TWC 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.
TWC 596 Capstone

Synthesizes and applies the concepts, skills, strategies and techniques learned in courses completed for the program. Also reflects upon that work, analyzing their strengths as a technical communicator and identifying areas for growth. Demonstrates ability to respond to the needs of specific audiences and communication situations by selecting from their work to craft a substantive professional dossier that presents a compelling story of their technical communication abilities, along with a reflective statement that discusses their work in relation to program outcomes.

TWC 598 Special Topics
Medical Rhetoric
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Information Representation
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Visualizing Information
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Social Media in the Workplace
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
TWC 598 Special Topics
Global Issues in Technical Comm
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Writing for Educators
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Strategic Business Communication
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Strategic Med and Health Comm
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TWC 598 Special Topics
Intro to Teaching Tech Comm
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
TWC 598 Special Topics
Project Management in Tech Com
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TWC 598 Special Topics
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TWC 599 Thesis
Supervised research focused on preparation of thesis,
including literature review, research, data collection and
analysis, and writing.

WAC 101 Intro to Academic Writing
Combines classroom and supplemental instruction to teach
academic genres of writing, including definition, summary, and
analysis.

CEE 581 Adv Earth Systems Engr&Mgmt
Advanced introduction to earth systems engineering and
management, and the technological, economic and cultural
systems underlying the terraformed Earth.

CEE 582 Industr Ecol & Design for Sust
The conceptual, ethical, and practical challenges in the
design, manufacture, and life cycle performance of products;
environmental evaluation via materials flow analysis and life
cycle assessment; global economic, environmental, cultural,
and social aspects of competitive and functional product
development and manufacture.
CEE 593 Applied Project
Applied Projects
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

CEE 598 Special Topics
Sustainable Energy Technologie
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CEE 598 Special Topics
Sustainable Engineering Ethics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CEE 598 Special Topics
Fund Sust Energy Systems
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CEE 598 Special Topics
Con Industry Best Practices
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CEE 598 Special Topics
Fund of Sustainable Infrastruc
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
CEE 598 Special Topics
Managing Energy Efficiency
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 494 Special Topics
Information Measurement Thry I
Covers topics of immediate or special interest to a faculty
member and students.

CON 494 Special Topics
Facilities Project Management
Covers topics of immediate or special interest to a faculty
member and students.

CON 501 Construction Research Methods
Data collection methodologies, applied parametric and
nonparametric statistics, data analysis techniques, technical
writing, and data presentation.

CON 540 Construction Productivity
Productivity concepts. Data collection. Analysis of productivity
data and factors affecting productivity. Means for improving
production and study of productivity improvement programs.

CON 557 Prin of Lead for Proj Mngrs
Individual, organizational and process/structure leadership in
project setting. Four-step leadership transformational model
for project leaders. Project leadership tools and applications to
motivation, conflict management, team building and delegation
of risk.

CON 565 Info Measurement Theory I
Simplistic, logical explanations of construction and other
industries. State-of-the-art supply chain, profit maximizing, and
efficient practices.
CON 565 Ded Logic, Lead and Ind Struc

Simple, logical explanations of construction and other industries. State-of-the-art supply chain, profit maximizing, and efficient practices.

CON 567 Advanced Procurement Systems

Development of multicriteria decision procurement model for selecting the performing contractor.

CON 570 Intro to Adv Tech Facilities

Introduces advanced technology facilities such as cleanrooms, data centers, research labs, and hospitals. The constructor’s viewpoint, including: planning, structures, mechanical, and tool installation. Site visits.

CON 589 Construction Co Financ Control

Financial accounting and cost control at the company level in construction companies. Accounting systems. Construction project profit calculations. Financial analysis.

CON 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

CON 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.
CON 598 Special Topics
Prin Lead and Mgmt
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Public Works Capital Construct
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Front End Planning
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Facility Ops and Maintenance
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Facilities Project Management
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Operations and Maintenance
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
CON 598 Special Topics
Facility Mgt Bld Energy Mgt
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CON 598 Special Topics
Info Measurement Theory II
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CON 598 Special Topics
Sustainability in Construction
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CON 598 Special Topics
Sustainable Construction
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CON 598 Special Topics
Sust Bio-based Construction
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CON 598 Special Topics
Con Industry Best Practices
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
CON 598 Special Topics
Safety Leadership
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
SCM in Construction
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Retrofit Construction
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
PMI: Proj Mgmt Methodologies I
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CON 598 Special Topics
Facty Mgt Fin and Comm
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
CON 598 Special Topics
FM Real Estate & Property
Topical courses not offered in regular course rotation--e.g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.

CON 599 Thesis

Supervised research focused on preparation of thesis, including
literature review, research, data collection and analysis, and
writing.

CSE 100 Prin of Programming with C++

Principles of problem solving using C++, algorithm design,
structured programming, fundamental algorithms and techniques,
and computer systems concepts. Social and ethical responsibility.

CSE 110 Prin of Programming with Java

Concepts of problem solving using Java, algorithm design,
structured programming, fundamental algorithms and techniques,
and computer systems concepts. Social and ethical responsibility.

CSE 110 Principles of Programming

Concepts of problem solving using an object-oriented
programming language, algorithm design, structured
programming, fundamental algorithms and techniques.

CSE 180 Computer Literacy

Students gain fluency in integrating technology to efficiently and
effectively solve problems using computational thinking.

CSE 205 Object-Oriented Program & Data

Problem solving by programming with an object-oriented
programming language. Introduces data structures. Overview of
computer science topics.
CSE 230 Computer Org/Assemb Lang Prog


CSE 240 Intro to Programming Languages

Introduces the procedural (C/C++/Python), applicative (LISP/Scheme) and declarative (Prolog) languages.

CSE 240 Intro to Programming Languages

Introduces the procedural, object-oriented, functional and declarative languages.

CSE 511 Data Processing at Scale

Delves into new frameworks for generating, processing and managing large-scale data-sets. More specifically, covers the following topics: core database concepts, distributed and parallel data systems, deploying and operating data systems in the cloud, NoSQL database systems, and big data tools.

CSE 531 Distrib/Multiprocess Oper Sys

Distributed systems architecture, remote file access, message-based systems, object-based systems, client/server paradigms, distributed algorithms, replication and consistency, and multiprocessor operating systems.

CSE 539 Applied Cryptography

Uses cryptography for secure protocols over networked systems, including signatures, certificates, timestamps, electrons, digital cash, and other multiparty coordination.
CSE 543 Info Assurance & Security

Comprehensive understanding of information assurance and security problems with the solutions as well as hands-on experiences about applying these solutions.

CSE 545 Software Security

Theories and tools for software security, including secure design, threat analysis and modeling, security testing and coding.

CSE 548 Adv Computer Network Security

Comprehensive understanding of network security and corresponding solutions, including cryptography, access control, secure Web transactions, e-mail security, and viruses.

CSE 551 Foundations of Algorithms

Advanced topics in formal algorithm design and analysis, including advanced shortest-paths algorithms, amortized analysis, network flows, NP-completeness and selected topics in computational geometry, distributed/parallel, randomized, and approximation algorithms.

CSE 561 Modeling/Simulation Theory/App

Modeling theories, simulation protocols, object-oriented modeling, model design, simulation analysis, network-based systems, discrete-event modeling, continuous modeling, hybrid modeling.

CSE 564 Software Design

Examines software design issues and techniques. Includes a survey of design representations and a comparison of design methods.

CSE 565 Software Verif/Validation/Test

Test planning, requirements-based and code-based testing techniques, tools, reliability models, and statistical testing.
CSE 566 Software Proj/Process/Qual Mgt

Project management, risk management, configuration management, quality management, and simulated project management experiences.

CSE 571 Artificial Intelligence

Definitions of intelligence, computer problem solving, game playing, pattern recognition, theorem proving, and semantic information processing; evolutionary systems; heuristic programming.

CSE 572 Data Mining

Advanced data mining techniques: classification, clustering, association, preprocessing; performance evaluation; information assurance, Web mining, security and privacy issues, and other applications. Students must have a solid background in database management systems, search, learning, and statistics to be successful in this course.

CSE 575 Statistical Machine Learning

Spectral clustering, regression, classification, semi-supervised learning, feature reduction, manifold learning, ranking, kernel learning and multitask learning.

CSE 578 Data Visualization

Amidst the information flood in which we are currently immersed, visualizations can be a well-placed treetop. The rise of big data has the potential to inform decisions, and visual representations can play a crucial intermediate role in our daily information consumption. Covers techniques and algorithms for creating effective visualizations based on principles from graphic design, visual art, perceptual psychology and cognitive science to enhance the understanding of complex data.
CSE 579 Knowledge Representation

Covers knowledge representation and reasoning algorithms in artificial intelligence, shows how they can be used in practice, and provides an overview of current research trends.

CSE 591 Seminar
Advanced Hardware Sys Design
A small class emphasizing discussion, presentations by students, and written research papers.

CSE 591 Seminar
Software Principles
A small class emphasizing discussion, presentations by students, and written research papers.

CSE 591 Seminar
Software Engr Princ & Concepts
A small class emphasizing discussion, presentations by students, and written research papers.

CSE 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

CSE 598 Special Topics
Serv-Oriented Comp & Info Mgmt
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Software Integration and Eng
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
CSE 598 Special Topics
Embedded Systems Programming
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Design & Analysis of Algorithms
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Software Analysis and Design
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Web Usability: Principles and Technology
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Hardware Design & Verification Languages
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Engineering Blockchain Applications
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
CSE 598 Special Topics
Intro to Learning & Visual Com
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Adv Software Analysis&Design
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Software Integration & Engr
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSE 598 Special Topics
Distributed Softwar Developmnt
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CST 100 Object-Oriented Software Dev

Introduces problem solving with a state-of-the-art programming language. Expressions, statements, basic control flow and methods. Data, data aggregation and usage. Uses a structured personal software development process to implement solutions representative of common computing applications. Uses development kits for some course activities.
CST 200 Core Data Strs w/OOP

Design, implementation and use of core data structures; object-oriented software development: design, analysis and programming.

CST 250 Microcomputer Arch/Programming

Microcomputer architecture, instruction set, assembly language programming and debugging, I/O considerations, memory interface, peripherals and busses, exception/interrupt handling.

CST 315 Software Enterprise I: Tools/P

Introduces tools and techniques used in software enterprise/development, including coding, design, testing, configuration management, and personal process management.

CST 316 Software Enterprise II: Constr

Best practices in software construction in the context of a team project, including refactoring, defensive programming, unit testing, and configuration and release management.

CST 383 Shell and Script Program/UNIX

UNIX operating system programming of shells, environment and 4th-generation languages and tools, such as sed, awk, perl, grep, make.

EEE 120 Digital Design Fundamentals

Number systems, conversion methods, binary and complement arithmetic, Boolean algebra, circuit minimization, ROMs, PLAs, flipflops, synchronous sequential circuits.

EEE 202 Circuits I

Principles for analyzing linear and nonlinear circuits. Uses SPICE and MATLAB. Design and measurement of linear analog electrical systems.
EEE 203 Signals and Systems I

Introduces continuous and discrete time signal and system analysis, linear systems, Fourier, and z-transforms.

EEE 230 Computr Org/Assembly Lang Prog


EEE 230 Computer Org/Assemb Lang Prog


EEE 241 Fundamentals Electromagnetics

Vector analysis, differential operators, fourier analysis, scalar, vector fields, electro/magneto statics, time-varying fields, boundary value problems, dielectric, magnetic materials, Maxwell's equations.

EEE 241 Fundamentals Electromagnetics

Vector analysis, differential operators, fourier analysis, scalar, vector fields, electro/magneto statics, time-varying fields, boundary value problems, dielectric, magnetic materials, Maxwell's equations.

EEE 304 Signals and Systems II

Communication, signal processing, control systems, continuous, discrete transforms, sampling theorem, analog, digital modulation, filter design, signal processing applications, state space.

EEE 333 Hardwre Design Lang/Prog Logic

Develops digital logic with modern practices of hardware description languages. Emphasizes usage, synthesis of digital systems for programmable logic, VLSI.
EEE 334 Circuits II


EEE 335 Analog and Digital Circuits

Analog, digital microelectronic circuits and systems. Amplifiers, frequency response, gate sizing, timing analysis, sequential digital circuits.

EEE 341 Engineering Electromagnetics

Time-varying electromagnetic fields, waves in homogeneous and stratified media, transmission lines, waveguides and cavity resonators, radiation and antennas.

EEE 350 Random Signal Analysis

Probabilistic and statistical analysis as applied to electrical signals and systems.

EEE 352 Properties Electronic Material

Schrodinger’s wave equation, potential barrier problems, bonds of crystals, the band theory of solids, semiconductors, superconductor dielectric, and magnetic properties.

EEE 360 Energy Sys/Power Electronics

Conventional and alternate energy sources for power systems, three-phase analysis, AC generators, transformers, induction, DC motors, power electronic speed control.

EEE 407 Digital Signal Processing

Time and frequency domain analysis, difference equations, z-transform, FIR and IIR digital filter design, discrete Fourier transform, FFT, and random sequences.
EEE 425 Digital Systems and Circuits

Digital logic gate analysis and design. Propagation delay times, fan out, power dissipation, noise margins. Design of MOS and bipolar logic families, including NMOS, CMOS, standard and advanced TTL, ECL, and BiCMOS. Inverter, combinational and sequential logic circuit design, MOS memories, VLSI circuits. Computer simulations using PSPICE.

EEE 433 Analog Integrated Circuits

Analysis, design, and applications of modern analog circuits using integrated bipolar and field-effect transistor technologies.

EEE 434 Quantum Mechanics Engineers

Angular momentum, wave packets, Schrödinger wave equation, probability, problems in one dimension, principles of wave mechanics, scattering, tunneling, central forces, angular momentum, hydrogen atom, perturbation theory, variational techniques.

EEE 435 Fundamentals of CMOS & MEMS

Introduces basic CMOS processing and fabrication tools. Covers the fundamentals of thermal oxidation, CVD, implantation, diffusion, and process integration.

EEE 436 Fund of Solid-State Devices

Semiconductor fundamentals, pn junctions, metal-semiconductor contacts, metal-oxide-semiconductor capacitors and field-effect transistors, bipolar junction transistors.

EEE 439 Semiconduct Facil/Cleanrm Prac

Microcontamination, controlled environments, cleanroom layout and systems, modeling, codes and legislation, ultrapure water, production materials, personnel and operations, hazard management, advanced concepts.
EEE 445 Microwaves

Waveguides; circuit theory for waveguiding systems; microwave devices, systems, and energy sources; striplines and microstrips; impedance matching transformers; measurements.

EEE 448 Fiber Optics

Principles of fiber-optic communications.

EEE 459 Communication Networks


EEE 460 Nuclear Power Engineering


EEE 463 Electrical Power Plants

Generation of electric power using fossil, nuclear, and renewable, including solar, geothermal, wind, hydroelectric, biomass and ocean, energy sources. Power plant thermal cycle analysis. Cogeneration and combined cycles. Economics, operations, and design of electric power stations. Energy storage.
EEE 465 Photovoltaic Energy Conversion


EEE 470 Electric Power Devices

Analyzes devices used for short circuit protection, including circuit breakers, relays, and current and voltage transducers. Protection against switching and lightning over voltages. Insulation coordination.

EEE 471 Power System Analysis

Review of transmission line parameter calculation. Zero sequence impedance, symmetrical components for fault analysis, short circuit calculation, review of power flow analysis, power system stability, and power system control concepts.

EEE 472 Power Electronics & Power Mgmt

Principles of switch mode power conversion, analysis, design and control of dc-dc converters, PWM rectifiers and inverters, power management, power electronics applications in information technology, renewable energy systems, motion control and lighting.

EEE 480 Feedback Systems

Analysis and design of linear feedback systems. Frequency response and root locus techniques, series compensation, and state variable feedback.
EEE 481 Computer-Controlled Systems

Implements computer-based, embedded, control systems using MATLAB xPC Target toolbox. Small-scale, representative projects demonstrate theoretical issues and provide hands-on expertise.

EEE 488 Senior Design Laboratory I

Design process: research, concept, feasibility, simulation, specifications, benchmarking, and proposal generation. Technical communications and team skills enrichment.

EEE 489 Senior Design Laboratory II

Implement, evaluate, and document EEE 488 design. Social, economic, and safety considerations. Technical communications and team skills enrichment.

EEE 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

EEE 505 Time-Frequency Signal Process

Joint time-frequency analysis of time-varying signals and systems; linear and quadratic time-frequency representations; applications in current areas of signal processing.
EEE 509 DSP Algorithms & Software

Linear systems review, digital filter design, software aspects, DFT, FFT, random signals, programming aspects, applications projects, MATLAB and Java simulations.

EEE 511 Artificial Neural Computation

Networks for computation, learning function representations from data, learning algorithms and analysis, function approximation and information representation by networks, applications in control systems and signal analysis.

EEE 523 Adv Analog Integrated Circuits

Analysis and design of analog integrated circuits: analog circuit blocks, reference circuits, operational-amplifier circuits, feedback, and nonlinear circuits.

EEE 525 VLSI Design

Analysis and design of Very Large Scale Integrated (VLSI) circuits. Physics of small devices, fabrication, regular structures, and system timing.

EEE 527 Analog to Digital Converters

Detailed introduction to the design of Nyquist rate, CMOS analog to digital converters. Knowledge of analog integrated circuits (analog circuit blocks, reference circuits, operational-amplifier circuits, feedback, and nonlinear circuits) required to be successful in this course.
EEE 530 Advanced Silicon Processing

Thin films, CVD, oxidation, diffusion, ion-implantation for VLSI, metallization, silicides, advanced lithography, dry etching, rapid thermal processing.

EEE 531 Semiconductor Device Theory I

Transport and recombination theory, pn and Schottky barrier diodes, bipolar and junction field-effect transistors, and MOS capacitors and transistors.

EEE 533 Semiconductor Process/Device Sim

Process simulation concepts, oxidation, ion implantation, diffusion, device simulation concepts, pn junctions, MOS devices, bipolar transistors.

EEE 536 Semiconductor Characterization

Measurement techniques for semiconductor materials and devices. Electrical, optical, physical, and chemical characterization methods.

EEE 537 Semiconductor Optoelectronics

Electronic states in semiconductors, quantum theory of radiation, absorption processes, radiative processes, nonradiative processes, photoluminescence, and photonic devices.

EEE 540 Fast Comput Electromagnetics

Method of moments, finite difference time-domain, finite element methods implemented using fast algorithms (wavelets, FMM, Nystrom) to gain high efficiency.
EEE 541 Electromag Fields/Guided Waves

Polarization and magnetization; dielectric, conducting, anisotropic, and semiconducting media; duality, uniqueness, and image theory; plane wave functions, waveguides, resonators, and surface guided waves.

EEE 543 Antenna Analysis and Design

Impedances, broadband antennas, frequency independent antennas, miniaturization, aperture antennas, horns, reflectors, lens antennas, and continuous sources design techniques.

EEE 545 Microwave Circuit Design

Analysis and design of microwave attenuators, in-phase and quadrature-phase power dividers, magic tees, directional couplers, phase shifters, DC blocks, and equalizers.

EEE 547 Microwave SS Circuit Design I

Applies semiconductor characteristics to practical design of microwave mixers, detectors, limiters, switches, attenuators, multipliers, phase shifters, and amplifiers.

EEE 548 Coherent Optics

Diffraction, lenses, optical processing, holography, electro-optics, and lasers.

EEE 554 Random Signal Theory

Applies statistical techniques to the representation and analysis of electrical signals and to communications systems analysis.
EEE 559 Wireless Networks

Design principles of cellular networks. Multiple access control protocols for wireless systems. Wireless routing and TCP/IP. Mobile management. Call admission control and resource allocation (e.g., power control and rate control). Wireless security. Future-generation wireless networks. A previous course in random signal theory is required to be successful in this class.

EEE 562 Nuclear Reactor Theory & Design


EEE 571 Power System Transients


EEE 572 Advanced Power Electronics

Analyzes device operation, including thyristors, gate-turn-off thyristors, and transistors. Design of rectifier and inverter circuits. Applications such as variable speed drives, HVDC, motor control, and uninterruptable power supplies.

EEE 573 Electric Power Quality

Sinusoidal waveshape maintenance; study of momentary events, power system harmonics, instrumentation, filters, power conditioners, and other power quality enhancement methods.
EEE 574 Computer Solution of Power Sys


EEE 576 Power System Dynamics

Dynamic performance of power systems with emphasis on control. Modeling of control equipment, FACTS devices, wind generators, and nonlinear loads. Design of power system stabilizers. Prior knowledge of electric power devices, power system analysis, and electrical machinery is required to be successful in this course.

EEE 577 Power Engr Operations/Planning

Economic dispatch, unit commitment, dynamic programming, power system planning and operation, control, generation modeling, AGC, and power production.

EEE 579 Power Transmission/Distribtn

High-voltage transmission line electric design; conductors, corona, RI and TV noise, insulators, clearances. DC characteristic, feeders voltage drop, and capacitors.

EEE 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

EEE 591 Seminar

Electrcl Machinery
A small class emphasizing discussion, presentations by students, and written research papers.
EEE 591 Seminar
Communictn Netwrk
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Health Physics Principles/Rad
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Communication Sys
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Quantum Mechanics
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Realtime DSP
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Photovoltaic Energy Conversion
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Microwaves
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Fiber Optics
A small class emphasizing discussion, presentations by students, and written research papers.
EEE 591 Seminar
Elec Power Devices
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Fundamentals of CMOS & MEMS
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Semicond Fac/Cleanroom
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Power Electronics & Power Mgmt
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Analog Integr Circ
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Anten Wirless Comm
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Nuclear Power Engineering
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Power Systems Analysis
A small class emphasizing discussion, presentations by students, and written research papers.
EEE 591 Seminar
Feedback Systems
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Communicatn Netwrk
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Quantum Mechanics for Engnrs
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Digital Systems Circ
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Digital Signal Process
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Fund Solid State Devices
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Elec Power Plant
A small class emphasizing discussion, presentations by students, and written research papers.

EEE 591 Seminar
Computer Control Systems
A small class emphasizing discussion, presentations by students, and written research papers.
EEE 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

EEE 598 Special Topics
Overview Elec Eng
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 598 Special Topics
Pwr Sys Stability
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 598 Special Topics
Power System Dynamics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 598 Special Topics
Adv Linear Alg & Optimization
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
EEE 598 Special Topics
Demand Rspnse & Rnwbles Intgrn
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EEE 598 Special Topics
Serial Links
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EEE 598 Special Topics
Remote Sensing & Adaptv Radar
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EEE 598 Special Topics
Structrl VLSI Circ Dsgn on Sym
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EEE 598 Special Topics
Nuclear Safety Secrty & Sfgrds
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EEE 598 Special Topics
Fuel Cycle, Waste/Life Mngmnt
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
EEE 598 Special Topics
Intro Elec & Autonomous Vehcls
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 598 Special Topics
Switch Cap Anlg Ds
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 598 Special Topics
Renewable Electric Energy Syst
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 598 Special Topics
VLSI Modulation Circuits
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EEE 599 Thesis
Supervised research focused on preparation of thesis, including literature review, research, data collection and analysis, and writing.

EEE 606 Adaptive Signal Processing
Principles and applications of adaptive signal processing, adaptive linear combiner, Wiener least-squares solution, gradient search, performance surfaces, LMS/RLS algorithms, block time/frequency domain LMS.
EEE 627 Oversampling Sigma-Delta Data

Introduces design and analysis of sigma delta oversampled data converters from an IC design perspective.

EEE 641 Adv Electromagnet Field Theory

Cylindrical wave functions, waveguides, and resonators; spherical wave functions and resonators; scattering from planar, cylindrical, and spherical surfaces; Green's functions.

EEE 680 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

EEE 690 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

EEE 790 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

EGR 104 Crit Inquiry in Engineering

Critical thinking. Systematic evaluation of information as input to well-informed decision making. Close reading and substantive writing in a technical setting.
EGR 280 Engineering Statistics

Applications-oriented introduction to statistics with computer-based experience using statistical software for formulating and solving engineering problems.

EGR 494 Special Topics
Grid Modernization I
Covers topics of immediate or special interest to a faculty member and students.

EGR 494 Special Topics
Micro-Grid Planning & Testing
Covers topics of immediate or special interest to a faculty member and students.

EGR 494 Special Topics
Elec Grid Simulation and Op
Covers topics of immediate or special interest to a faculty member and students.

EGR 598 Special Topics
Elec Grid Simulation and Op
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FSE 100 Introduction to Engineering

Introduces the engineering design process; working in engineering teams; the profession of engineering; engineering models, written and oral technical communication skills.

FSE 201 Engineering Undergraduate TA

Theory and rationale of active learning and teaching strategies that stimulate intellectual development. Leadership, teaching, teamwork and communication skills needed to facilitate effective undergraduate learning in engineering. Implementation of these skills in a classroom setting.
FSE 294 Special Topics
Engr UG Teaching Assistant
Covers topics of immediate or special interest to a faculty member and students.

FSE 301 Entrepreneurship for Engineers
Overview of entrepreneurship, with emphasis on principles suitable for undergraduate engineering students.

FSE 301 Entrepreneur & Value Creation
In-depth application of entrepreneurial concepts including opportunity recognition, value creation and new business management. Identifies the needs of a market and problem solves to meet those needs through innovation. Covers common mistakes made in the new venture process and how to work to avoid these mistakes.

FSE 310 Transfer Success in FSE
Introduces the unique elements, culture, challenges and opportunities at ASU and within the Ira A. Fulton Schools of Engineering. Helps students succeed as engineering students and ultimately as engineers.

FSE 494 Special Topics
Sust Energy Solutions Islands
Covers topics of immediate or special interest to a faculty member and students.

FSE 494 Special Topics
EPICS Gold: EPICS in Action
Covers topics of immediate or special interest to a faculty member and students.

FSE 494 Special Topics
Venture Devils
Covers topics of immediate or special interest to a faculty member and students.
FSE 501 Technology Entrepreneurship

Fundamental principles and concepts of technology entrepreneurship.

FSE 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

GIT 135 Graphic Communications

Technologies and processes involved in the design, image generation, transmission, and industrial production of graphic information.

GIT 210 Creative Thinking and Dsgn Viz

Fundamental methods, concepts, and techniques of creative thinking, design visualization, and problem solving, including communication and societal influences.

GIT 211 Intro to Video Game Art

2D and 3D art assets for video games. Areas covered: classic pixel art, seamless texturing and tiling, sprite animation, 3D virtual studio, box modeling.

GIT 215 Introduction to Web Authoring

Graphic user interface planning and evaluation using industry-standard languages; graphics, color layout and file format considerations.

GIT 230 Digital Illustration in Publis

Raster and vector illustration in publishing.
GIT 237 Web Content Design

User-centered design principles for visual content on the World Wide Web with emphasis on usability, page architecture, search engine optimization, coding, scripting and interactivity.

GIT 250 Intro to Commercial Print

Provides an overview of current print technology, a basic understanding of the print process and current workflows.

GIT 303 Digital Publishing

Web and print publication design and production using industry-standard composition software, proofing, and output devices.

GIT 310 Web Foundations

7.5-week course covers fundamental methods, concepts and techniques of semantic and validated Web development as well as aesthetic Web design. Includes Photoshop, HTML5 and CSS technologies.

GIT 312 3-D Computer Graphics Modeling

3-D modeling applications: modeling for video games, mapping techniques, texturing, box modeling, geometric representation, strategies and assemblies.

GIT 314 MM Dsgn, Plan and Stybd

The creative process of generating ideas, conceptualizing projects, planning, designing, story boarding, and presenting interactive multimedia products.
GIT 315 Digital Video Techniques

Covers video production, including planning, pre-production, production, post-production and online video technologies and how video is an integral part of the graphic information industry. Concentrates on commercial and client-driven video production.

GIT 333 Printing Technology


GIT 334 Image Editing and Manipulation

Theory and application of advanced image editing and raster techniques for reproduction and dissemination.

GIT 335 Computer Systems Technology

Computer technology: hardware, software, storage, networking, Internet, telecommunications, and information systems. Requires independent research.

GIT 337 Web Content Design

User-centered design principles for visual content on the World Wide Web with emphasis on content strategy, user experience, coding, scripting and interactivity.
GIT 340 InfoDesign/Usability

Design and technology solutions for increasing Website usability and methods of organizing information to improve the user experience.

GIT 384 Commercial Photography

Digital image capture, and output in a commercial studio emphasizing publishing workflow.

GIT 394 Special Topics
Web Foundations
Covers topics of immediate or special interest to a faculty member and students.

GIT 402 New Media Internet Tech

Project-based exploration of new media Internet technologies from a graphic technology prospective. Emphasizes how, why, and when new media can be used to enhance a Web site and the user’s experience.

GIT 411 Computer Animation

3-D computer animation methods: rigging for video games, principles of animation, loops, skinning, blending, advanced modeling and motion.

GIT 413 Prof Port Dsgn and Pres

Digital media portfolio design and production: planning, audience analysis, media selection, authoring, media formats, production, copyright considerations, marketing, and delivery. Requires capstone group project.

GIT 414 Web Site Design/Internet/Web

Web site design, authoring, standards, protocols, tools, and development techniques for commercial client-sided Web-based graphic information systems.
GIT 417 Adv Web Markup and Scripting

Industry-standard programming languages and techniques to create interactive graphic information Web sites and applications.

GIT 418 Multimedia Author/Script/Prod

Production of multimedia projects using industry-standard authoring applications: client considerations and project documentation; user interface design, interactivity, media, and databases.

GIT 432 Graphic Industry Business Prac

Business practices related to press/prepress/Web industries; trade customs, cost analysis, marketing and management approaches.

GIT 432 Graphic Industry Business Prac

Business practices related to the graphics industry; business models, cost analysis, marketing and management approaches.

GIT 435 Website and E-Commerce Strat

Internet Web site management, security, marketing, and e-commerce business models.

GIT 437 Color Reproduction Systems

Scientific analysis for the engineering of color reproduction systems and color models used in the graphics industry.

GIT 450 Digital Workflow/Graphic Indus

Digital production system analysis for content creation, automation output of graphic information to print and Web, including networking and job tracking.
GIT 480 Senior Project

Capstone project experience refining skills in communication, research and information retrieval, critical analysis and criticism, and demonstrating technical competence in each student's area of study.

GIT 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GIT 494 Special Topics
Information Design & Usability
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
Web Content Management
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
Paris Photo, Arch, City Lights
Covers topics of immediate or special interest to a faculty member and students.

GIT 494 Special Topics
Cross-Media Design Solutions
Covers topics of immediate or special interest to a faculty member and students.
GIT 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

GIT 499 Individualized Instruction
SolarSpell Web Design

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

GIT 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

GIT 500 Research Methods

Course on research methods in a specific discipline.
GIT 502 New Media Int Tech

Project-based exploration of new media Internet technologies from a graphic information technology prospective. Emphasizes how, why and when new media can be used to enhance a Web site and the user's experience while maintaining branding cohesively across all technologies.

GIT 515 WebDesignTech

Standards, tools and techniques for creating websites, with emphasis on designing for multiple devices and systems.

GIT 519 AdvScriptWeb

Uses industry-standard markup and scripting languages to develop interactive websites and applications.

GIT 537 Cross Media Production

Directed group study of selected current issues relating to cross-media production for the graphic information industries. Requires graduate group leadership.

GIT 540 Cross-Media Design Solutions

Universal design theory, creative problem solving, and case study applications for print, Web, and new media products of the graphics industry.

GIT 542 Information Design & Usability

Design and technology solutions focusing on how information is organized graphically to communicate and how website usability is employed to improve human interaction with inline information.
GIT 542 Usability/User Experience

Design and technology solutions focusing on how information is organized graphically to communicate and how website usability is employed to improve human interaction with inline information.

GIT 573 Color Metrology

In-depth study and analysis of systems used to manage color reproduction in the graphic arts industry and information technology.

GIT 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GIT 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

GIT 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

GIT 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.
GIT 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

GIT 598 Special Topics
Web Content Management
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
EcoCAR3 Comm, Mrkt & Outreach
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Multimed Auth, Script & Prd
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Web Fundamentals
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GIT 598 Special Topics
Web Management & E-commerce
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Paris Photo, Arch, City Lights
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Inter Design, Planning & Impl
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Graphic Indus Business Prac
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Digital Workflow Graph Indstr
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GIT 598 Special Topics
Website & E-Commerce Strat
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
HSE 101 Human Systems Engineering

Introduces basic principles, methods and theories of psychology and applications to engineering problems relevant to human systems. Gives particular attention to the intersection of psychology and engineering. Students learn brain anatomy and physiology, sensation and perception, cognition, social systems and research methods so that they are able to design systems consistent with human capabilities and limitations.

HSE 230 Stats Human Systems Rsrch I

Basic methods of exploratory data analysis (including graphics) and statistical computing methods, including a detailed look at hypothesis testing, effect size and power analysis, as well as some methods for dealing with categorical and discrete data. Introduces both correlation/regression and analysis of variance (ANOVA), as well as common statistical software.

HSE 290 Exp Method Human Systems Rsrch

Introduces the basics of research methodology as applied in human systems engineering. Quantitative and experimental design from an applied perspective. Guided study of the process of conducting research within human systems engineering. Project topics range from research question generation and literature review to reporting of results.

HSE 324 Applied Cognitive Science

Human cognition and how it bears on the design of technological and social systems. Although focuses on applications, requires student to delve into the basic literature that informs these applications and produce a literature review that draws on both applied and theoretical work. Many weeks involve a hands-on experience with a method or technique, and weekly quizzes emphasize critical thinking about these examples.
HSE 325 Human-Computer Interaction

Theories, methods, and findings concerning the usability of computer systems and the design of effective user interfaces.

IEE 300 Economic Analys for Engineers

Economic evaluation of alternatives for engineering decisions, emphasizing the time value of money.

IEE 305 Information Systems Engr

Overview of computer and information systems applications. Topics include client/server; distributed computing; networks; process modeling; e-commerce; enterprise applications; Internet.

IEE 320 Extreme Excel

Today's workplace environment for engineers demands advanced skills in using worksheet applications such as Microsoft Excel. Course addresses this important gap in the curriculum to provide support for students who are in need of training on the various capabilities of the software. In particular, students become familiar with various functionalities that are critical for performing their jobs as engineers.

IEE 321 Ethics&Technical Communication

Methods and tools for preparing students for work in industry including ethics, technical writing and communications; understanding how learned undergraduate skills are used in the workplace and in engineering problem solving.

IEE 369 Work Analysis and Design

Planning, analysis, and design of methods of accomplishing work. Emphasizes human factors, work planning, methods analysis and design, and work measurement. Applications in diverse fields.
IEE 376 Oper Rsrch Det Tech/Apps

Industrial systems applications with deterministic operations research techniques. Resource allocation, product mix, production, transportation, task assignment, networks.

IEE 380 Prob & Stats Engr Prob Solving

Applications-oriented course with computer-based experience using statistical software for formulating and solving engineering problems. Fee.

IEE 380 Prob & Stats Engr Prob Solving

Applications-oriented course with computer-based experience using statistical software for formulating and solving engineering problems.

IEE 381 Lean Six Sigma Methodology

Define, measure, analyze, improve and control (DMAIC) steps of six sigma methodology for business and quality improvement. Reviews the necessary statistical tools and illustrates their integration into the problem-solving process. Overview of lean principles and design for six sigma. Unique features of applying six sigma and DMAIC in transactional and service organizations.

IEE 385 Engr Statistics - Probability

Conditional probability, common probability models, Goodness-of-fit tests and reliability models.

IEE 394 Special Topics
Extreme Excel
Covers topics of immediate or special interest to a faculty member and students.
IEE 412 Intro to Financial Engineering

Intensive exploration course of three phases: (1) a preparation phase for the terminology and financial lingo to be used throughout the semester, (2) introduction of more advanced financial topics such as portfolio formation, assessment and traditional portfolio theory, (3) several financial engineering topics such as the application of stochastic models to stock and derivatives pricing and financial risk management.

IEE 421 Urban Operations Research

Probabilistic modeling and analysis of transportation systems (car, bus, train) and emergency service systems (fire, police, ambulance) using functions of random variables, geometric probability, queueing theory, location theory, network analysis and graph applications.

IEE 431 Engineering Administration

Introduces quantitative and qualitative approaches to management functions, engineering administration, organizational analysis, decision making, and communication.

IEE 454 Risk Management

Methods and tools for identifying, assessing, mitigating and controlling risk in business and engineering design activities. Decision tools include cost-benefit analysis, decision trees, value of information, Bayesian statistical decision making, fault trees, and failure modes and effects analysis (FMEA).

IEE 456 Intro to Systems Engineering

Foundation course addressing the concepts needed for successful system planning, design and build process. Topics include successfully bringing large-scale systems to completion on schedule and on budget, modeling and cost estimating techniques, risk and variability.
IEE 458 Project Management

Life-cycle processes for selecting and managing large-scale projects to ensure successful completion. Topics include project phases, defining milestones, work breakdown structure, group decision making and teamwork, organizational structure, human resource management, technological and economic feasibility, configuration management, budget control, and resource allocation and scheduling. Use of modern tools for planning and controlling project performance.

IEE 461 Production Control

Techniques for the planning, control, and evaluation of production systems. Forecasting, inventory control, scheduling, enterprise requirements planning, supply chain design, and coordination.

IEE 470 Stochastic Operations Research

Modeling and analysis with emphasis on stochastic operations research. Models for stochastic processes, including Markov chains, queueing and decision analysis.

IEE 474 Quality Control

Basic statistical process control techniques, capability analysis, design of experiments, and acceptance sampling plans.

IEE 477 Syst Dyn & Thinking

Methods for the modeling and analysis of system dynamics; metrics to measure business performance; continuous simulation tools for evaluation of system performance over time.

IEE 485 Systems Design Capstone I

Senior capstone project provides students with the skills required to effectively complete a capstone project in design and development.
IEE 486 Systems Design Capstone II

Project in design and development. Individual or team capstone project in creative design and synthesis.

IEE 505 Information Systems Engr

Studies information systems application engineering. Topics include information technology, data modeling, data organization, process mapping, application and database engineering, and user interface development. fee

IEE 505 Information Systems Engr

Studies information systems application engineering. Topics include information technology, data modeling, data organization, process mapping, application and database engineering, and user interface development.

IEE 506 Web-Enabled Decn Support Systs

Development and analysis of Web-enabled applications for decision support. Topics include: (1) Web application development using ASP.NET; (2) design for computing scalability, interface usability and cyber security; and (3) use of application development skills and design concepts to develop a decision support system consisting of database, analytical data processing, expert knowledge and reasoning, and user-friendly interface for enabling transitions from data to information, knowledge and decisions. Knowledge of database development is necessary to be successful in this course.

IEE 512 Intro to Financial Engineering

Introductory course on financial engineering covering traditional portfolio theory, forwards, futures, financial stochastic models, option pricing, and risk management.
IEE 530 Enterprise Modeling

Focuses on social, economic, and technical models of the enterprise with emphasis on the management of technological resources. Includes organization, econometric, financial, and large-scale mathematical models.

IEE 534 Supply Chain Modeling/Analysis

Techniques for modeling and analysis of supply chains. Inventory management, transportation/location models, value of information, channel alignment, risk pooling, contracts.

IEE 534 Supply Chain Modeling&Analysis

Techniques for modeling and analysis of supply chains. Inventory management, transportation/location models, value of information, channel alignment, risk pooling, contracts. Requires knowledge of basic statistics and probability and some optimization.

IEE 541 Engineering Administration

Introduces quantitative and qualitative approaches to management functions, engineering administration, organizational analysis, decision making, and communication.

IEE 552 Strategic Technologic Planning

Studies concepts of strategy, strategy formulation process, and strategic planning methodologies with emphasis on engineering design and manufacturing strategy, complemented with case studies. Presents and uses an analytical executive planning decision support system throughout course.
IEE 556 Intro to Systems Engineering

Foundation course addressing the concepts needed for successful system planning, design and build process. Topics include successfully bringing large-scale systems to completion on schedule and on budget, modeling and cost estimating techniques, risk and variability. Graduate students are expected to have a background in and understanding of large-scale systems.

IEE 561 Production Systems

Understanding how factories operate, how performance is measured, and how operational changes impact performance metrics. Operational philosophies, increasing production efficiency through quantitative methods.

IEE 570 Advanced Quality Control

Process monitoring with control charts (Shewhart, cusum, EWMA), feedback adjustment and engineering process control, process capability, autocorrelation, selected topics from current literature.

IEE 572 Design Engineering Experiments

Analysis of variance and experimental design. Topics include strategy of experimentation, factorials, blocking and confounding, fractional factorials, response surfaces, nested and split-plot designs.

IEE 573 Reliability Engineering

Nature of reliability, time to failure densities, series/parallel/standby systems, complex system reliability, Bayesian reliability, and sequential reliability tests.

IEE 574 Appl Deterministic Oper Rsch

Develops advanced techniques in operations research for the solution of complex industrial systems problems. Goal programming, integer programming, heuristic methods, dynamic and nonlinear programming.
IEE 578 Regression Analysis

Regression model building oriented toward engineers and physical scientists. Topics include linear regression, diagnostics, biased and robust fitting, nonlinear regression.

IEE 579 Time Series Analy/forecasting

Forecasting time series by regression-based, exponential smoothing, and ARIMA model techniques; uses digital computer programs to augment the theory.

IEE 581 Six Sigma Methodology

The six sigma process improvement strategy of define, measure, analyze, improve, and control (DMAIC). Integrates and deploys statistical methods and other six sigma problem solving via the DMAIC framework. Requires background in design of experiments, statistical quality control, and regression analysis.
IEE 582 Response Surfaces/Process Opt

Classical response surface analysis and designs including steepest ascent, canonical analysis, and multiple responses. Other topics include process robustness studies, robust design, and mixture experiments.

IEE 585 Six Sigma Capstone.

The DMAIC (define, measure, analyze, improve, control) improvement strategy is applied in the formulation and execution of a six sigma project.

IEE 585 Six Sigma Capstone

The DMAIC (define, measure, analyze, improve, control) improvement strategy is applied in the formulation and execution of a six sigma project.

IEE 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

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IEE 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.
IEE 593 Applied Project
Systems Engineering Capstone
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IEE 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

IEE 598 Special Topics
Sustain Supply Network
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IEE 598 Special Topics
Analyzing Time-Dependent Data
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IEE 598 Special Topics
Intro Systems Engineering
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IEE 598 Special Topics
Design of Computational System
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
IEE 598 Special Topics
Math Tools
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IEE 598 Special Topics
Design for Six Sigma
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 100 Multimedia, Internet, and Web

Project-based introduction to the key concepts, tools and technologies underlying digital media, the Internet and the World Wide Web. Introduces media design and processing including various media such as text, audio, image and video. Web languages, architecture, components and tools; website design and creation.

IFT 100 Intro to Info Technology

Project-based introduction to the key concepts, tools and devices underlying today's technologies. Introduces computer hardware, software and system architecture, the Internet, the World Wide Web and information technology ethics. Forms a foundation for future courses offered in the Information Technology major and the information technology discipline.

IFT 101 Info Tech Programming Logic

Introduces basic analysis and synthesis procedures for an understanding of information system logical structures. Topics include: identifying organizational domains for potential automation, informational descriptions (scenarios) of those domains, and program structure and logical designs for potential problem/opportunity resolution. Uses graphical and textual models to express the logic and uses Python to implement the logic.
IFT 102 Intro to Java Technologies

Introduces Java as a platform for application development. Fundamental concepts of the Java language, including object-oriented programming and basics of the user interface programming.

IFT 194 Special Topics
Info Tech Programming Logic
Covers topics of immediate or special interest to a faculty member and students.

IFT 194 Special Topics
Intro to Java Technologies
Covers topics of immediate or special interest to a faculty member and students.

IFT 200 Info Model, Store & Retrieval

Notations, tools and languages for modeling, representing and manipulating information; database creation, access and management in the context of a controlling application. Analyzes information storage needs and design of an appropriate representation. Project-based access to information through tools and languages such as structured query language.

IFT 201 Comp & Network: Organ & Admin

Fundamentals of computer networks, computer organization and computer operating systems. Components, tools and languages for configuring and administering computer systems.

IFT 202 Fdn of Info and Comp Sys Secur

Project-based introduction to privacy, ethics, legal, social and professional responsibilities for information technology. Principles of information security and assurance and their implications on access. Tools and methods to identify intrusion, best security practices. Securing communications and applications.
IFT 220 Man Config & Active Dir

Technical overview/introduction of configuration management processes and techniques used in modern networks. Includes an introduction to managing software configurations and processes to support change control. Also delves into the use and structure of Windows Active Directory and how this network-based application helps manage the network configuration. Assumes no previous experience with configuration management or Active Directory.

IFT 250 Intro to UNIX Utilities

Technical overview (introduction) of the UNIX/Linux operating system. Emphasizes using the command line UNIX or Linux system. Covers fundamental UNIX commands and utilities including the use of a text editor and a mail handler, configuring a shell, the UNIX file system organization, pipes and filters, shell environment and simple shell scripts. Additional topics include UNIX GUIs and Windows Active Directory. Assumes no previous experience with the UNIX operating system.

IFT 259 Intro to Internet Networking

Introduces the OSI model and the protocol layers associated with information communication technology. Describes the role and purpose of each layer. Provides an overview of how the Internet is structured and used to support networking in a modern information technology structure.

IFT 259 Intro to Internet Networking

Introduces students to the networking field. Students learn network terminology, protocols and topologies. Students also learn network architectures of Local Area Networks (LAN), Wide Area Networks (WAN) and related media, connections and components. Covers other topics including the OSI model, router configuration/programming, wireless transmission, IP addressing, network management and network security.
IFT 301 Intro to Interactive Media

Human-computer interaction design for rich media systems. Introduces design processes, tools and principles for applications that are highly interactive with their users and which include multiple input/output modalities and multimedia. Project-driven course.

IFT 301 Web Programming for HCI

Human-computer interaction design for rich media systems. Design processes, tools and principles for applications that are highly interactive with their users and which include multiple input/output modalities and multimedia. Project-driven course. Key topics include wireframes and persona structures associated with HCI.

IFT 302 Fdn of Info and Comp Sys Secur

Introduces information technology (IT) security aspects and how technology can be vulnerable to unwanted intrusions. Project-based introduction to privacy, authentication and malware incursions for information technology. Principles of information security and assurance and their implications on access. Tools and methods to identify intrusion, best security practices. Includes securing communications and applications, including symmetric and asymmetric encryption and Hash functions.

IFT 333 Big Data Tools & Practices

Architecture of Hadoop clusters at both the hardware and system software levels. Applies Hadoop and related Big Data technologies such as MapReduce, Pig, Hive and Impala in developing analytics and solving the types of problems faced by enterprises today. Expects programming experience in Java or Python and a general understanding of databases, networking and distributed systems.
IFT 358 Network Info Comm Tech

Focuses on the physical layer and data-link layer of the OSI model. Concentrates on data communications, including signals, noise, modulation, demodulation and transmission media. Incorporates digital transmission, including pulse-coded modulation. Includes data-link protocols, network topologies and local-area networks involving access control, addressing at the network and subnetwork layer. Incorporates network layer protocols (IPv4 and IPv6), as well as Internet Control Messaging Protocols and configuration and domain name protocols.

IFT 358 Network Info Comm Tech

Focuses on the physical layer, data-link layer and network layer of the TCP/IP model. Concentrates on data communications, including signals, transmission impairments and digital transmissions. Students gain an understanding of the data link layer and its services/protocols, with attention on the network switch. Incorporates network layer protocols with focus on IPv6. Explores subnetting (classful and classless) in detail and also covers Variable Length Subnet Mask (VLSM).

IFT 359 Internet Networking Protocol

Computer networking for application, transmission control and network layers using the Internet protocols as a model; reliability and security.
IFT 360 Applications Artificial Intell

Artificial Intelligence (AI) is one of the most exciting technologies, both shaping and challenging the future of our industries and workforce. AI is a multidisciplinary area comprising theoretical, experimental and applied investigations of intelligent systems. Converging technologies along with natural language processing, big data and the Internet of Things (IoT) are driving the growth of AI. An introductory course in AI is a good place to start as it gives students an overview of the components, brings students up to speed on the AI research and developments to date. Covers examples of AI in use today such as Web crawlers, how humans detect financial frauds, self-driving cars, facial recognition systems, and natural language processors. Provides hands-on experience with the AI programming of different intelligent agents.

IFT 372 Wireless Networking

Systems-level coverage of advanced information communication technology (ICT) topics including both digital and analog wireless communications systems used in today's ICT networks. Transmission systems covered include microwave, satellite, cellular radio, Bluetooth and wireless fidelity communications systems. Topics include: PCM, TDM, antennas, transmission lines, microwave radio, satellite radio, Bluetooth, cellular and wireless fidelity systems.

IFT 383 Shell and Script Program/UNIX

UNIX operating system programming of shells, environment and 4th-generation languages and tools, such as sed, awk, perl, grep, make.

IFT 401 Info Tech Capstone I

First half of a comprehensive project experience based on cumulative knowledge and skills gained in earlier coursework.
IFT 402 Info Tech Capstone II

Second half of a comprehensive project experience based on cumulative knowledge and skills gained in earlier coursework.

IFT 433 Intermediate DB Mgmt Systems


IFT 443 Analyzing Big Data

Data mining and statistical techniques that arise in data analytic applications. Students learn and practice working with big data using data analytic techniques presented in earlier coursework. Discusses one or more applications associated with data analytic techniques. Practices using advanced techniques that build on the knowledge provided in earlier coursework and knowledge gained from a statistical methods course. Familiarity with databases and statistics are essential.

IFT 458 Middleware Prog & Database Sec

Covers the main concepts of middleware technologies. Includes the various methodologies used to integrate applications, databases and Web services. Students develop multilevel applications using programming/scripting languages (such as PHP, Java, Python, Perl) which access data stored in a database. Middleware programs typically control database access and protect database SQL programs from security breaches. Students access the data from applications and other Web technologies such as XML, as well as protecting the data from unauthorized access.
IFT 472 Managing the Cloud

Focuses on the cloud environment. Students learn the architecture characteristics of Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS), including how these architectures are created and maintained in a cloud environment. Also addresses networking associated with cloud interaction, SQL programming and cloud security issues.

IFT 475 Security Analysis

Processes used in cyber security analyses. Presents through exercises techniques to ensure confidentiality, integrity and availability. Includes vulnerability assessments based on faulty software design. Explores malicious code and computer crime, including operating system (OS) root kits. Students are instructed in how to conduct analyses in support of cyber security initiatives.

IFT 481 Information System Security

Implementation, development, and analysis of computer and network security policies, legal ramifications and development and analysis of risk management measures.

IFT 482 Network Forensics

Use and creation of advanced network forensics tools: intrusion detection and prevention, honeynets, traffic routing and management, and data reduction and graphing tools.

IFT 483 Developing Security Policy

Focuses on development of security policy, risk solutions and incident response facilities. Using the information security framework, identifies strategies and processes used in governance, risk management, asset management, human resources and physical security to create, evaluate and audit security policies.
IFT 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

IFT 488 Systems Administration of UNIX

UNIX administration of system and user services using command line and GUI tools. System security and forensics.

IFT 489 Network Admin with TCP/IP

Configuration and installation of networks: addressing, routing, naming, and LAN and MAN services. Network security checking, monitoring, and basic forensics.

IFT 489 TCP/IP and Routing

In-depth study of the TCP/IP protocol suite and router technology. Covers the underlying applications, components and sub-protocols that make up the TCP/IP suite. Emphasizes the fundamentals of routing, router configuration, understanding routing protocols and setting up access control lists.

IFT 494 Special Topics

Start Up Nation-Cyber Security
Covers topics of immediate or special interest to a faculty member and students.

IFT 494 Special Topics

Mnging Intel Devs in Entpr Env
Covers topics of immediate or special interest to a faculty member and students.
IFT 510 Princ of Computer & Info Tech

Comprehensive introduction to computer and information technology (IT). Provides a detailed understanding of computer architecture, system software and important related issues in an IT context. Forms a technical foundation for understanding current technologies and how they work. Topics include principles of systems’ physical architecture, operating systems and application software, storage and systems management as well as current developments in cloud computing, green IT, social networking systems, and Internet search.

IFT 510 Princ of Comp & Info Tech Arch

A comprehensive introduction to computer and information technology architectures. Provides a detailed understanding of computer architecture, system software and network architecture, including the relationships among these IT-related entities. Forms a technical foundation for understanding current IT-related technologies and how they work as an integrated system. Begins with the historical study of computing and networks and progresses through computer and networking architecture. Topics include principles of a computer’s physical and operating system architecture and its relationship to a network’s architecture, including hardware and software functionalities.

IFT 520 Adv Info Systems Security

Advanced methods that can be used to make the information secure in different environments. Provides details about modern cryptographic algorithms and their applications to make the IoT, Cloud and Big data information secure. Also provides comprehensive information about how to make wireless networks secure, different case studies and application in a real environment. Finally, covers the human aspect of information security for identifying issues and developing real solutions.

IFT 530 Info Analysis Modeling/Comm
Teaches proven techniques for modeling information requirements and organizational data resources with a strong focus on gleaning information from data. Students learn how to discover and document database requirements, functional system requirements, and user interface requirements at a level appropriate for advanced information technology practitioner. Covers techniques including entity-relationship modeling for data analysis, functional dependency and normalization for the logical design of the database, Structured Query Language (SQL) for data management, and use cases for learning the process of requirement specification.

IFT 530 Adv DB Management Systems

Teaches advanced concepts of database management systems, for example, further dependencies and higher normal forms, indexing, transaction and locking, concurrency control, database security, backup and recovery, accessing XML data, query optimization techniques, and databases for web applications. Students expand their SQL programming knowledge through focused database design practice with an increasingly complex problem and solution set using Microsoft SQL Server. Introduces NoSQL for SQL developers and about unstructured “big data” databases and hands-on experience with MongoDB. Project-driven course builds on the background presented in Software Development for Information Technology. Familiarity with information modeling and software development process is essential.

IFT 540 Software Develop for Info Tech

Teaches proven techniques for modeling information requirements and organizational data resources with a strong focus on gleaning information from data. Students learn how to discover and document database requirements, functional system requirements, and user interface requirements at a level appropriate for advanced information technology practitioner. Covers techniques including entity-relationship modeling for data analysis, functional dependency and normalization for the logical design of the database, Structured Query Language (SQL) for data management, and use cases for learning the process of requirement specification.
IFT 540 Info Systems Development

Proven techniques and methodologies for modeling information requirements and organizational data resources with a strong focus on gleaning information from data. Students learn how to discover, document and structure functional system requirements and user interface requirements at a level appropriate for advanced information technology practitioner, and develop conceptual data models. Covers the phases of a generic systems development life cycle (SDLC), object-oriented analysis and design (OOAD) with UML modeling, and Agile methodologies.

IFT 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

IFT 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

IFT 598 Special Topics
Advanced Info Systems Security
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 598 Special Topics
Mnging Intel Devs in Entpr Env
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
IFT 598 Special Topics
Analyzing Big Data
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 598 Special Topics
Systems Administration of UNIX
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 598 Special Topics
Data/Visualization/Reprt/IT
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 598 Special Topics
Natural Language Processing
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 598 Special Topics
Managing the Cloud
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

IFT 598 Special Topics
Developing Security Policy
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
IFT 598 Special Topics
Security Analysis
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

IFT 598 Special Topics
Middleware Prog & Database Sec
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MSE 510 Intro to Materials Characteriz
Introduces materials characterization techniques for analysis
of thin films and bulk materials by TEM, SEM, XRD, XPS, and
AES.

MSE 514 Physical Metallurgy
Crystal structure and defects. Phase diagrams, metallography,
solidification and casting, and deformation and annealing.

MSE 516 Mechanical Properties of Solid
Effects of environmental and microstructural variables of
mechanical properties, including plastic deformation, fatigue,
creep, brittle fracture, and internal friction.

MSE 516 Mechanical Behavior Materials
Effects of environmental and microstructural variables of
mechanical properties, including plastic deformation, fatigue,
creep and brittle fracture.

MSE 550 Adv Materials Characterization
Analytical instrumentation for characterization of materials;
SEM, SIMS, Auger, analytical TEM, and other advanced
research techniques.
MSE 560 Nanomtls in Enrgy Prod/Storage

Emphasizes the relationship among fundamental materials properties, chemical and energy transformation, as well as energy storage. Applications include the role of materials for photovoltaics, nanocatalysts, batteries, and fuel cells. Stresses fundamental principles and charge transfer processes in nanostructured materials in addressing energy needs.

MSE 565 Struc Matls in Nuc Power Sys

Provides an overview of reactor systems and discusses the structural materials used in reactor components (e.g., fuel/core, wall/blanket, heat exchanger, and steam turbine materials). Discusses design considerations and materials degradation processes that occur in service. Emphasizes the effect of radiation damage on materials properties. Reviews reactor systems, including fission- (e.g., PWR, LWR, BWR, LMFBR) and fusion-based reactors.

MSE 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

MSE 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

MSE 598 Special Topics

Overview Materials Sci Engn
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MSE 598 Special Topics
Nanomat In Energy Product
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MSE 598 Special Topics
Elec Mag/Optical Props
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MSE 598 Special Topics
Composite Materials
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MSE 598 Special Topics
Intro to Powder Processing
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MSE 598 Special Topics
Intro Microelectronics Pack
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
MSE 598 Special Topics
Supervised Project
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MSE 598 Special Topics
Intro FEA for Matl Design/Char
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MSE 598 Special Topics
Concepts in Materials Science
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

OMT 343 Occupational Safety/Ergonomics

Health and safety movement, accident theories and effects, OSHA standards and liability, safeguarding, hazards, workers’ compensation, ergonomics, and safety.

OMT 402 Legal Issues for Technologists

American legal system and impact on technology management issues: contracts, torts, intellectual property, white collar crime, antitrust, environmental, and employment.

OMT 430 Ethical Issues in Technology

Topics in social responsibility for industrial technology and engineering.
OMT 440 Introduction to Intl Business

International business principles and operations, including partnerships, trade agreements, currency issues, international sales, and cultural differences between countries.

OMT 440 International Business

International business principles and operations, including partnerships, trade agreements, currency issues, international sales, and cultural differences between countries.

OMT 445 Industrial Internship

Work experience assignment in industry commensurate with student's program. Specialized instruction by industry with university supervision. Pass/fail.

OMT 452 Industrial Human Resource Mgmt

Concepts and practices of human resource management in a global industrial environment.

OMT 452 Industrial Human Resource Mgmt

Explores the management of workplace issues and contemporary events as it relates to human capital within an organization.

OMT 480 Organizational Effectiveness

Human aspects of supervisory behavior in the industrial setting and how they influence efficiency, morale, and organizational practices.

OMT 480 Organizational Effectiveness

Explores the interaction of individual and group behavior with organizational efficiencies, strategies, structure and culture so organizations can work more effectively.
OMT 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

OMT 494 Special Topics
Lean Process Improvement
Covers topics of immediate or special interest to a faculty member and students.

OMT 504 Ethical Issues in Technology

Analyzes legal and ethical framework for making managerial decisions in the corporate environment of engineering- and technology-related industries.

OMT 520 Strategic Mgmt of Technology

Analyzes entrepreneurial dynamics and technology development, methods of research and development management, new technology implementation, and start-up organization.

OMT 548 Statistical Methods for Rsrch

Multivariate statistical techniques to analyze research data. Uses statistical software and applications.

SER 100 Object-Oriented Software Dev

Introduces problem solving with a state-of-the-art programming language. Expressions, statements, basic control flow and methods. Data, data aggregation and usage. Uses a structured personal software development process to implement solutions representative of common computing applications. Uses development kits for some course activities.

SER 215 Software Enterprise I

Software engineering; personal software processes for individual professionalism; time and defect estimation, yield, and productivity. Software tools. Project based.
SER 215 Software Enterprise: Pers Proc

Software engineering; personal software processes for individual professionalism; time and defect estimation, yield, and productivity. Software tools. Project based.

SER 216 Software Enterprise II

Project-centered course covering testing and quality in software engineering; concepts, tools, and methods in testing and quality management; teamwork and communication in software engineering. Project based.

SER 216 Software Enterpr:Testing & Qual

Project-centered course covering testing and quality in software engineering; concepts, tools, and methods in testing and quality management; teamwork and communication in software engineering. Project based.

SER 216 Software Enterpr:PersProc&Qual

Introduces software engineering, software lifecycle models, personal software processes for individual professionalism, time and defect estimation, yield and productivity, software testing and quality management.

SER 221 Pgmming Lang & Their Exec Envt

Introduces the fundamental programming language concepts of data, type, control, abstraction, and structure; software development and execution environments; programming language paradigms.

SER 222 Dsgn & Analy: Data Strs & Algo

Data structures and related algorithms for their specification, complexity analysis, implementation and application. Sorting and searching. Professional responsibilities that are part of program development, documentation and testing.

SER 232 Systems Fundamentals I
Logic design and computer organization; number systems and arithmetic, boolean algebra; digital systems components; assembly language and instruction set concepts and application.

SER 232 Systems Fundamentals I

Logic design, number systems and arithmetic, boolean algebra; digital systems components, and hardware description languages.

SER 232 Computer Systems Fundamentals

Logic design, number systems and arithmetic, Boolean algebra, digital systems components and hardware description languages.

SER 234 Operating Systems and Networks

Fundamentals of operating systems, process management, scheduling, synchronization techniques and file management. Network technology, topologies, protocols, application control; network and operating system security.

SER 250 Microcomputer Arch/Programming

Microcomputer architecture, instruction set, assembly language programming and debugging, I/O considerations, memory interface, peripherals and busses, exception/interrupt handling.

SER 315 Software Enterprise: Dsgn&Proc

Software process from the design perspective. Engineering design process, user-centered design and software safety design. User interface, software architecture and design patterns and software design constraints.

SER 316 Software Enterprise: Cnstrct

Best practices in software construction in the context of a team project, including refactoring, defensive programming, unit testing, and configuration and release management.
SER 321 Software Systems

Design and implementation of distributed software components; process and memory management underlying software applications; sockets, protocols, threads, XML, serialization, reflection, security, and events.

SER 322 Database Management

Fundamental methods in modeling and managing data-oriented systems. Relational, object, and hierarchical data modeling techniques. Query languages including SQL. Semantics of transaction processing. Database system architectures including cloud-based, client-server, and embedded databases. Security and privacy issues. Modern trends in data management including managing data on the cloud, unstructured data type management, data mining, and business analytics, and NoSQL data management platforms.

SER 334 Operating Systems and Networks

Fundamentals of operating systems, process management, scheduling, synchronization techniques and file management. Network technology, topologies, protocols, application control; network and operating system security.

SER 401 Computing Capstone I

First half of a comprehensive project experience based on cumulative knowledge and skills gained in earlier coursework.

SER 402 Computing Capstone II

Second half of a comprehensive project experience based on cumulative knowledge and skills gained in earlier coursework.

SER 415 Software Enterprise: Inception

Third course in the four-course enterprise sequence. Students perform inception (project launch) and elaboration (requirements analysis) activities in project teams.
SER 416 Software Enterprise: Proj&Proc

Project-centric course focusing on applying software process, project management, and technical leadership. Final course in the software enterprise sequence.

SER 421 Web Apps & Mobile Systems

Distributed Web and mobile applications, their design, architecture and supporting technologies; user-interaction concepts and technologies; design and implementation of software servers for Web and mobile systems.

SER 422 Web Application Programming

Design and implementation of Web application. Languages, frameworks, technologies, tools and methods used to realize Web client and server solutions. Approaches for securing, testing as well as determining the quality and reliability of Web applications.

SER 423 Mobile Systems

Mobile applications, their architecture, design, and supporting technologies; mobile device operating systems and frameworks; synchronizing mobile applications, support for inter-application data-exchange; accessing and manipulating special-purpose device capability such as location, orientation and input modality. Practices for securing mobile runtimes and optimizing run-time performance.
SER 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

SER 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

TEM 100 Seminar in Entrepreneurship

Exposes students to careers in entrepreneurship by inviting diverse entrepreneurs to discuss their businesses and backgrounds and share their stories on starting and growing their ventures.

TEM 200 My Technology Venture

Introduces the concept of entrepreneurship through venture practice and self-reflection to help students understand their potential roles in a technology-driven marketplace.

TEM 230 Creativity/Business innovation

Introduces concepts, models and techniques of creativity and innovation. Exposes processes related to developing creative skills and habits with an emphasis on problem solving and design.
TEM 230 Creativity/Business Innovation

Introduces concepts, models and techniques of creativity and innovation. Exposes processes related to developing creative skills and habits with an emphasis on problem solving and design.

TEM 250 Design Methodology

Outlines product design method and provides opportunity to apply it to a design project including identifying needs, setting target specifications, generating and selecting concepts, prototyping and testing.

TEM 294 Special Topics
Social Entrepreneurship I
Covers topics of immediate or special interest to a faculty member and students.

TEM 294 Special Topics
Introduction to Consulting I
Covers topics of immediate or special interest to a faculty member and students.

TEM 311 Opportunity Analysis

The key to making sound business decisions involves the careful analysis of the situation, intelligent use of research, and successful practice. Entails the research and implementation of strategy to determine consumer expectations utilizing the skills especially important in today’s competitive and turbulent market.

TEM 330 Systems Innovation

Systems thinking course that investigates how innovators can incorporate the knowledge of complex systems into the processes of technology development, product/service innovation and venture development.

TEM 394 Special Topics
Social Entrepreneurship II
Covers topics of immediate or special interest to a faculty member and students.
TEM 400 Technology Entrepreneurship

Introduces opportunities and challenges that accompany starting and operating an entrepreneurial venture by exploring the fundamentals and principles of entrepreneurship suitable for undergraduate business and technology students. Provides real-world, hands-on learning on what it’s like to successfully transfer knowledge into products and processes that benefit society. Engages students with industry, talking to customers, partners and competitors, as the team encounters the chaos and uncertainty of transferring knowledge into products and processes that benefit society.

TEM 400 Technology Entrepreneurship

Explores the fundamentals and principles of entrepreneurship suitable for both undergraduate business and technology students. Instructs students on the strategic path through entrepreneurship: ideation, validation, market selection, intellectual property, fundraising, launch and profitability. Also explores the impact and implications of technology. Through this course, students have the knowledge and skills to cultivate their ideas into businesses.

TEM 431 Innovation Management

Focuses on execution challenges that innovation initiatives face, including: (a) Resources: Where do the resources for innovation initiatives come from? (b) Organization: How should innovation initiatives be organized? (c) Planning: How should plans for innovation initiatives be written and through what kind of process should they be revised? Explores the processes of innovation management for various sizes of companies utilizing smaller scale, local processes to large scale, globally dispersed innovation processes and teams.
TEM 455 Global Impact Entrepreneurship

Increases awareness and understanding of the complex nature of global poverty. Students think comprehensively about sustainable ways to address by focusing on business ventures and product design, which take advantage of local resources, networks and institutions. Students design and refine technologies and services that address the needs of communities in the developing world. Examines piloted technological innovations by ASU students in the west African nation of Ghana, India, and Latin American countries such as Mexico and Peru. Analyzes technological initiatives that have been piloted in Ghana and Peru, and attempts to create sustainable business ventures for them.

TEM 481 Consulting Project

Students learn about technology entrepreneurship through consulting with leaders and owners of businesses, not-for-profit organizations and government agencies. Requires both out-of-class consulting projects and in-class instructional sessions focused on technology entrepreneurship and business strategy, including financing, promoting, leading and growing the venture and consulting skills.

TEM 482 Startup Workshop

Students launch their own technology-based ventures with collaboration and mentorship from colleagues and faculty. Explores the fundamentals and principles of entrepreneurship suitable for undergraduate technology entrepreneurship. Provides real-world, hands-on learning on what ifs to successfully transfer knowledge into products, processes and services that benefit society. Engages with industry, talking to customers, partners and competitors, as the team encounters the chaos and uncertainty of transferring knowledge into products and processes that benefit society.
TEM 482 Startup Workshop

Students launch their own technology-related ventures with collaboration and mentorship from colleagues and faculty. This class centers on hands-on learning and is appropriate for beginning as well as maturing start-ups. Students build their entrepreneurial networks and engage with stakeholders related to their business (customers, industry partners and investors). Explores the tactical challenges that come with developing an enterprise and forms strategies and methodologies to advance the venture.

TEM 494 Special Topics
Startup Nation
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Start Up Nation-Venture Capita
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Start Up Nation - Israel
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Data Driven Decision Making
Covers topics of immediate or special interest to a faculty member and students.

TEM 494 Special Topics
Digital Promotion & Analytics
Covers topics of immediate or special interest to a faculty member and students.
TEM 531 Disruptive Innov & Tech Evol

Focuses on the processes of innovation management of various sizes of companies utilizing smaller scale, local processes to large scale, globally dispersed innovation processes and teams, with an emphasis on disruptive innovation and the evolution and forecasting of technology. Provides a survey of innovation management concepts and various technological forecasting and prediction approaches, both mathematical and nonmathematical, in conjunction with a study of the evolution of selected technologies and the management problems associated with emerging technologies.

TEM 598 Special Topics
Global Impact Entrepreneurship
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TEM 598 Special Topics
Startup Workshop
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TEM 598 Special Topics
Digital Promotion & Analytics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TMC 110 Understanding the Enterprise

Introduces essential functions required in technology-based and innovative enterprises and viewed in the context of their relationship to each other; examines the enterprise's role in society.
TMC 310 Promotion of the Enterprise

Building and maintaining customers with an emphasis on developing a market identity and sales for technology-based and innovative enterprises.

TMC 310 Promotion of the Enterprise

Whether they are entrepreneurial ventures or established companies, effectively promoting products is key to enterprise performance. Focuses on how to promote products from ideation to launch to growth. Covers understanding customers (values, behavioral economics); formulating strategies (landscape, segmentation, positioning); tactics (4P's); networks and data; digital promotion and growth. Also reviews quantitative techniques (conjoint, DOE, optimization). Applies concepts to market challenges and derives optimal solutions through analysis, strategy and tactics.

TMC 320 Funding the Enterprise

Focuses on financial resource management techniques utilized by U.S. domestic companies and covers the unique aspects of revenue accounting and its application to company operations. Concepts covered include: data capture of requisite information from various computer systems; determination of revenues generated from sales of products and services to customers; in-depth analysis of operational expenses; preparation of accounting and financial data; monthly accounting requirements; account reconciliation; monthly/quarterly/annual reporting; development and analysis of financial reports and billing. Emphasizes accounting, planning and valuation concerns, as well as financial trends and industry prospects.
TMC 330 Leading the Enterprise

Essential practices for managers, including planning, organizing, leading and controlling the enterprise. Studies current issues affecting managers such as sustainability, environmental protection, work groups, globalization, technology management, entrepreneurship, diversity and continuous improvement.

TMC 330 Leading the Enterprise

Comprehensive overview of leadership strategies and development as it applies to individuals, organizations and events. Applies leadership development to workplace dynamics such as technology management, entrepreneurship and globalization.

TMC 331 Quality Assurance

Instrumentation and methodologies for materials testing and quality control in various manufacturing processes.

TMC 410 Enterprise Operations

Emphasizes basic principles of enterprise operations management, including productivity, strategic management, global environment, forecasting, capacity planning, new technologies, location and layout strategies, supply-chain management, inventory control and scheduling. Uses common decision-making issues and related qualitative and quantitative techniques.

TMC 430 Enterprise Strategy & Innov

Enterprise strategic plan development and implementation, concepts of open innovation; vision, mission, steps of strategic plan development; strategic goals, objectives, tasks, schedule, resource considerations; organization’s strengths and weaknesses; environmental opportunities and threats; strategy implementation, impact assessment and refinement, organizational- and management considerations, theory and practice of open innovation.
TMC 470 Enterprise Planning & Implementation

Investigates and tests tools and techniques for effective design and management of enterprise projects and programs using computer applications. Develops and demonstrates teambuilding and leadership skills in course projects.

TMC 480 Senior Project

Capstone project experience refining skills in communication, research and information retrieval, critical analysis and criticism, and demonstrating technical competence in each student’s area of study.

TMC 498 Pro-Seminar

Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

ACT 301 Risk Management and Insurance

Provides an introduction to the different types of risks faced by individuals, businesses and society along with ways in which they make an assessment of, control and transfer of different types of risks including property risk, liability risk, personal risks and speculative risks such as financial risks. Covers risk management techniques including risk control and risk financing with a focus on insurance policies, and also presents other major topics in personal financial planning, social insurance, insurance operations and regulations, and reinsurance. Also gives attention to contemporary issues and challenges in risk management and insurance.
AFR 350 Inequality/Diversity Education

Advanced exploration of various dimensions of diversity in relation to educational systems and outcomes. Through sociological and psychological research, case studies and films, students examine how educational inequality is created and reproduced through individual actions and institutional constraints. Also considers the connection between schooling and human rights and ways in which educational inequality may be addressed.

AFR 353 African Amer Lit: Harlem Renais

Focuses on the history of African American literature through the Harlem Renaissance, as exemplified in selected slave narratives, poems, and fiction.

AFR 354 African Amer Lit: Harlem/Presen

Examines the literary productions of African Americans from the Harlem Renaissance (about 1920) to the present focusing on fiction, poetry, drama, and essays.

AFR 375 Race, Gender and Sport

Interdisciplinary examination of the social concepts of race and gender and their economic impact on sports in America.

AFR 375 Race, Gender and Sport

Advanced and interdisciplinary examination of the social concepts of race and gender and their economic impact on sports in America. In-depth studies will focus on the role of regulatory agencies, the impact of these regulatory agencies have on sport as well as multiple legal issues surrounding athletics.

AFR 394 Special Topics
Religion: Sex, Power, & Erotic
Covers topics of immediate or special interest to a faculty member and students.
AFR 394 Special Topics
Cntmp Iss Africa - Sus Econ Dv
Covers topics of immediate or special interest to a faculty member and students.

AFR 394 Special Topics
Gender and Hip Hop
Covers topics of immediate or special interest to a faculty member and students.

APA 330 Asian Pacific American Genders

Explores gender and sexuality issues as they relate to Asian Pacific American experiences, including interracial relationships, stereotypes, feminism, queer theory.

APA 330 Asian Pacific American Genders

In-depth exploration of gender and sexuality issues as they relate to Asian Pacific American experiences, including interracial relationships, stereotypes, feminism, queer theory.

APA 350 Inequality/Diversity Education

Advanced exploration of various dimensions of diversity in relation to educational systems and outcomes. Through sociological and psychological research, case studies and films, students examine how educational inequality is created and reproduced through individual actions and institutional constraints. Also considers the connection between schooling and human rights and ways in which educational inequality may be addressed.

ARB 335 Arabic Culture and Islam

Develops awareness of Arabic culture and Islam. Covers a variety of cultural topics, including family, status of women, food, music, and Islam.
ARB 336 Introduction to the Qur’an

Introduces the Qur’an and examines the historical, contextual, religious and interpretive dimensions wherein the Qur’an developed. Deals with the structure of the Qur’an, the different sections, suras (Qur’anic chapters), and some of the verses. Also includes an introduction to the idea of revelation, its history, the content and some of the different themes of the Qur’an, and discusses aspects of the Qur’an as a source of law. Taught in English; requires no knowledge of Arabic or Islam.

ASB 100 Introduction to Global Health

Current global health crises, challenges; tools for describing health and disease; ecological, cultural, social, historical, political-economic factors; comparative health systems.

ASB 102 Intro Cultural & Social Anthro

Principles of cultural and social anthropology, with illustrative materials from a variety of cultures. The nature of culture. Social, political, and economic systems; religion, aesthetics, and language.

ASB 102 Culture in a Globalizing World

Introduces concepts and methods of sociocultural anthropology, with illustrative materials from a variety of communities in a globalizing world. Explores the concept of culture and examines a variety of social, political and economic dimensions of how humans organize their lives.

ASB 102 Intro to Cultural Anthropology

Introduces concepts and methods of sociocultural anthropology, with illustrative materials from a variety of communities in a globalizing world. Explores the concept of culture and examines a variety of social, political and economic dimensions of how humans organize their lives.
ASB 200 Food and Culture

Uses the case of food to explore how culture shapes human well-being, including the impact of political-economic systems on what we have and chose to eat.

ASB 210 Human Sexuality: Anth Perspect

Examines the sexual nature and behavior of humans from both a biological and an anthropological point of view across various cultures around the globe.

ASB 222 Buried Cities and Lost Tribes

Archaeology through its most important discoveries: human origins, Pompeii, King Tut, the Holy Land, Southwest Indians, and methods of field archaeology.

ASB 222 Buried Cities and Lost Tribes

Archaeology through its most important discoveries.

ASB 252 Sports and Culture

Cross-cultural examination of symbolic and social dimensions of sports past and present.

ASB 294 Special Topics
Intro to Evolutionary Medicine
Covers topics of immediate or special interest to a faculty member and students.

ASB 300 Food and Culture

Uses the case of food to explore how culture shapes human well-being, including the impact of political-economic systems on what we have and chose to eat.

ASB 301 Global History of Health
Examines disease and health transitions in broadest context of human history, from primate ancestors to hunter-gatherers, to transcontinental contact, colonialism, industrialization, urbanization.

ASB 305 Poverty and Global Health

From perspectives of anthropology and allied fields, explores critical, social justice, and ethical issues in health care, research, and disparities. Focuses on vulnerable and special populations.

ASB 316 Money and Culture

Using the fundamentals of economic anthropology, investigates how culture shapes our relationship to money and decision making. Provides a foundation for thinking about how production, exchange and consumption can be explained by looking at human behavior, thought and culture, and encourages students to apply anthropological knowledge to real-world situations.

ASB 322 Peoples of Latin America

Indigenous, mestizo, and national cultures, rural and urban peoples in the region that today we call Latin America. Covers historic and contemporary events and cultures.

ASB 327 Disaster!

Examines the causes of disasters, such as famines and pandemics, throughout human history. Explores cases in which social responses to disaster have helped people survive or led to their demise. Through hands-on activities, students gain experience with popular tools to understand human responses to disasters.

ASB 330 Understanding Archaeology

In-depth study and critique of theories and methods for reconstructing the lives of prehistoric peoples.
ASB 333 Frauds, Myths and Mysteries

Depictions of archaeology in popular culture are full of dubious tales of ancient extraterrestrials, giants and widespread scientific conspiracy. Explores such fantastic claims and learn how archaeologists separate plausible arguments from pseudoscience. Critically examines how and why such pseudoscientific claims develop and take hold of the public imagination.

ASB 335 Prehistory /Southwest

Advanced study of the anthropological understandings of major cultural processes and events in the prehistory of the American Southwest using evidence from archaeology.

ASB 335 Archaeology of the Southwest

Archaeological exploration of the the major cultural developments in the prehispanic Southwest, including Mesa Verde, Chaco Canyon, Mimbres, Hohokam and Rio Grande.

ASB 335 Ancient Ruins of the Southwest

Archaeological exploration of the the major cultural developments in the prehispanic Southwest, including Mesa Verde, Chaco Canyon, Mimbres, Hohokam and Rio Grande.

ASB 337 Pyramids and Hieroglyphs

Preconquest cultures and civilizations of Mexico. The Aztecs, Mayas, and their predecessors.

ASB 353 Death&Dying Cross-Culturl Prsp

Scientific and humanistic approaches to the study of death and dying from the perspective of anthropology and allied disciplines. Uses a global, comparative approach across space and time from the earliest human burials to contemporary funeral events.
ASB 357 Society and Drugs

Analyzes how humans use exogenous chemicals to change psychology, biology and behavior, and what positive and negative consequences this has for human health. Explores how such chemical technologies arise through cultural evolution, how societies decide what are appropriate and inappropriate uses of such technologies, how these technologies change what is considered normal biological functioning and behavior, and how these technologies shape human health. Through this substantive topic, introduces basic concepts and tools in two related fields - medical anthropology and epidemiology. A consistent focus in the course is developing tools that can be applied to improve the provision of care and health care policy.

ASB 362 People and Plants

Offers a global survey of ethnobotany, the study of the uses of plants by people. Integrating botany, anthropology and archaeology, students learn about the roles plants have played as foods, tools, medicines and foci of religious devotion and ritual experience across human history.

ASB 368 Hunter-Gatherers

Studies of known hunting and gathering societies with the goal of developing approaches to understanding past and/or present hunting and gathering societies.

ASB 370 Ethics of Eating

This multidisciplinary course examines the elements of modern food systems and current ethical issues regarding food production, distribution and consumption. Also provides a foundation for investigating the effects of social inequality in food systems and global and local responses to address those challenges.
ASB 378 McGlobalization

Explores the impact of globalization on local societies and cultures by focusing on the international migration of peoples, the global expansion of capitalism and global mass media and popular culture. Examines both the socioeconomic causes and consequences of globalization, as well as how local peoples around the world have been affected by, participated in and resisted the forces of globalization.

ASB 378 Globalization

Explores the impact of globalization on local societies and cultures by focusing on the international migration of peoples, the global expansion of capitalism and global mass media and popular culture. Examines both the socioeconomic causes and consequences of globalization, as well as how local peoples around the world have been affected by, participated in and resisted the forces of globalization.

ASB 380 Language, Culture & Gender

Focuses on how language, thought and culture are intertwined in everyday practice. Students learn the central role of language in shaping and reflecting social norms and social actions cross-culturally.

ASB 394 Special Topics
Field Archaelogy in Tuscany
Covers topics of immediate or special interest to a faculty member and students.

ASB 394 Special Topics
Ethics of Eating
Covers topics of immediate or special interest to a faculty member and students.

ASB 394 Special Topics
Myth Busters
Covers topics of immediate or special interest to a faculty member and students.
ASB 394 Special Topics
Wine Cult & Soc in Tuscany
Covers topics of immediate or special interest to a faculty member and students.

ASB 394 Special Topics
Culture & Society Transformation
Covers topics of immediate or special interest to a faculty member and students.

ASB 394 Special Topics
From Cells to Societies
Covers topics of immediate or special interest to a faculty member and students.

ASB 394 Special Topics
Statistics for Social Sci
Covers topics of immediate or special interest to a faculty member and students.

ASB 395 Topics in Comparative Culture
Social Networks and Health
In-depth study of specific topic(s) cross-culturally. Students engage with the subject matter through critical evaluation of literature, hands-on analysis and interpretation of data, and scientific writing.

ASB 395 Topics in Comparative Culture
Research Methods
In-depth study of specific topic(s) cross-culturally. Students engage with the subject matter through critical evaluation of literature, hands-on analysis and interpretation of data, and scientific writing.

ASB 395 Topics in Comparative Culture
Society and Drugs
In-depth study of specific topic(s) cross-culturally. Students engage with the subject matter through critical evaluation of literature, hands-on analysis and interpretation of data, and scientific writing.
ASB 410 Poverty, Soc Just & Globl Hlth

From perspectives of anthropology and allied fields, explores critical, social justice, and ethical issues in health care, research, and disparities. Focuses on vulnerable and special populations.

ASB 443 Cross-Culturl Stds Global Hlth

Direct investigations of society, ecology, and health in international settings.

ASB 452 Commnty Partnershps Global Hlth

Supervised community-based activities relevant to a global perspective on contemporary U.S. health. Addresses community-identified issues using appropriate methodologies.

ASB 455 Practicum for Soc Sci

Students integrate theoretical, methodological, ethical and experiential learning related to social science research questions.

ASB 462 Medical Anthro: Culture/Health

Role of culture in health, illness, and curing; health status, provider relations, and indigenous healing practices in United States ethnic groups.

ASB 484 Internship Collections Practicum

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ASB 484 Internship Fit Phoenix

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
ASB 484 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ASB 494 Special Topics
Maternal and Child Health
Covers topics of immediate or special interest to a faculty member and students.

ASB 598 Special Topics
Maternal and Child Health
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ASM 104 Bones, Stones/Human Evolution

ASM 201 Epidemics and Outbreaks
Covers epidemiologic methods for the control of conditions such as infectious and chronic diseases, mental disorders, community and environmental health hazards, and unintentional injuries. Other topics include quantitative aspects of epidemiology, including data sources, measures of morbidity and mortality, evaluation of association and causality, and study design. A background in basic biology and a basic understanding of the principles of human diseases helpful in succeeding in this course.

ASM 246 Human Origins
History of discoveries and changing interpretations of human evolution. Earliest ancestors to emergence of modern humans. Humanity’s place in nature.
ASM 275 Forensic Anthropology

Discusses the role of the forensic anthropologist in medico-legal investigations involving skeletonized human remains. Includes forensic recovery techniques, identification of decedents through skeletal and dental analysis, and reconstructing the crime scene through analysis of trauma patterns. Covers the legal aspects of forensic practice and considers historical case studies and the contributions forensic anthropologists make to mass disaster investigations and human rights abuses.

ASM 301 Peopling of the World

Reviews all evidence for human dispersal during the last 100,000 years, origins of language, cultures, races, and beginnings of modern humans.

ASM 345 Disease and Human Evolution

Interaction of people and pathogens from prehistoric times to the present, with emphasis on disease as an agent of genetic selection.

ASM 414 Urban and Environmental Health

Integrates theory and practice of social sciences (including anthropology, demography, and human geography) to understand environmental contexts of health, particularly urban.

ASM 443 Primatology

Evolution and adaptations of nonhuman primates, emphasizing social behavior. Includes material from fossil evidence and field and lab studies in behavior and biology which must be critically integrated with relevant competing theories concerning the evolution of primate behavior and biology.
ASM 450 Bioarchaeology

Surveys archaeological and physical anthropological methods and theories for evaluating skeletal and burial remains to reconstruct biocultural adaptation and lifeways.

ASM 494 Special Topics
EvMed & GH
Covers topics of immediate or special interest to a faculty member and students.

ASM 598 Special Topics
EvMed & GH
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

AST 111 Intro/Solar Systems Astronomy

History, properties of light, instruments, study of solar system and nearby stars. For nonscience majors. Optional lab (AST 113). Both AST 111 and AST 113 or AST 114 must be taken to secure SQ general studies credit.

AST 112 Intro Stars, Galaxies & Cosmo

Structure and evolution of stars, star clusters, galaxies, cosmology. For nonscience majors. Optional lab (AST 114). Both AST 112 and AST 113 or AST 114 must be taken to secure SQ General Studies credit.

AST 113 Astronomy Laboratory I

Astronomical observations and experiments designed to help the student become familiar with the sky, telescopes, and astronomical measurements. Both AST 111 and 113 or AST 113 and 321 must be taken to secure SQ General Studies credit. Fee.
AST 113 Astronomy Laboratory I

Astronomical observations and experiments designed to help the student become familiar with the sky, telescopes, and astronomical measurements. Both AST 111 and 113 or AST 113 and 321 must be taken to secure SQ General Studies credit.

AST 114 Astronomy Laboratory II

Similar to AST 113, but material chosen to supplement AST 112 and 322. Fee. Both AST 112 and 114 or AST 114 and 322 must be taken to secure SQ General Studies credit

BCH 341 Physical Chem with Bio Focus

Thermodynamics, equilibrium, states of matter, solutions and chemical kinetics with a focus on biological systems. For students in biochemical, premedical, biomedical and educational curricula.

BCH 361 Principles of Biochemistry

Advanced consideration of the structures, properties, and functions of proteins, enzymes, nucleic acids, carbohydrates, and lipids; principles and theory of the utilization and synthesis of these materials by living systems, and the relationship of these processes to energy production and utilization. The course is recommended for pre-health students. No credit for Biochemistry majors.

BCH 367 Elementary Biochemistry Lab

Qualitative/quantitative analyses of constituents of biological systems, enzyme activity measurements and metabolic studies.
BCH 392 Intro to Research Techniques

Instrumental methods and philosophy of research by actual participation in chemical research projects. May be repeated for total of 6 semester hours.

BCH 461 General Biochemistry

Structure, chemistry, and metabolism of biomolecules and their role in the biochemical processes of living organisms.

BCH 462 General Biochemistry

Continuation of BCH 461.

BCH 463 Biophysical Chemistry

Principles of physical chemistry as applied to biological systems.

BCH 467 Analytical Biochemistry Lab

Quantitative analysis, separation and purification of biological molecules. Applies chemical and physical methods to the characterization of biological macromolecules.

BCH 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

BIO 100 The Living World

Principles of biology. Cannot be used for major credit in the biological sciences.

BIO 112 Discovery - Why Sex?

“Why?” is a question that animates the youngest of children to the most seasoned of scientists. The acts of asking and answering “Why?” highlight the integrated nature of scientific knowledge and discovery. Demonstrates scientific disciplines are not walled cities in which knowledge is neatly segregated from lines of inquiry and
knowledge in other disciplines. Instead, scientific concepts weave throughout and between disciplines and scientists increasingly rely on colleagues from different scientific fields to find answers to scientific questions. So our journey to find responses to the question “Why Sex?” takes us not just to biology, but also to earth science and to physics. Along the way, scientists are linked together not only through concepts that crosscut the disciplines, but also in their reliance upon key scientific skills such as the ability to observe, think critically, measure, gather data and communicate their findings.

BIO 140 Grk&Lat Roots Biosctfc Trmnlgy

Introduces students to the ancient Greek and Latin root words most commonly used in biological, medical, and other scientific terminology, and gives practice identifying them in context. The knowledge of these root words enables students to memorize with greater ease and increased retention the bioscientific terminology they encounter in other coursework as well as in their medical or scientific profession.

BIO 181 General Biology I

Biological concepts emphasizing principles and the interplay of structure and function at the molecular, cellular, and organismal levels. Intended for life sciences, biology, and health-related science majors.

BIO 182 General Biology II

Biological concepts emphasizing principles and the interplay of structure and function at the organismal, population, and community levels. Intended for life sciences, biology, and health-related science majors.

BIO 194 Special Topics
Discovery: Why Sex?
Covers topics of immediate or special interest to a faculty member and students.

BIO 194 Special Topics
Marine Biology
Covers topics of immediate or special interest to a faculty member and students.

BIO 201 Human Anatomy/Physiology I

Studies the structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. Cannot be used for major credit in the life sciences.

BIO 202 Human Anatomy & Physiology II

Studies the structure and function of the human body. Topics include cardiovascular, respiratory, lymphatic/immune, endocrine, renal, digestive, and reproductive systems. Cannot be used for major credit in the life sciences.

BIO 294 Special Topics
Intro to Evolutionary Medicine
Covers topics of immediate or special interest to a faculty member and students.

BIO 312 Bioethics

Critical examination of moral questions arising in biomedical contexts, particularly due to new technologies and scientific discoveries.

BIO 318 History of Medicine


BIO 320 Fundamentals of Ecology

Organization, functioning, and development of ecological systems; energy flow; biogeochemical cycling; environmental relations; population dynamics.

BIO 321 Introductory Ecology Lab
Lab and field observations and experiments to test current concepts and theories in ecology.

BIO 322 Conservation of Biodiversity

Species-level approaches to the protection, management, and restoration of biological resources from scientific and policy perspectives.

BIO 324 Environmental Ethics

Examines a full range of philosophical positions pertaining to our moral relationship to the natural world; anthropocentrism, individualism, biocentrism.

BIO 331 Animal Behavior

Theories of evolutionary, genetic, physiological, and ecological bases of animal behavior.

BIO 340 General Genetics

Science of heredity and variation.

BIO 345 Evolution

Processes of adaptive change and speciation in sexual populations.

BIO 351 Developmental Biology

Principles of developmental biology, including the development of major organ systems and their underlying molecular and cellular mechanisms. Illustrated mainly using vertebrate examples.

BIO 353 Cell Biology

Surveys major topics in cell biology, including structural, biochemical, and molecular aspects of cell function.
BIO 357 Cell & Molecular Bio Lab

Laboratory concepts and techniques central to cell biology and molecular biology emphasize principles and the interplay of these two sub disciplines. Intended for life sciences, biology, and health-related science majors.

BIO 360 Animal Physiology

Principles and mechanisms of physiological regulation in animals, with a focus on humans.

BIO 361 Animal Physiology Laboratory

Experimental lab studies of physiological mechanisms in animals and model systems.

BIO 370 Vertebrate Zoology

Characteristics, classification, evolution, and natural history of the major groups of vertebrate animals.

BIO 394 Special Topics
Med & Vet Care Internship
Covers topics of immediate or special interest to a faculty member and students.

BIO 394 Special Topics
Dog Behavior
Covers topics of immediate or special interest to a faculty member and students.

BIO 394 Special Topics
Cell & Molecular Biology Lab
Covers topics of immediate or special interest to a faculty member and students.

BIO 394 Special Topics
The Global Water Classroom
Covers topics of immediate or special interest to a faculty member and students.
BIO 394 Special Topics  
Career Prof. Develop for LS  
Covers topics of immediate or special interest to a faculty member and students.

BIO 394 Special Topics  
From Cells to Societies  
Covers topics of immediate or special interest to a faculty member and students.

BIO 394 Special Topics  
Med and Vet care Int in Guat  
Covers topics of immediate or special interest to a faculty member and students.

BIO 394 Special Topics  
Pers Stmt Med/Grad Schl Apps  
Covers topics of immediate or special interest to a faculty member and students.

BIO 400 Topics in Neuroscience

Covers in-depth important and emerging developments in neuroscience, emphasizing lectures that include readings of recent reviews and contemporary publications in peer-reviewed journals. Includes a significant writing component; students learn skills for writing scientific publications and grant applications.

BIO 416 Biomedical Research Ethics

Considers issues related to values in science such as collaboration, finances, legal issues, media, mentoring, ownership of ideas, scientific integrity.
BIO 432 Why People Steal, Cheat, and Lie

Explores the ecological and evolutionary causes of selfishness and cooperation in human societies. Students apply biological models to predict patterns of behavior in human populations and evaluate these models with empirical data. Develops new scientific and philosophical perspectives on human behavior by integrating ideas from complementary disciplines, including biology, psychology, anthropology, criminology, sociology and philosophy.

BIO 475 Adv. Human Anatomy

Continues study of the human body. Specifically, explores and differentiates anatomic concepts at an advanced level. Additional didactic assignments designed to facilitate critical evaluation of pathophysiological principles and common misconceptions of human physiology, as well as a capstone presentation project. Grades are determined by class exercises, presentations and a series of critical thinking exercises.

BIO 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

BIO 494 Special Topics
Fundamentals-Tropical Biology
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Sustainable Plasticity in Brain
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Prep-Sustainable Wildlife Econ
Covers topics of immediate or special interest to a faculty member and students.
BIO 494 Special Topics
LEAP - Learning About Research
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Soc & Natrl Resrce Mgmt
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Maternal and Child Health
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Socio-ecol. Systems & Adaptation
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
LEAP - Entering Research
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Biology of Happiness
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Scientific & Technical Comm.
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
Sust Chall of Wildlife Econ
Covers topics of immediate or special interest to a faculty member and students.
BIO 494 Special Topics
Tropical Research
Covers topics of immediate or special interest to a faculty member and students.

BIO 494 Special Topics
EvMed & GH
Covers topics of immediate or special interest to a faculty member and students.

BIO 495 Undergraduate Research
Supervised research in biology/microbiology/molecular biosciences and biotechnology/or plant biology.

BIO 598 Special Topics
Sust Plasticity in Brain
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BIO 598 Special Topics
Topics in Neuroscience
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BIO 598 Special Topics
Prep-Sustainable Wildlife Econ
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BIO 598 Special Topics
Maternal and Child Health
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
BIO 598 Special Topics
Sust Chall of Wldlfe Econ
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

BIO 598 Special Topics
EvMed & GH
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

BMY 501 Essentials of Biomim
Offered as a sampler of the various topics (discipline, emulate,
ethos, (re)connect and iSites, human-nature connection,
biomimicry yhinking, and life’s principles) within the discipline
of biomimicry. Each week is devoted to a specific topic and
is led by a different instructor. Provided a basic overview
of each aspect of the discipline with ample opportunity for
conversation and dialogue around the specific components,
with an understanding that greater depth into each topic can
be learned by taking the advanced BMY courses.

BMY 502 Life’s Principles
Life’s principles are nature’s universal design guidelines based
on 3.8 billion years of successful strategies across all life.
With instruction by Dr. Dayna Baumeister, this 16-week online
course takes participants on a deep dive of life’s principles,
including the review and study of life’s operating conditions,
the six primary principles and their related sub-principles.
Gives participants the experience necessary to bring these
design guidelines into practice.
BMY 503 BIO Taught Functionally

Biomimicry teaches biology through the lens of function, thereby providing a core understanding in biology for all students, no matter their background. Explores how biologists gather and research information and how that knowledge can inform other disciplines. Also introduces the art of translating biological concepts into strategies for application, which is then carried throughout all the courses. Students learn how to work with biologists on a biomimicry team and how to weave biology and biomimicry together. The biologists in the cohort not only learn to look at nature through the function lens, but also act as subject matter experts for their interdisciplinary teams and teaching assistants.

BMY 504 Biomimicry Thinking

Biomimicry thinking is the practice of biomimicry from a methodology-based approach. 16-week intensive in the methodology of biomimicry reviews how biology and biomimicry can be incorporated into the four major phases of any design process: scoping, discovering, creating and evaluating. Covers the art of translating biological concepts into strategies for application and building a taxonomy of design principles.

BMY 504 Biomimicry Thinking

Biomimicry thinking is the practice of biomimicry from a methodology-based approach. It is a 15-week intensive in the methodology of biomimicry that reviews how biology and biomimicry can be incorporated into the four major phases of any design process: scoping, discovering, creating and evaluating. Covers the art of translating biological concepts into strategies for application and building a taxonomy of design principles.
BMY 511 Biomimicry and Design

Biomimicry is innovation inspired by nature, or the conscious emulation of nature’s genius. Prepares participants to design sustainable innovations using the biomimicry philosophy and methodology. Participants complete a 16-week series of lectures and assignments to demystify the design thinking process, understand how to harness the potential of approaching challenges with a design mind, distill a design challenge, understand user needs, build a bridge between biology and design, use a methodology for discovering models from nature, abstract design principles from bio-inspired strategies, and translate those principles into sustainable innovations. Participants both with a design background and without equally experience a deep immersion into the world of biomimetic design.

BMY 512 Biomimicry and Engineering

Prepares participants to understand the field of engineering; identify the types of engineers and what each one does; what constrains engineers' work under, materials selected by engineers, how to present biological ideas to engineers and how to integrate ideas from their discipline into sustainable engineering designs using biomimicry principles. Most examples used are of large engineered structures. These structures play critical functions in human systems, have a significant impact on the environment and last for over a 100 years, so it is important to imbed as much sustainability into their design as possible. Requires a final team project designed to put these ideas into practice.

BMY 516 Biomimicry and Business

Addresses business topics from the biomimicry point of view; explains mechanisms and tools for comparing and contrasting business and nature. Challenges participants to question conventional ways of conducting business and come up with new approaches based on a different point of view.
BMY 516 Biomimicry and Business

Addresses business topics from the biomimicry point of view; explains mechanisms and tools for comparing and contrasting business and nature. Challenges participants to question conventional ways of conducting business and come up with new approaches based on a different point of view. Recommend BMY 502 and BMY 504 to be successful in this course.

BMY 517 Human-Nature Connection

Grounds the emerging discipline of biomimicry as a continuation of our ancestral connection with nature. Human-Nature Connection (HNC) engages participants in an exploration of the meaning and value of connecting with nature. Topics include defining humans, nature, and our connection with nature; establishing the evolutionary, personal, and socio-cultural influences on the different expressions of this connection; and illustrating the relevance of biomimicry to the human-nature connection.

BMY 530 Virtual Design Lab Prac

Practicum designed to allow participants to dive deep into the biomimicry tools and resources presented during the program and to apply them selectively to a specific and unique opportunity of the student’s choosing. Projects should have a meaningful outcome achievable within the semester, and should engage the scoping, discovering, creating and evaluating phases of biomimicry thinking. Deliverables are milestone based, and the final deliverable should have application in a real-world setting.

BMY 580 Practicum

Biomimicry Genius Biome Pract
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

BMY 580 Practicum

BioBrainstorm Practicum
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
BMY 580 Practicum
Biomimicry Case Study Pract
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

BMY 591 Seminar

A small class emphasizing discussion, presentations by students, and written research papers.

BMY 591 Seminar
Biomimicry Readings
A small class emphasizing discussion, presentations by students, and written research papers.

BMY 598 Special Topics
Communicating Biomimicry
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMY 598 Special Topics
Teaching Biomimicry
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMY 598 Special Topics
Biomimicry Ethos
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
BMY 598 Special Topics
Facilitating Biomimicry
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

BMY 598 Special Topics
iSites
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CDE 232 Human Development

Lifespan development from conception through adulthood, with emphasis on family influences. Recognition of individuality within the universal pattern of development.

CDE 244 Children with Health Challenge

Provides a comprehensive introduction to family-centered care, psychosocial assessment of the hospitalized and chronically ill child, and techniques to support their coping. Utilizes the principles/theories of child development, and introduces the role of a child-life specialist in the promotion of effective coping through play, preparation and education among children, youth and families facing challenges related to health care and hospitalization.

CDE 294 Special Topics
Child Health Care Challenges
Covers topics of immediate or special interest to a faculty member and students.

CDE 312 Adolescence

In-depth examination of the developmental and social processes that help explain modern adolescence.
CDE 350 Inequality/Diversity Education

Advanced exploration of various dimensions of diversity in relation to educational systems and outcomes. Through sociological and psychological research, case studies and films, students examine how educational inequality is created and reproduced through individual actions and institutional constraints. Also considers the connection between schooling and human rights and ways in which educational inequality may be addressed.

CDE 418 Aging and the Life Course

Examines aging as a process of change and adaptation over the lifespan, patterned by social, cultural, and historical forces.

CDE 430 Infant/Toddler Devel in Family

Examines the development of infants/toddlers, the socialization processes of families, and the interactions of these processes.

CDE 450 Child Dysfnc in the Family

This course will provide a focused study of the development of dysfunction within the family context. Other contextual influences will also be considered.

CDE 498 Pro-Seminar
Gender, Peers and School
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

CDE 498 Pro-Seminar
Understand Bullying&Prevention
Small-group study and research for advanced students within their majors.

CDE 501 Social Statistics

Understands and uses statistics for applications in the social sciences.
CDE 531 Theoretical Issues Child Devel

Major developmental theories, related research, and their application to family interaction.

CDE 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

CDE 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

CHI 101 First-Year Chinese I

Pronunciation, grammar, elementary conversation, and development of basic reading and writing skills. Standard dialect. 5 class hours.

CHI 102 First-Year Chinese II

Pronunciation, grammar, elementary conversation, and development of basic reading and writing skills. Standard dialect. 5 class hours.

CHI 194 Special Topics
Gateway to China
Covers topics of immediate or special interest to a faculty member and students.

CHI 201 Second-Year Chinese I

Systematic review of grammar. Development of vocabulary through reading and writing. Drill in aural/oral skills. 5 class hours.
CHI 202 Second-Year Chinese II

Systematic review of grammar. Development of vocabulary through reading and writing. Drill in aural/oral skills. 5 class hours.

CHM 107 Chemistry and Society

“General chemical principles and concepts presented in context of social and technological issues, e.g., energy, pollution, global warming, and others. This is a lecture course which may be combined with the laboratory CHM 108 for those interested in lab course credit. Cannot be used for major credit in chemical or biochemical sciences. Credit earned for CHM 101 and any combination of CHM 107 and 108 cannot be used simultaneously. Both CHM 107 and 108 must be taken to secure General Studies SQ credit.”

CHM 107 Chemistry and Society

General chemical principles and concepts presented in context of social and technological issues, e.g., energy, pollution, global warming, and others. This lecture course may be combined with the laboratory CHM 108 for those interested in lab course credit. Cannot be used for major credit in chemical or biochemical sciences. Both CHM 107 and CHM 108 must be taken to secure SQ credit.

CHM 108 Chemistry and Society Lab

Experiments in chemical principles presented in chemistry and society lectures (CHM 107). Students must complete both CHM 107 and CHM 108 to receive an SQ (General Studies).

CHM 113 General Chemistry I

Principles of chemistry. Adapted to the needs of students in the physical, biological, and earth sciences.
CHM 114 General Chemistry for Engrs

Chemical principles with emphasis toward engineering. Students without high school chemistry or chemical engineering majors must enroll in the CHM 113, 116 sequence instead of CHM 114.

CHM 114 General Chemistry for Engrs

Chemical principles with emphasis toward engineering. Students without high school chemistry or are chemical engineering majors must enroll in the CHM 113, 116 sequence instead of CHM 114.

CHM 116 General Chemistry II

Continuation of CHM 113. Equilibrium theory, thermodynamics, kinetics, electrochemistry, nuclear chemistry, descriptive chemistry.

CHM 194 Special Topics
Crime Scene Science
Covers topics of immediate or special interest to a faculty member and students.

CHM 231 Elementary Organic Chemistry

Surveys organic chemistry, with emphasis on the reactivity of basic functional groups. Both CHM 231 and 235 must be taken to secure SQ General Studies credit.

CHM 233 General Organic Chemistry I

Chemistry of organic compounds.

CHM 234 General Organic Chemistry II

Continuation of CHM 233.

CHM 235 Elementary Organic Chem Lab

Organic chemistry experiments in synthesis, purification, analysis, and identification. Both CHM 231 and 235 must be taken to secure SQ General Studies credit.
CHM 237 Gen Organic Chemistry Lab I

Microscale organic chemical experiments in separation techniques, synthesis, analysis and identification, and relative reactivity.

CHM 238 Gen Organic Chemistry Lab II

Continuation of CHM 237.

CHM 294 Special Topics
Chemistry/Biochem Adv Assist
Covers topics of immediate or special interest to a faculty member and students.

CHM 325 Analytical Chemistry

Advanced principles and theory of quantitative analysis, including stoichiometry, equilibria, photometric methods, electrochemistry, separation processes, statistical data analysis, and applications to advanced topics in analytical chemistry.

CHM 392 Intro to Research Techniques

Instrumental methods and philosophy of research by actual participation in chemical research projects.

CHM 394 Special Topics
Intro to Comput Chem & Biochem
Covers topics of immediate or special interest to a faculty member and students.

CHM 394 Special Topics
Peer Mentor
Covers topics of immediate or special interest to a faculty member and students.

CHM 435 Medicinal Chemistry

Principles of medicinal and pharmaceutical chemistry. Drug design, synthesis, and mechanism of action.
CHM 453 Inorganic Chemistry

Principles and applications of inorganic chemistry.

CHM 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

COM 100 Intro to Human Communication

Topics-oriented introduction to basic theories, dimensions, and concepts of human communicative interaction and behavior.

COM 207 Intro to Communication Inquiry

Bases of inquiry into human communication, including introduction to notions of theory, philosophy, problems, and approaches to the study of communication.

COM 230 Small Group Communication

Principles and processes of small group communication, attitudes, and skills for effective participation and leadership in small groups, small group problem solving, and decision making.

COM 250 Intro Organizational Comm

Introduces the study of communication in organizations, including identification of variables, roles, and patterns influencing communication in organizations.

COM 250 Communication & the Workplace

Introduces the study of communication in the workplace, including topics such as successful organizational communication strategies, supervisor and peer relationships, workplace conflict, new media and technology, professionalism, organizational morale, work-life well-being and employee socialization.
COM 259 Comm Bus & the Professions

Interpersonal, group, and public communication in business and professional organizations.

COM 263 Elements Intercultural Comm

Basic concepts, principles, and skills for improving communication among persons from different minority, racial, ethnic, and cultural backgrounds.

COM 308 Adv Research Methods in Comm

Advanced communication research methods, including quantitative, qualitative, and critical approaches.

COM 310 Relational Communication

Explores communication issues in the development of personal relationships. Current topics concerning communication in friendship, romantic, and work relationships.

COM 312 Comm, Conflict & Negotiation

Theories and strategies of communication relevant to the management of conflicts and the conduct of negotiations.

COM 316 Gender and Communication

Introduces gender-related communication. Examines verbal, nonverbal, and paralinguistic differences and similarities within social, psychological, and historic perspectives.

COM 319 Persuasion/Social Influence

Variables that influence and modify attitudes and behaviors of message senders and receivers, including analysis of theories, research, and current problems.
COM 394 Special Topics
Com & Entrepreneurial Thinking
Covers topics of immediate or special interest to a faculty member and students.

COM 400 Communication in Professions
Intercultural Business Comm
Specialized study of communication processes in professional and organizational settings.

COM 408 Quant Research Meth in Comm

Advanced designs, measurement techniques, and methods of data analysis of communication research.

COM 414 Crisis Communication

Role of communication in crisis development and intervention.

COM 430 Leadership Group Communication

Theory and process of leadership in group communication, emphasizing philosophical foundations, contemporary research, and applications to group situations.

COM 453 Communication Training/Develop

Examines the procedures and types of communication training and development in business, industry, and government.

COM 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

COM 501 Research Methods in Comm

Critical analysis of systems of inquiry in communication, focusing on the identification of variables and approaches to conducting research in communication.
COM 504 Theories and Models in Comm

Theory construction, metatheoretical concerns, models, construct definition, and comparative analysis of current theories in communication.

COM 508 Quant Rsrch Methods in Comm

Empirical research designs, measurements, and statistical strategies and techniques in analyzing and evaluating experimental and descriptive research in communication.

COM 540 Conducting Comm Research

Develops the skills necessary to conduct communication research in the workplace. Students develop a research proposal for a project that they could conduct at their current jobs or a job they would like to have. They may choose to develop a proposal for their capstone project or a project that they would like to conduct in the future.

COM 550 Capstone

Culminating experience of the Master of Arts in Communication. The capstone course allows each student to develop a project that answers a question or solves a problem tailored to his or her interests, needs and goals. Develops final products individually based on consultation with faculty. Each student has a two-faculty member committee to support the capstone project.

COM 598 Special Topics

Communication in the Workplace
Topical courses not offered in regular course rotation-- e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
COM 598 Special Topics
Crisis Management & Comm
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

COM 598 Special Topics
Comm & Conflict Transformation
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

COM 598 Special Topics
Training and Development
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

COM 598 Special Topics
Social Influence & Persuasion
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

COM 598 Special Topics
Communication and Gender
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

COM 598 Special Topics
Comm in Global Contexts
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
COM 598 Special Topics
Negotiation Theory & Practice
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

ENG 194 Special Topics
Poetry in America
Covers topics of immediate or special interest to a faculty
member and students.

ENG 200 Critical Reading & Writing/Lit
Introduces the terminology, methods, and objectives of the
study of literature, with practice in interpretation and evaluation.

ENG 204 Intro to Contemporary Lit
Poetry, fiction, drama, and possibly other genres.

ENG 221 Survey of English Literature
Medieval, Renaissance, and 18th-century literature.
Emphasizes major writers and their works in their literary and
historical contexts.

ENG 222 Survey of English Literature
Romantic, Victorian, and 20th-century literature. Emphasizes
major writers and their works in their literary and historical
contexts.

ENG 241 Literatures of the US to 1860
Surveys literary movements and genres from colonization to
the Civil War.

ENG 242 Literature of US Post 1860
Surveys literary movements and genres from the Civil War to
the present.
ENG 245 Popular Culture Issues
Pulp Fiction
Selected topics in various forms of popular culture related to written texts.

ENG 287 Beginning Workshop Poetry

Beginning writing of poetry.

ENG 288 Beginning Workshop Fiction

Beginning writing of fiction.

ENG 302 Business Writing

Advanced interdisciplinary writing course designed to improve the workplace writing competence of W. P. Carey School of Business professional and preprofessional students. Lecture, discussion, case studies, cooperative learning, interactive, Internet, student presentations.

ENG 318 Life and Death of Lang

The history of language development, spread and contraction as well as thinking on where language may be going in the future. Discusses how languages differentiate and become new languages, how they mix with each other and how the development of writing can change this process. Maintains a focus on the ways speakers from different language communities have found to communicate through pidgin languages, bilingualism and languages of wider communication. Moreover, discusses the invention of new varieties and languages by people who feel their current choices do not fit their needs. Lastly, in considering what might be needed in the future, addresses issues such as machine translation, brain-to-brain communication, aspects of intergalactic communication posed in science fiction and interspecies communication.
ENG 319 Future of English

This transdisciplinary course investigates what varieties of English are currently used by whom and for what purposes, and attempts to predict the future of English and its significance at the individual, national and global levels.

ENG 321 Shakespeare

Readings in Shakespeare's major comedies, tragedies, histories, romances and/or poems.

ENG 329 19th-Century British Fiction
The Gothic Tradition
Includes such authors as Austen, Dickens, Eliot, and Conrad.

ENG 329 19th-Century British Fiction

Includes such authors as Austen, Dickens, Eliot, and Conrad.

ENG 329 19th-Century British Fiction
The Double
Includes such authors as Austen, Dickens, Eliot, and Conrad.

ENG 333 American Ethnic Literature
Contemp Amer Jewish Fiction
Examines America's multiethnic identity through works of literature that depict American ethnic, gender, and class sensibilities.

ENG 333 American Ethnic Literature

Examines America's multiethnic identity through works of literature that depict American ethnic, gender, and class sensibilities.

ENG 333 American Ethnic Literature
Ethnicity
Examines America's multiethnic identity through works of literature that depict American ethnic, gender, and class sensibilities.
ENG 333 American Ethnic Literature
Multi-Ethnic Literature
Examines America’s multiethnic identity through works of literature that depict American ethnic, gender, and class sensibilities.

ENG 337 Major American Novels

Major American novels studied in their ethnically diverse literary, historical, and cultural contexts.

ENG 338 Protest Literature

Examines traditions of social protest literature across a variety of historical periods and literary and rhetorical genres.

ENG 345 Selected Authors or Issues
Prison Literature
Different topics may be offered. Film topics with lab may carry 4 credits. May be repeated for credit when topics vary.

ENG 345 Selected Authors or Issues
Noir Fiction and Film
Different topics may be offered. Film topics with lab may carry 4 credits. May be repeated for credit when topics vary.

ENG 352 Short Story

Development of the short story as a literary form; analysis of its technique from the work of representative authors.

ENG 353 Af/Am Lit: Begin-Harlem Renais

Focuses on the history of African American literature through the Harlem Renaissance, as exemplified in selected slave narratives, poems, and fiction.

ENG 354 Af/Am Lit: Harlem Renais-Pres

Examines the literary productions of African Americans from the Harlem Renaissance (about 1920) to the present focusing on fiction, poetry, drama, and essays.
ENG 356 The Bible as Literature

Readings in the Jewish and Christian Scriptures in modern translation.

ENG 359 Indigenous American Literature

Selected oral traditions and contemporary works by Indigenous American authors.

ENG 367 Environmental Literature & Film

Evaluates literary texts and films that address interconnected cultural, historical, and environmental issues.

ENG 369 Science Fiction Studies
Intro to Science Fiction
Development of science fiction and fantasy literature. May be repeated for credit when topics vary.

ENG 369 Science Fiction Studies
Development of science fiction and fantasy literature. May be repeated for credit when topics vary.

ENG 369 Science Fiction Studies
Red Mirror: The Lit of Mars
Development of science fiction and fantasy literature. May be repeated for credit when topics vary.

ENG 378 Environmental Creative Nonfiction

Lectures, discussion, and criticism concerning the literary history of nature writing and techniques of writing environmental creative nonfiction for publication.

ENG 387 Intermediate Workshop Poetry

Intermediate writing of poetry. Requires term paper or equivalent out-of-class written work.
ENG 394 Special Topics
Jane Austen & the 19th C Novel
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Literature of the Atlantic Rim
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
The Life & Death of Languages
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
The Condition Eng Novel 19th C
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Nordic Mythology
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Poetry in Public
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Perspectives on Int Chld Lit
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Future of English
Covers topics of immediate or special interest to a faculty member and students.
Popular Lit - Stephen King
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Contemporary Lit for Writers
Covers topics of immediate or special interest to a faculty member and students.

ENG 421 Studies in Shakespeare
Shakespeare in Performance
Close examination in selected dramatic and/or nondramatic works.

ENG 421 Studies in Shakespeare
Shakespeare and Age of Empire
Close examination in selected dramatic and/or nondramatic works.

ENG 421 Studies in Shakespeare
Italy & English Drama
Close examination in selected dramatic and/or nondramatic works.

ENG 436 Studies Anglophone Lit/Culture
Postcolonial Studies
Literary, social, and cultural issues of English-speaking former colonial territories. May be repeated for credit when topics vary.

ENG 436 Studies Anglophone Lit/Culture
Postcolonial Lit and the Globe
Literary, social, and cultural issues of English-speaking former colonial territories. May be repeated for credit when topics vary.

ENG 436 Studies Anglophone Lit/Culture
Global Formative Fictions
Literary, social, and cultural issues of English-speaking former colonial territories. May be repeated for credit when topics vary.
ENG 440 Studies in Amer Lit & Culture
Various genres in their literary, political, theoretical, and historical contexts.

ENG 440 Studies in Amer Lit & Culture
Sexuality
Various genres in their literary, political, theoretical, and historical contexts.

ENG 440 Studies in Amer Lit & Culture
Sexuality in Cont. Amer. Lit
Various genres in their literary, political, theoretical, and historical contexts.

ENG 469 Science and Literature
Lit/Science in Eng:1780-1900
Historical and theoretical links between science and literature, from Francis Bacon to the present, examined in cultural context. May be repeated for credit when topics vary.

ENG 469 Science and Literature
Rhetoric of Science Writing
Historical and theoretical links between science and literature, from Francis Bacon to the present, examined in cultural context. May be repeated for credit when topics vary.

ENG 469 Science and Literature
After the Book: Future of Text
Historical and theoretical links between science and literature, from Francis Bacon to the present, examined in cultural context. May be repeated for credit when topics vary.

ENG 469 Science and Literature
Historical and theoretical links between science and literature, from Francis Bacon to the present, examined in cultural context. May be repeated for credit when topics vary.
ENG 469 Science and Literature
19th Century Lit & Med Science
Historical and theoretical links between science and literature, from Francis Bacon to the present, examined in cultural context. May be repeated for credit when topics vary.

ENG 470 Symbols/Archetypes Child Lit
Various critical approaches and recurring themes studied in relation to classical and contemporary children's literature.

ENG 471 Literature for Young Adults
Prose and poetry that meet the interests and capabilities of junior high and high school students. Stresses recent literature. A passing grade of at least “C” (2.00) required before students are permitted to student teach in English.

ENG 472 Rhetorical Studies
Developments in theory and practice of major rhetorical inquiries.

ENG 484 Internship
The Pen Project
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 484 Internship
Writing Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 484 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 494 Special Topics
The Afterlives of Beowulf
Covers topics of immediate or special interest to a faculty member and students.
ENG 494 Special Topics
14C. English Lit & Discontents
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
A Distant Mirror: 14th C. Lit
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Posthumanism
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Italy & English Drama
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Birth of Terrorism
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
ComparativeEd:Finland & the US
Covers topics of immediate or special interest to a faculty member and students.

ENG 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.
ENG 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

ENG 500 Research Methods

Course on research methods in a specific discipline.

ENG 501 Approaches to Research

Research Methods in Literature
Theories, methods and/or methodologies as well as qualitative and/or quantitative approaches to the specific discipline. Familiarizes students with the areas of research.

ENG 501 Approaches to Research

English Studies
Theories, methods and/or methodologies as well as qualitative and/or quantitative approaches to the specific discipline. Familiarizes students with the areas of research.

ENG 502 Contemporary Critical Theories

Contemporary Literary Theory
Studies the principles and techniques of contemporary theory and criticism.

ENG 502 Contemporary Critical Theories

Studies the principles and techniques of contemporary theory and criticism.

ENG 504 Cross-Cultural Studies

Spies and Detection
Theoretical and analytical issues for comparative research across distinct cultural regions and traditions.
ENG 504 Cross-Cultural Studies
Theoretical and analytical issues for comparative research across distinct cultural regions and traditions.

ENG 504 Cross-Cultural Studies
Posthumanism
Theoretical and analytical issues for comparative research across distinct cultural regions and traditions.

ENG 507 Methods/Issues Teaching Comp
Up-to-date theory, practice, and implementation of secondary writing instruction.

ENG 534 Studies in Renaissance Lit
Shakespeare
Selected topics and literary works studied in the contexts of English Renaissance culture.

ENG 535 Study 18/19th Cent Britsh Lit
Studies in Jane Austen
Selected topics, issues, figures, and genres in British literature and culture of the 18th and 19th centuries.

ENG 535 Study 18/19th Cent British Lit
Selected topics, issues, figures, and genres in British literature and culture of the 18th and 19th centuries.

ENG 536 Study Amer Lit before 1900
American Captivities
Selected topics, issues, figures, and genres in 17th-, 18th-, and 19th-century American literature, including the literature of conquest and contact.

ENG 536 Study Amer Lit before 1900
Literatures of Captivity
Selected topics, issues, figures, and genres in 17th-, 18th-, and 19th-century American literature, including the literature of conquest and contact.
ENG 536 Study Amer Lit before 1900
The 19th C. American Novel
Selected topics, issues, figures, and genres in 17th-, 18th-, and 19th-century American literature, including the literature of conquest and contact.

ENG 539 Studies Mod/Postmod Lit/Theory
Yeats and Irish Revival
Selected topics in Modernist and Postmodernist studies. May include literary and theoretical texts.

ENG 540 Tchng Young Adult Literature
Issues and new approaches in teaching contemporary literature in high school.

ENG 551 Rhetorical Traditions
Examines rhetorical traditions spanning ancient to contemporary rhetorics.

ENG 551 Rhetorical Traditions
Classical Rhetorics
Examines rhetorical traditions spanning ancient to contemporary rhetorics.

ENG 551 Rhetorical Traditions
African-American Rhetoric
Examines rhetorical traditions spanning ancient to contemporary rhetorics.

ENG 556 Theories of Literacy
Examines various theories of literacy, their embedded values and assumptions, and their influences on academic scholarship and pedagogy.
ENG 557 CALL

Explores the field of computer-assisted language learning. Traces the development of computer-assisted language learning (CALL) over the last three decades. Focuses on research that explores how computer technology can help facilitate second language development; relies primarily on empirical data to do so. Examine established as well as new research methods in CALL. Participants participate in one research study and apply theoretical and practical aspects of CALL in these projects.

ENG 560 Genre Studies

Critical analysis and study of works from a single genre or comparative analysis and study of multiple genres.

ENG 560 Genre Studies
Magical Realism as Global Genre
Critical analysis and study of works from a single genre or comparative analysis and study of multiple genres.

ENG 560 Genre Studies
English Drama 1660-1789
Critical analysis and study of works from a single genre or comparative analysis and study of multiple genres.

ENG 584 Internship
Prison Teaching
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 584 Internship
Pen Project Prison Teaching
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ENG 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
ENG 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

ENG 597 Graduate Capstone Seminar

The capstone seminar is required for graduate students who must complete a culminating experience for a degree or certificate program.

ENG 598 Special Topics
The Afterlives of Beowulf
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ENG 598 Special Topics
14C. English Lit & Discontents
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ENG 598 Special Topics
Shakespeare and Age of Empire
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ENG 598 Special Topics
Digital Literacies
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
ENG 598 Special Topics
Italy & English Drama
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ENG 598 Special Topics
Rock & Roll & Martin Luther King
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ENG 639 Adv Studies Modernism/Postmod
W.B. Yeats & Irish Studies
Seminar courses on topics in Modernist and Postmodernist studies. May include literary and theoretical texts.

FAS 101 Personal Growth Human Relations

Personal development and behavior as related to competency in interpersonal relationships with the family. Processes of family interaction.

FAS 264 Gender and Society

Analysis of the development, nature, and consequences of gender in contemporary society.

FAS 294 Special Topics
Cultivating Compassion
Covers topics of immediate or special interest to a faculty member and students.

FAS 294 Special Topics
Embracing Empathy
Covers topics of immediate or special interest to a faculty member and students.
FAS 301 Introduction to Parenting

Integrated approach to understanding parenting and parent-child interactions.

FAS 324 Work and the Workplace

Historical and comparative examination of changes in the structure and meaning of work and current shifts in people’s work lives.

FAS 331 Marriage/Family Relationships

Issues, challenges, and opportunities relating to present-day marriage and family living. Factors influencing interrelations within the family.

FAS 332 Human Sexuality

Relationship of sexuality to family life and to major societal issues. Emphasizes developing healthy, positive, and responsive ways of integrating sexual and other aspects of human living.

FAS 361 Research Methods

Methods of social science research, including the fundamental assumptions underlying research, critique, research design, data collection, and data analysis.

FAS 370 Family Ethnic & Cultural Diver

Integrative approach to understanding historical and current issues related to the structure and internal dynamics of diverse American families.

FAS 390 Supervised Research Experience

Practical, firsthand experience within current faculty research projects in family studies or child development. Y grade only; may be repeated for total of 6 hours.
FAS 435 Adv Marriage/Family Reltnshps

In-depth examination of research, issues, and trends relating to marriage and family interaction.

FAS 440 Fund Marriage/Family Therapy

Introduces the fundamental orientations of marriage and family therapy.

FAS 460 Leadership and Change

Advanced understanding of leadership and the development of proposals for innovative plans that enhance the well-being of children, youth and families.

FAS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

FAS 498 Pro-Seminar
Perspectives on Caring and Com
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

FAS 498 Pro-Seminar
Soc & Fam Dyn Through Wonder
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

FAS 498 Pro-Seminar
Soc & Fam Dyn Through Wonder
Small-group study and research for advanced students within their majors.
FAS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

FAS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

FAS 500 Research Methods

Course on research methods in a specific discipline.

FAS 586 Capstone I

Professional exploration and goal specification for non-thesis capstone project.

FAS 587 Capstone II

Develops professional expertise and area of focused interest.

FAS 588 Capstone III

Applies developed expertise and knowledge to professional goal.

FAS 591 Seminar

Infant/Toddler Development

A small class emphasizing discussion, presentations by students, and written research papers.
FAS 591 Seminar
Adolescent Development
A small class emphasizing discussion, presentations by students, and written research papers.

FAS 591 Seminar
Aging
A small class emphasizing discussion, presentations by students, and written research papers.

FAS 592 Research
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

FAS 593 Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

FAS 595 Continuing Registration
Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

FAS 598 Special Topics
Statistics for Social Sciences
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
FAS 598 Special Topics
Perspectives-Marriage & Family
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FAS 598 Special Topics
Diversity and Society
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FAS 598 Special Topics
Deviance
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FAS 598 Special Topics
Child Life Practice I
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FAS 598 Special Topics
Child Life Practice II
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FAS 598 Special Topics
Leadership & Social Justice
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
FAS 598 Special Topics
Marriage & Family Relationships
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FAS 598 Special Topics
Diversity
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FAS 598 Special Topics
Parenting
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FMS 100 Introduction to Film
Introduces the narrative structure, visual style, and cultural elements of film. Fee.

FMS 110 Introduction to New Media
Explores the cultural effects of new media technologies.

FMS 200 Film History
Introduces the technological, aesthetic, social, and economic aspects of international film history.
FMS 200 Film History

Introduces the technological, aesthetic, social, and economic aspects of international film history.

FMS 209 Screenwriting Funamentals-online

Studies the creativity and the technique of screenwriting for the conventional narrative film and for TV; student writing exercises culminate in a script for micro cinema.

FMS 209 Screenwriting Funamentals-online

Studies the creativity and the technique of screenwriting for the conventional narrative film and for TV; student writing exercises culminate in a script for micro cinema.

FMS 209 Screenwriting Funamentals

Studies the creativity and the technique of screenwriting for the conventional narrative film and for TV; student writing exercises culminate in a script for micro cinema.

FMS 270 Race & Gender in American Film

Explores how Hollywood shapes perceptions of race and gender in American society. Fee.

FMS 270 Race & Gender in American Film

Explores how Hollywood shapes perceptions of race and gender in American society.

FMS 300 Television & Cultural Studies

Applies cultural studies theory and method to the study of American television history.

FMS 300 Television & Cultural Studies

Applies cultural studies theory and method to the study of American television history.
FMS 309 Intermediate Screenwriting

Utilizing the elements of storytelling, students develop and write a treatment and the first act of a screenplay.

FMS 309 Intermediate Screenwriting

Utilizing the elements of storytelling, students develop and write a treatment and the first act of a screenplay.

FMS 340 Contemp Amer Film/Pop Culture

Analyzes American films, television programs, and music as popular cultural documents.

FMS 351 Emerging Digital Media

Analyzes modern cultural and digital technologies.

FMS 374 American Visions
Francis Ford Coppola
In-depth examination of the career of an innovator in media, whether a producer, director, or scriptwriter, through his/her status as a unique storyteller of the American experience.

FMS 380 Race and Gender in Am Film

Critical analysis of how film shapes perceptions of race and gender in American society.

FMS 394 Special Topics
Documentary
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Adolescent Film
Covers topics of immediate or special interest to a faculty member and students.
FMS 394 Special Topics
Films of Coppola
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Hollywood Musical
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Intro to Documentary Writing
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Teen Film
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Screenwriting for Television
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Writing for Video Games
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Screenwriting Wkshp:Adaptation
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Writing the Web Series
Covers topics of immediate or special interest to a faculty member and students.
FMS 394 Special Topics
Screenwriting for TV Part 1
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
AZ Identity in Western Films
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Sci Fi Cinema: Tech, Genre, Cult
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
International Cinema
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Screenwriting for Games
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Horror Films
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Star Wars Universe
Covers topics of immediate or special interest to a faculty member and students.

FMS 394 Special Topics
Video Games and Narrative
Covers topics of immediate or special interest to a faculty member and students.
FMS 409 Advanced Screenwriting

Utilizing the elements of storytelling, students outline, develop, and write a feature-length screenplay.

FMS 423 Mafia and Film

Through an analysis of historical, anthropological, literary, political and cinematic texts, explores representations of the Italian organized crime in Italian and American films from the early 20th century to today. Discovers different “Mafias” originating in Italy, but whose reach extends much further, such as the Cosa Nostra in Sicily, the Camorra in Naples, and the ‘Ndrangheta in Calabria. Examines the fiction, stereotypes, myths and legends surrounding the mafia through a scrupulous analysis of some of the most important American and Italian films portraying mafia culture. Italians have used the medium of film to address the issue of the mafia, raising awareness about the harsh reality of life in the mafia and the ways in which it reaches into every aspect of Italian politics and society. Explores how Italian mafia films subvert international fascination with the mafioso by disrupting the glamorized myths that are mainly perpetuated by American popular cinema.

FMS 427 Identity and World Film

Examines how films around the world represent gender, race, ethnicity, and sexual orientation through the lens of genres and their variations and how genres reinforce or critique stereotypes.

FMS 441 Global Cinema
Post-War Italian Cinema

Examines how film represents three important dimensions of globalization: its relationship to national culture, terrorism, and immigration.
FMS 441 Global Cinema

Examines how film represents three important dimensions of globalization: its relationship to national culture, terrorism, and immigration.

FMS 450 Technology, Culture, and Media

Studies the socio-political relationships among technology, culture, and media.

FMS 468 Crime & Violence American Film

Addresses three primary aspects of crime and violence in film: representation, societal attitudes, effects on audience.

FMS 471 Latinos In Hollywood

Studies representations of Latinos in film; stereotyping, politics of metaphor, allegory, star discourse, self-representation, resistance, and independent film.

FMS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

FMS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

FMS 494 Special Topics
Screenwriting Workshop
Covers topics of immediate or special interest to a faculty member and students.

FMS 494 Special Topics
Identity and World Film
Covers topics of immediate or special interest to a faculty member and students.
FMS 494 Special Topics
Women Filmmakers
Covers topics of immediate or special interest to a faculty member and students.

FMS 494 Special Topics
Story Analysis for Film and TV
Covers topics of immediate or special interest to a faculty member and students.

FMS 494 Special Topics
Filmmaking in Rome
Covers topics of immediate or special interest to a faculty member and students.

FMS 494 Special Topics
Latino/a TV & Digital Culture
Covers topics of immediate or special interest to a faculty member and students.

FMS 494 Special Topics
Mafia and Films
Covers topics of immediate or special interest to a faculty member and students.

FMS 494 Special Topics
Screenwriting for Television Pt2
Covers topics of immediate or special interest to a faculty member and students.

FMS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.
FMS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

FMS 502 Hollywood Film Historiography

This course is offered online only. Explores historiographic and critical scholarship on Hollywood as an industrial, cultural, and aesthetic enterprise.

FMS 507 Crime & Violence American Film

This course is available online only. Focuses on historiographic and critical scholarship on three aspects of crime and violence in American film: (1) regulation and censorship; (2) representation and society; and (3) theories about the effects on audiences of viewing crime and violence in films.

FMS 508 Race & Gender in American Film

Investigates the diverse ways in which race and gender are represented in American film history and culture. In a broader context, also analyzes how the meaning of race and gender, and their intersectionality, has shifted and changed across time and space, and how cinema has contributed to these shifts. Gives attention to the relationships among visual style, narrative structure, generic convention and identity. Students become more literate about the power of film to reflect and refract ideologies of race and gender, and to analyze how these identities impact the experiences of individuals and groups in our society.

FMS 511 Fund Cinema Telev Narr Online

Studies the creativity and the technique of screenwriting for the conventional narrative film and for television. Student writing exercises culminate in a script for micro-cinema. Seminar. Pre-requisite: online student in MAS American Media and Popular Culture
FMS 512 Inter Cinema & Tv Narrative

Focuses on the feature-length screenplay; students complete the first act and treatment of an original feature.

FMS 520 Cultr Hst US TV:Theory & Mthd

Engages both the theory and methods of cultural studies as implemented in television studies and U.S. television history (from the 1940s to the present).

FMS 520 Cultr Hst US TV:Theory & Mthd

Engages both the theory and methods of cultural studies as implemented in television studies and U.S. television history (from the 1940s to the present).

FMS 522 Los Angeles: Movies & Culture

Focuses on historiographic and critical scholarship of industry, genre and representation in post-war, self-reflexive Hollywood cinema.

FMS 523 Film Authorship

The Musical

Explores the notion of authorship in film, television, and digital media by engaging with a number of critical methodologies such as auteurism, structuralism, post-structuralism, feminism.

FMS 523 Film Authorship

Coppola

Explores the notion of authorship in film, television, and digital media by engaging with a number of critical methodologies such as auteurism, structuralism, post-structuralism, feminism.

FMS 523 Film Authorship

Explores the notion of authorship in film, television, and digital media by engaging with a number of critical methodologies such as auteurism, structuralism, post-structuralism, feminism.
FMS 527 Identity and World Film

Examines how films around the world represent gender, race, ethnicity, and sexual orientation through the lens of genres and their variations and how genres reinforce or critiques stereotypes.

FMS 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

FMS 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

FMS 598 Special Topics
US Media Now
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FMS 598 Special Topics
Identity and World Film
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
FMS 598 Special Topics
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FMS 598 Special Topics
Baseball Films
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FMS 598 Special Topics
Story Analysis
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FMS 598 Special Topics
Race & Gender in American Film
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FMS 598 Special Topics
Writing for Television
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

FMS 598 Special Topics
Comedy as Social Discourse
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
FMS 598 Special Topics
Film & TV Genres: Sci-Fi
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FMS 598 Special Topics
Media Stardom and Celebrity
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

FRE 101 Elementary French

Intensive aural/oral drill in class and lab; basic grammar supplemented by simple prose readings.

FRE 101 Elementary French I

Introduces the French language and culture through a variety of topics from everyday life. Focuses on the development on all four communicative: listening, speaking, reading and writing.

FRE 102 Elementary French

Intensive aural/oral drill in class and lab; basic grammar supplemented by simple prose readings.

FRE 102 Elementary French II

Introduces the French language and culture through a variety of topics from everyday life. Focuses on the development on all four communicative: listening, speaking, reading and writing.

FRE 194 Special Topics
Gateway to French
Covers topics of immediate or special interest to a faculty member and students.
FRE 194 Special Topics
Québécois Culture & Language I
Covers topics of immediate or special interest to a faculty member and students.

FRE 194 Special Topics
French Language
Covers topics of immediate or special interest to a faculty member and students.

FRE 201 Intermediate French I
Grammar review, with emphasis on development of skills of speaking, reading, writing, and listening comprehension. fee

FRE 202 Intermediate French II
Continuation of grammar review with emphasis on development of skills in speaking, reading, writing, and listening comprehension. fee

FRE 294 Special Topics
Québécois Culture & Language II
Covers topics of immediate or special interest to a faculty member and students.

FRE 294 Special Topics
French Language
Covers topics of immediate or special interest to a faculty member and students.
FRE 311 Oral and Written Expression I

Practices interpersonal and interpretive writing and speaking, emphasizing current usage and promoting facility in the expression of ideas.

FRE 394 Special Topics
French Language - Advanced II
Covers topics of immediate or special interest to a faculty member and students.

FRE 394 Special Topics
French Language - Advanced I
Covers topics of immediate or special interest to a faculty member and students.

FRE 394 Special Topics
French Language
Covers topics of immediate or special interest to a faculty member and students.

FRE 394 Special Topics
Québécois Culture & Language III
Covers topics of immediate or special interest to a faculty member and students.

FRE 394 Special Topics
French Language and Culture
Covers topics of immediate or special interest to a faculty member and students.

FRE 411 Advanced Spoken French

Improvement of spoken French.
FRE 550 French for Reading Knowledge

Teaches non-speakers of foreign language, or those with only basic notions of the language, how to read in a foreign language at an advanced level. Consists of a concise overview of grammar as well as reading comprehension practice for students who plan to take the Graduate Foreign Language Exam or others who would merely like to learn to read in a foreign language. Focuses only on reading and not on listening, speaking or writing as in a traditional language course.

GCU 102 Introduction Human Geography

Systematic study of human use of the Earth. Spatial organization of economic, social, political, and perceptual environments.

GCU 113 US and AZ Social Studies

Introduction to the United States and Arizona from the integrated social science perspectives of history, geography, and government.

GCU 121 World Geography

Description and analysis of areal variations in social, economic, and political phenomena in major world regions.

GCU 322 Geography of U.S. and Canada

Spatial distribution of relevant physical, economic, and cultural phenomena in the United States and Canada.

GCU 325 Geography of Europe

Broad and systematic overview of Europe, emphasizing physical, economic, and cultural phenomena.

GCU 328 Geography Middle East/N Africa

Spatial distribution of relevant physical, economic, and cultural phenomena in the Middle East and North Africa.
GCU 332 Geography of Australia/Oceania

Spatial distribution of relevant physical, economic, and cultural phenomena in Australia, New Zealand, and Pacific Islands.

GCU 350 The Geography of World Crises

Contemporary world crises viewed from a perspective of geographic concepts and techniques.

GCU 351 Population Geography

Demographic patterns; spatial, temporal, and structural investigation of the relationship of demographic variables to cultural, economic, and environmental factors.

GCU 394 Special Topics
JrnyStories:People&PlaceInMotn
Covers topics of immediate or special interest to a faculty member and students.

GCU 421 Geography Arizona/SW U.S.

Geography of the Southwest with an emphasis on Arizona. Divided into physical geography, history, people, and economy.

GCU 426 Geography Russia/Surroundings

Examines the geography of Russia and other post-Soviet states.

GCU 432 Geography of China

Examines the physical, economic, cultural, social, demographic, agricultural, political, historical, and environmental aspects of the geography of China.

GCU 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
GCU 496 Geographic Research Methods

Scientific techniques used in geographic research.

GCU 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

GER 101 Elementary German

Reading, writing, speaking, and understanding of basic German, with emphasis on pronunciation and grammar.

GER 101 Elementary German I

Reading, writing, speaking, and understanding of basic German, with emphasis on pronunciation and grammar.

GER 102 Elementary German

Reading, writing, speaking, and understanding of basic German, with emphasis on pronunciation and grammar.

GER 102 Elementary German II

Reading, writing, speaking, and understanding of basic German, with emphasis on pronunciation and grammar.

GER 194 Special Topics
Autobahn-Zeppelin: Germany A-Z
Covers topics of immediate or special interest to a faculty member and students.
GER 194 Special Topics
German I
Covers topics of immediate or special interest to a faculty member and students.

GER 294 Special Topics
German Literature
Covers topics of immediate or special interest to a faculty member and students.

GER 294 Special Topics
German Language Training B2
Covers topics of immediate or special interest to a faculty member and students.

GER 294 Special Topics
Schreiben im Studium (AcaWrit)
Covers topics of immediate or special interest to a faculty member and students.

GER 294 Special Topics
Speech: International Students
Covers topics of immediate or special interest to a faculty member and students.

GER 294 Special Topics
Intermediate German
Covers topics of immediate or special interest to a faculty member and students.

GER 310 Advanced German Grammar
Intensive, contextualized advanced German grammar.

GER 310 Adv German Grammar & Comp I
Intensive, contextualized advanced German grammar and intensive practice in writing, emphasizing covered style and grammar.
GER 311 German Conversation

Expansion of idiom through oral practice dealing with contemporary articles, essays and stories.

GER 313 German Composition

Intensive practice in writing, emphasizing style and grammar.

GER 313 Adv German Grammar & Comp II

Intensive, contextualized advanced German grammar and intensive practice in writing, emphasizing covered style and grammar.

GER 441 Fairy Tales

Foundational fairy tale texts collected by the Brothers Grimm and written by Hans Christian Andersen and their modern permutations reflect basic human desires, fears and aspirations as well as the values of the period in which they are written. These stories and their variants in popular culture across the globe permit students to reflect critically on the functions of fairy tales in both past and present civilizations. Students perceive the ways in which ancient tales can be utilized for various purposes and understand the contemporary theoretical debate on the study of fairy tales and their role in popular culture. Course taught in English.

GER 550 German for Reading Knowledge

Teaches non-speakers of foreign language, or those with only basic notions of the language, how to read in a foreign language at an advanced level. Consists of a concise overview of grammar as well as reading comprehension practice for students who plan to take the Graduate Foreign Language Exam or others who would merely like to learn to read in a foreign language. Focuses only on reading and not on listening, speaking, or writing as in a traditional language course.
GIS 205 Geographic Info Technologies

Introduces modern geographic information technologies, including cartography, GIS, remote sensing, global positioning systems, and statistical analyses.

GIS 205 Geographic Info Science I

Introduces modern geographic information technologies, including cartography, GIS, remote sensing, global positioning systems, and statistical analyses.

GIS 205 Geographic Info Science I

Introduces spatial thinking, a cross-disciplinary foundation for geographic information science (the science of dealing with spatial/geographical data; their manipulation, interpretation and use in problem solving); geospatial technologies (the specific technologies underpinning geographic information science); and spatial analysis (the science of solving spatial problems).

GIS 211 Geographic Info Science I

History and basic aspects of GIS including map and data file structure, conversions, and synthesis with a computerized environment.

GIS 211 Geographic Info Science II

History and basic aspects of GIS including map and data file structure, conversions, and synthesis with a computerized environment.

GIS 222 Programming Principles GIS I

Basic principles of programming for GIS in python covering data processing, analysis, and application development.

GIS 270 Stats for Geography & Planning

Descriptive and inferential statistical methods for analysis of data in geographical sciences and urban planning.
GIS 294 Special Topics
Observing Earth from Above
Covers topics of immediate or special interest to a faculty member and students.

GIS 311 Geographic Info Science II
GIS as a basis for microcomputer spatial analysis and synthesis. Includes digitizing, database organization, spatial retrieval, and graphics.

GIS 311 Geographic Info Science III
GIS as a basis for microcomputer spatial analysis and synthesis. Includes digitizing, database organization, spatial retrieval, and graphics.

GIS 322 Programming Principles GIS II
Fundamental data structures and algorithms for the integration, management, processing and analysis of geographically referenced data.

GIS 341 Intro Cartography/Georepresent
Study and creation of maps. Fundamental mapping principles (projection, scale, generalization, symbolization) and computer-based cartographic production.

GIS 341 Cartography&Georepresentation
Study and creation of maps. Fundamental mapping principles (projection, scale, generalization, symbolization) and computer-based cartographic production.

GIS 470 Statistics for Geographers
Statistical techniques applied to the analysis of spatial distributions and relationships. Introduces models and theory in geography.
GIS 470 Adv Stats Geography & Planning

Statistical techniques applied to the analysis of distributions and relationships. Introduces models and theory in geography.

GIS 471 Spatial Stats Geog & Planning

Basics of spatial data analysis. Topics include point pattern analysis, spatial autocorrelation, spatial regression, and kriging.

GIS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GIS 494 Special Topics
Geodesign and Urban Planning
Covers topics of immediate or special interest to a faculty member and students.

GIS 494 Special Topics
GIS and Public Health
Covers topics of immediate or special interest to a faculty member and students.

GIS 494 Special Topics
GIS Methods for Non-Majors
Covers topics of immediate or special interest to a faculty member and students.

GIS 498 Pro-Seminar

Small-group study and research for advanced students within their majors.
GIS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

GLG 101 Intro to Geology I (Physical)

Basic principles of geology, geochemistry, and geophysics. Rocks, minerals, weathering, earthquakes, mountain building, volcanoes, water, and glaciers. Students must complete both GLG 101 and GLG 103 to receive an SQ (general studies).

GLG 102 Intro Geology II (Historical)

Basic principles of applied geology and the use of these principles in the interpretation of geologic history. Both GLG 102 and 104 must be taken to secure SG General Studies credit.

GLG 103 Introduction to Geology I-Lab

3 hours lab, some field trips. Fee. Both GLG 101 and 103 must be taken to secure SQ General Studies credit.
GLG 104 Introduction to Geology II-Lab

Lab techniques involving map interpretation, cross sections, and fossils. Both GLG 102 and 104 must be taken to secure SG general Studies credit.

GLG 106 Habitable Worlds

Are we alone in the Universe? If so, why? If not, where are our cosmic cousins? Such questions, once the domain of science fiction, are on the verge of being answered with science facts. Astronomers are discovering planets around other stars. Planetary scientists are exploring the worlds in our solar system. Biologists are unlocking the secrets of metabolism and evolution. Geoscientists are determining how the Earth supports life. And as we struggle to build a sustainable future for ourselves, all of us are finding out how technologically advanced civilizations rise and how they might fall. This course surveys these topics. In the process, students master basic concepts from across the major areas of science and learn what makes the Earth a habitable world.

GLG 110 Dangerous World

Geological studies as they apply to interactions between humans and Earth. Includes geological processes and hazards, resources, and global change. Both GLG 110 and 111 must be taken to secure SG General Studies credit.

GLG 394 Special Topics
Geo Hazards of Mediterranean
Covers topics of immediate or special interest to a faculty member and students.

GPH 111 Intro to Physical Geography

Spatial and functional relationships among climates, landforms, soils, water, and plants.
GPH 111 Intro to Physical Geography

Spatial and functional relationships among climates, landforms, soils, water, and plants. Both GPH 111 and GPH 112 must be taken to secure SQ General Studies credit.

GPH 112 Intro to Phys Geography Lab

Includes some local or virtual field trips. Both GPH 111 and GPH 112 must be taken to secure SQ General Studies credit.

GPH 210 Society and Environment

Examines the interaction among social processes, key environmental issues, and nature's role as a resource at global and regional scales.

GPH 211 Landform Processes

Laboratory science class on earth-surface processes, with exercises emphasizing how erosion, transportation, and deposition modifies landforms.

GPH 267 Extreme Weather

Introductory survey of extreme weather and climate processes and the often disastrous consequences at the intersection of human operations.

GPH 314 Global Change

Response of Earth's natural systems (atmosphere, hydrosphere, lithosphere, biosphere) to past environmental change, and effects of potential future changes.

GPH 381 Geography of Natural Resources

Nature and distribution of natural resources and the problems and principles associated with their use.
GPH 414 Climate Change

Surveys three climate research areas: paleoclimatology, theories (e.g., greenhouse warming), numerical modeling.

GPH 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

GPH 494 Special Topics
Global Regional Climate
Covers topics of immediate or special interest to a faculty member and students.

GPH 494 Special Topics
Arizona Landscapes
Covers topics of immediate or special interest to a faculty member and students.

GRK 140 Grk&Lat Roots Biosctfc Trmnlgy

Introduces students to the ancient Greek and Latin root words most commonly used in biological, medical, and other scientific terminology, and gives practice identifying them in context. The knowledge of these root words enables students to memorize with greater ease and increased retention the bioscientific terminology they encounter in other coursework as well as in their medical or scientific profession.

GRK 223 Intro to Greek & Roman Myth

Familiarizes students with the characters and events of ancient Greek and Roman myths through their literary manifestations, and moves beyond mere narrative to consider the possible interpretations and functions of these myths, thus revealing the central concerns of ancient society and giving insights into the working of our own society and its literary and artistic traditions.
GSC 501 War, Conflict and Security

Explores the rapidly changing and highly complex geopolitical, technological and strategic context within which modern conflict and war occur. Introduces the profound social, political, economic and cultural implications of the changing nature of war and conflict. Provides an overview of the historical background of war and conflict, and some of the classic philosophical and military-strategic theories and conceptions of war. Introduces the institutional framework, the Westphalian state-based system of modern international law and relations, within which much of the theory and practice of modern conflict and war has developed.

GSC 502 Security Studies

Continues the exploration of the rapidly changing and highly complex geopolitical, technological and strategic context within which modern conflict and war occur; the profound social, political, economic and cultural implications of the changing nature of war and conflict. Provides an overview of several fundamental themes that run through the history of war and strategy, and discusses the increasing importance of nonmilitary “soft power” in managing conflict situations. Also introduces the importance of regional knowledge in conflict as a critical operational competence (using the Russian invasion of Crimea and Ukraine as a case study), as well as the broader challenges of civilizational conflict and the importance of identity and narrative in modern conflict.
GSC 503 Future of War

Provides an overview of key issues, themes and ideas associated with the future of war. Contextualizes this discussion with a reflection on the impact of 9/11, especially within the U.S. Engages a number of core concepts, including the meaning, nature and experience of war including theories that violence is in decline. Also considers the changing impact of new wars on civilians, shifts in current and future technology and future scenarios including questions of climate change, global demographics and potential major power conflicts. Links the ideas, theories and understandings of the future of war with specific cases and concrete examples.

GSC 504 Understanding Conflict and War

Provides a critical overview of different definitions and meanings of war and armed conflict. Engages key theories used to understand conflict including realism, neorealism, liberalism and constructivism. Considers core issues in the field, linking empirical studies with explanations for what drives, sustains and resolves conflict including reviewing the fact that democratic states tend not to go to war with each other (the democratic peace); the structure and logic of arms races; escalation and alliance; and core ideas regarding peace, conflict management and conflict resolution. Many of the issues and theories reviewed in this class are linked with case studies and concrete examples.
GSC 505 Law of War

Provides an overview of key elements of the law of war, also known as international humanitarian law (IHL) and the law of armed conflict (LOAC). Engages basic questions of international law, reviewing its history, sources and structure. Covers jus ad Bellum, the rules governing how states legally go to war as well as jus in bello, the established ideas regarding how to manage actions during armed conflict. Covers key principles within the law of war, including distinction, proportionality and necessity as well as reviewing the differences between international and noninternational armed conflicts and other key ideas. Reviews the systems through which the law of war is enforced and also considers basic theoretical and practical issues regarding compliance. In general, links the ideas, practices, rules and understandings of the law of war with specific cases and concrete examples.

GSC 506 U.S. Politics of Security

Builds a foundational understanding of the complex system of formal and informal actors and structural forces that shape U.S. security policy. Starts with both theoretical and case study examinations of the role domestic politics plays in the production of policy decisions. Analyzes critical institutional actors and relationships between actors, including: the President and Congress, the National Security Council and interagency, and the civilian-military relationship. Finally, investigates key structural forces placed on the policy-making process by the American society, and the relationship between policymakers and the public.
GSC 507 Global Politics of Security

Offers several approaches to understanding the global politics of security, including: the structure of international and multinational security institutions and actors including nongovernmental organizations (NGOs), the United Nations' Security Council, peacekeeping missions, regional organizations (NATO, EU, Inter-American System, ASEAN) and others. Also considers the roles of private military and intelligence contractors and corporations working on issues of direct and indirect relation to security issues. Through specific case studies and examples, reviews the operation of these bodies and their complex relationships.

GSC 508 Comparative Studies of Conflict

Provides a critical overview of key theories on the causes, justifications and structures of political conflict and the use of violence. Begins by outlining core issues within the problem of social order, that is, how to think about managing governance and power. Reviews the idea of “collective action” and its link with force and violence, ideas that are contrasted with nonviolence as a political strategy. Then considers civil wars and interstate wars, comparing these forms of organized violence, as well as the current challenges of armed nonstate actors (within an international system premised on states) and an overview of the meaning of peace. Links the issues and theories reviewed in this class with case studies and concrete examples as a means of linking key ideas with their practical and policy implications.

GSC 509 Emerging Technologies

Provides an introduction to the implications of accelerating changes in military and security technologies, fueled by rapid developments in five core technology systems: nanotechnology, biotechnology, information and communications technology (ICT), robotics and applied cognitive science. Also introduces the idea of revolutions in military affairs, a concept that has been used to frame discussions about the strategic implications of new technologies from drones to cyber.
GSC 510 Governance Conflict/Transition

One of the most pressing current global security policy issues involves understanding and implementing strategies, mechanisms and processes to address post-conflict and transitional contexts. How do societies create and manage representational governance after the fall of authoritarian regimes? How can institutions be rebuilt and reconstituted? How can a social order address the justice demands of victims of brutal political violence whose suffering was often a key element of prior systems of rule? Provides a critical introduction to the field of post-conflict reconstruction and transitional justice. Reviews the tense and uncertain nature of post-conflict environments and their challenges, engages the security questions raised by peacekeeping and stability operations. Also considers the difficulties of governance and reconstruction in the aftermath of conflict.

GSC 511 Terrorism and Insurgency

Provides a critical overview of the use of terror by governments, insurgents and other nonstate actors. Engages the definition of terrorism and provides an overview of key practices and strategies. Reviews key theories as to the causes, meaning and impact of the deployment of terror as a strategy by distinct groups. This involves a consideration of state terror, insurgencies and global terror networks. Links many of the core ideas reviewed in this class with a set of case studies designed to ground the broader discussion of terror within specific situations and contexts.

GSC 512 Global Trends

Provides an overview of a number of key issues within global politics in the post-Second World War era. Reviews important institutions, including the United Nations, the World Bank, the International Monetary Fund. Provides a critical review of key theories, discourses and practices of international development, decolonization, democratization, poverty and gender issues. Reviews these major aspects of global society in relationship to core questions of governance and social order with a consideration of past, present and future trends.
GSC 560 Overview of Cybersecurity

Provides an overview of key issues and ideas associated with cybersecurity. Each week presents a set of readings related to particular themes including: the principles of cybersecurity and the special challenges posed by an interconnected world; key elements of internet architecture; outline of cyberattacks and cyberdefense; public and private internet governance and protection; espionage; and an overview of cyberwar. Provides a general overview of questions and core concepts regarding the cyber domain, the nature and structure of the internet and how to understand the special risks, benefits, offensive and defensive elements of an increasingly interconnected world. Reviews a set of core theories, concepts and considerations to provide students who may have little background in the area and do not need any technical proficiency with a foundation for engaging the complex nature of cybersecurity and its rising significance for global security.

GSC 561 Cybersec Threats and Trends

Provides an overview of cybersecurity threats and trends. Each week presents a set of readings related to particular themes including: an overview of hacking and data breaches; special challenges and risks associated with protecting critical infrastructure on a state and federal level; and the complex, global threats posed by cybercrime. Also explores the risks associated with rapidly expanding social media and interconnectedness currently and into the future as well as providing an overview of key legal and ethical issues associated with cybersecurity policy. Provides a general overview of these issues in an effort to outline major issues regarding cybersecurity threats and how to best think about their impact on global security. Assists students in developing a strong conceptual foundation for engaging these issues and their broad policy implications.
GSC 562 Cybersec/Global Pol/Resiliency

Provides an overview of global cybersecurity preparation and resiliency. Because international cybersecurity threats change rapidly and because complete protection for most systems is impossible in an interconnected world, a significant amount of cyber policy focuses on improving mechanisms of preparation and enabling multiple forms of resiliency. The general idea is that attacks cannot be prevented or fully anticipated so creating more flexible, redundant and multi-faceted systems is a useful policy. Each week’s readings are related to themes including: understanding core vulnerabilities, types of attackers and targets, modes of deterrence and encryption systems and tools. Engages the special challenges raised by attribution and outlines how to conceptualize and ensure system resiliency. Provides a critical overview of central ideas, concepts and terminology for better engaging of cybersecurity preparation and resiliency as a key element of global security.

GSC 563 Cybersec Planning and Strategy

Provides an overview of cybersecurity planning and strategy. Since cybersecurity is a constantly evolving field, many aspects of planning are in a state of continual evolution. Many believe that broad-based, flexible strategies are necessary to enable key actors and institutions to engage in adequate policies to ensure general cybersecurity preparedness. Class themes include: an overview of key institutions and actors, central concepts of threat analysis, public and private cyberpolicy, and elements of international regulation. Also engages issues of cybersecurity strategy, the special challenges of non-state actors and ways to conceptualize and engage the future of cybersecurity. Reviews essential ideas and concepts, gains familiarity with key actors and institutions, and engages the complex interplay of governmental, intergovernmental, commercial and non-state actors engaged in cyber threats and protective action.
GSC 598 Special Topics
Cybersecurity & World Politics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GSC 598 Special Topics
Intell Issues Global Security
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GSC 598 Special Topics
Overview of Cybersecurity
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GSC 598 Special Topics
Strategy for Armed Conflict
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GSC 598 Special Topics
Narrative Conflict
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

GSC 598 Special Topics
Gender/Security/Armed Conflict
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
GSC 598 Special Topics
Urbanization/Security/Conflict
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GSC 598 Special Topics
Conflict Reporting
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GSC 598 Special Topics
Proxy Warfare
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GSC 598 Special Topics
Migration Environ&Gbl Security
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GSC 598 Special Topics
Human Rights & Armed Conflict
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GSC 598 Special Topics
Military Innov Since Cold War
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
GSC 598 Special Topics
Post-Soviet Geopolitics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HPS 331 History of Medicine


HPS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

HST 100 Global History to 1500

Surveys human origins; early civilizations in Africa and Eurasia; the ancient Mediterranean; the pre-Columbian Americas; the rise of Islam and Muslim empires; medieval Europe; the Indian subcontinent and imperial China, to 1500.

HST 101 Global History Since 1500

Surveys Africa, the Americas, and Eurasia; changes in communication, communities, demography, economics, environment, politics, religion, technology, warfare, and women.

HST 109 United States to 1865

Growth of the Republic from colonial times through the Civil War period.

HST 110 United States Since 1865

Growth of the Republic from the Civil War to the present.
HST 130 The Historian’s Craft

Introduces the ways historians ask questions and propose answers.

HST 240 Introduction to Southeast Asia

Interdisciplinary introduction to the cultures, religions, political systems, geography, and history of Southeast Asia.

HST 302 Studies in History

Gender and Sexuality in Islam
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 302 Studies in History

Mexico City 1968 Olympics
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 302 Studies in History

Ancient Law and Society
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 302 Studies in History

Energy and Sustainability
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 302 Studies in History

War and Political Thought
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.
HST 302 Studies in History
History of Olympic Movement
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 302 Studies in History
Liberty&Rev- Mod Eur&Americas
Specialized topics in history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 303 Studies in Asian History
Specialized topics in Asian history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 303 Studies in Asian History
Colonial Asia: Film & Politics
Specialized topics in Asian history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 303 Studies in Asian History
The British Empire in Asia
Specialized topics in Asian history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 303 Studies in Asian History
China,Japan&EA in World Hist
Specialized topics in Asian history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Europe in World His to 1715
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship. May be repeated for credit when topics vary.
HST 304 Studies in European History
Europe in World History since 1789
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship. May be repeated for credit when topics vary.

HST 304 Studies in European History
Witchcraft and Christianity
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship. May be repeated for credit when topics vary.

HST 304 Studies in European History
History, Culture, Art Ancient Italy
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Europe in World History to 1715
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.
HST 304 Studies in European History
Rockers/Rebels/Romantics
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Stalin to Putin via Film
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Europe in World His since 1789
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Stalin to Putin
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Crime & Punish Early Mod Europ
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Drinking Cultr Erly Mod Europe
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 304 Studies in European History
Stalinism: Soc & Cult 1924-53
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.
HST 304 Studies in European History
Thirty Years War, 1618-1648
Specialized topics in European history. Explores countries, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
Democracy and Its Discontents
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
American Cultural History
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
History of Deportation
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
Sports in US History
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
History of College Sports
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
Religion & Capitalism in Amer
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.
HST 306 Studies in US History
History of Baseball
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
Liberal Revolution
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
The U.S. Presidency
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
Civil War in Global Perspective
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
The Veteran Experience
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
The Civil Rights Movement
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 306 Studies in US History
History of the American West
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.
HST 306 Studies in US History
Debating American Liberty
Specialized topics in United States history. Explores regions, cultures, and issues in history, and their interpretation in historical scholarship.

HST 312 Hist of Women in Sci and Med

In-depth inquiry into the history of gender issues in Western science and medicine from Greco-Roman antiquity through the beginning of the 21st century.

HST 314 Am Cultural History Since 1865

Culture, including ideas, ideals, the arts, and social and economic standards, from the age of industrialism to modern U.S.

HST 318 History of Engineering

The history of engineering from the earliest record to modern times, examining the social, cultural, and economic effects on society.

HST 325 Immigration & Ethnicity in US

Origins, historical development, and future of a multiethnic society, 1492 to 2050.

HST 327 Women in US History 1600-1880

Historical discussion of American women of diverse racial, religious, and ethnic groups and classes; focuses on changing definitions of women’s roles.

HST 328 Women in US History, 1880-1980

Historical discussion of American women of diverse racial, religious, and ethnic groups and classes; focuses on changing definitions of women’s roles.
HST 330 Historical Thinking

Advanced examination of the ways historians ask questions and propose answers.

HST 332 Mexican Amer Hist Since 1900

Traces the formation of Mexican American communities across the rural and urban U.S. and examines 20th-century immigration from Mexico.

HST 337 Amer Indian History to 1900

Cultural, economic, political, and social continuity and change of American Indian communities to 1900.

HST 338 Amer Indian History since 1900

Cultural, economic, political, and social continuity and change of American Indian communities from 1900 to the present.

HST 339 Islam in the Modern World

Examines the worldwide transformations of Islamic religion, cultures, and societies in the modern period.

HST 340 American Military History

Studies the role of the military in American life during war and peace from colonial times to the present day.

HST 345 Environmental History

Examines the interaction between humans and the natural world in the United States from the late 19th century to the present.

HST 347 Ancient Greece I

Traces Greek History from its prehistoric beginnings through the Peloponnesian War (431-404 B.C.), with a special focus on the Archaic (ca. 800-480 B.C.) and Early Classical periods.
HST 361 Witchcraft & Heresy in Europe

Background, origins, and development of the Inquisition; persecution of women and marginal groups.

HST 364 Sex & Society in Mod Europe

Family life, sex roles, and marriage, and their relationship to political, economic, and social changes in modern Europe.

HST 372 Modern Middle East

Impact of the West and modernization upon Middle Eastern governments, religion, and society in the 19th and 20th centuries.

HST 372 Modern Middle East

In-depth examination of the effect of the West and modernization on Middle Eastern governments, religion, and society in the 19th and 20th centuries.

HST 379 History of College Sports

Student-controlled intercollegiate contests quickly transformed into big-time college sports by the early twentieth century, revolutionizing the sports industry in the United States as well as the landscape of higher education. The American college sports enterprise is unique; nowhere else in the world does a large, amateur, revenue-generating system of school sports exist. After an exploration of the origins of intercollegiate athletics and the creation of the modern National Collegiate Athletic Association, topics include integration, women's intercollegiate athletics, the big business of amateurism, and scandal. Video lectures, readings and films introduce students to these often controversial topics, grounding them in the historical record. Many of the current debates concerning college sports have been taking place for more than a century.
HST 391 Modern Southeast Asia

Vietnam, Laos, Cambodia, Thailand, Burma, Malaysia, Singapore, Brunei, Indonesia, and Philippines since 1750: imperialism, revolution, and independence.

HST 406 American Revolution/1763-1789

Causes, course, and consequences of the American Revolution culminating in the ratification of the Constitution.

HST 407 Early U.S. Republic/1789-1850

Political, social, economic, and cultural development of the United States from the Revolution to 1850.

HST 408 Civil War & Reconstruction

Explores the causes, conduct, and consequences of the American Civil War, concentrating on the years 1848 to 1877.

HST 413 Contemporary America

The United States from 1945 to the present.

HST 456 The Vietnam War

Intersection of American and Asian histories in Vietnam, viewed from as many sides as possible.

HST 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

HST 485 History in the Wild
Sci Tech & Progress in Museums

History outside of conventional academic texts and purposes. Students craft historical narratives in ways that engage an audience beyond the professor, present information in forms other than (but not excluding) writing, and identify and use sources found outside of archives.
HST 485 History in the Wild

History outside of conventional academic texts and purposes. Students craft historical narratives in ways that engage an audience beyond the professor, present information in forms other than (but not excluding) writing, and identify and use sources found outside of archives.

HST 494 Special Topics
Dracula: Between Myth & History
Covers topics of immediate or special interest to a faculty member and students.

HST 494 Special Topics
Jewish Culture In Central Eu
Covers topics of immediate or special interest to a faculty member and students.

HST 494 Special Topics
Soc/Cltr in Modern Europe
Covers topics of immediate or special interest to a faculty member and students.

HST 494 Special Topics
Shakes, New World & Age of Expl
Covers topics of immediate or special interest to a faculty member and students.

HST 494 Special Topics
Italy & English Drama
Covers topics of immediate or special interest to a faculty member and students.

HST 494 Special Topics
Distant Mirror: 14th Cen. Lit
Covers topics of immediate or special interest to a faculty member and students.
World War II Studies
Covers topics of immediate or special interest to a faculty member and students.

HST 494 Special Topics
Undergrad Research Experience
Covers topics of immediate or special interest to a faculty member and students.

HST 495 Methods of Historical Inquiry
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry
Witchcraft/Pre-Modern Europe
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry
Colonial America
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry
The Dawes Act, 1877-1934
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.
HST 495 Methods of Historical Inquiry  
20th Century Social Movement  
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry  
Social Movements of 1960s & 70s  
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry  
Soc Pol & Impact of Brit Imper  
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry  
Chinese Revolutions, 1911-1949  
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry  
WWI and American Homefront  
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.
HST 495 Methods of Historical Inquiry
American Experience in Vietnam
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry
US West after Lewis & Clark
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry
Century of Progress Expo 1933
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 495 Methods of Historical Inquiry
HST Gender/Sexuality in Islam
Capstone course in history as an academic discipline, including formulation of research questions, use of primary and secondary sources to evaluate, form and support historical arguments. Students draft and revise a scholarly research paper.

HST 498 Pro-Seminar
EUROPE: Europe and Africa
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

HST 498 Pro-Seminar
Africans in Europe
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.
HST 498 Pro-Seminar
The Atlantic World
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

HST 498 Pro-Seminar
WWI & America Home Front
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

HST 498 Pro-Seminar
Americans at War, 1861-1865
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

HST 498 Pro-Seminar
20th Century Social Movements
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

HST 498 Pro-Seminar
Witchcraft/Pre-Modern Europe
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

HST 502 Public History Methodology
Introduces historical research methodologies, techniques, and strategies used by public historians. Readings, short papers, and guest speakers. Required for students in the public history concentration.

HST 515 Studies in Historiography
Methods and theories of writers of history.
HST 580 Practicum
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Geogrphc Info Systms Hstorian
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Archives
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Making Sources Accessible
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Pro Experien (non Public-Hist)
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Comm Hist in Public Sphere
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Oral History Practice
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
HST 580 Practicum
Nonfiction Writing
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Genealogy
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 580 Practicum
Professional Experience
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

HST 590 Reading and Conference
Vietnam War
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

HST 590 Reading and Conference
American Revolution 1763-1789
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

HST 590 Reading and Conference
Witchcraft/Pre-Modern Europe
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.
HST 590 Reading and Conference
Gender in American History
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

HST 590 Reading and Conference
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

HST 591 Seminar
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Working in America
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Historic Preservation
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
The Dawes Act, 1877-1934
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Digital History
A small class emphasizing discussion, presentations by students, and written research papers.
HST 591 Seminar
Slavery and Human Trafficking
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Reading the Built Environment
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Teaching Global History
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Using GIS in Histor. Contexts
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Rsrch Comparative Colonialism
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Colonial America
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Civil War Era
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
The Global Cold War
A small class emphasizing discussion, presentations by students, and written research papers.
HST 591 Seminar
Business History Research Method
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Landscapes
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Global Environmental History
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Latin American History
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Gender History
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Global Monarchies
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Early American Republic
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Science and Technology
A small class emphasizing discussion, presentations by students, and written research papers.
HST 591 Seminar
Framing World War II
A small class emphasizing discussion, presentations by students, and written research papers.

HST 591 Seminar
Urban History
A small class emphasizing discussion, presentations by students, and written research papers.

HST 597 Capstone
Allows students to build a culminating experience that reflects the breadth and depth of their MA experience and to articulate the value of the degree to potential employers or admissions committee members.

HST 598 Special Topics
North American Core II
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
American Political History
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Historic Preservation Issues
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
HST 598 Special Topics
Race, Gender and Migration
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
North America to 1865 Core
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
American Core Post 1865
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Social/Cultural Identity 20th C
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Modern Europe
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Public History, Media & Memory
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
HST 598 Special Topics
Shakes, New World & Age of Expl
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Land/Identity/Power in Southwest
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Italy & English Drama
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Distant Mirror: 14th Cen. Lit
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Women in Modern American Hist.
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Hist. Perspec. Global Migration
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
HST 598 Special Topics
Public History Lab
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
African American History
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
The Sixties in America History
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
The Global Cold War
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Topics in African History
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

HST 598 Special Topics
Readings in the American West
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
HST 598 Special Topics
Readings in Early Amer History
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HST 598 Special Topics
Culture & History in Belize
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HST 598 Special Topics
Religion and Nationalism
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

HST 640 Historical Methods
Core readings course engages key historical monographs
focused on historical methods. Provides core content
knowledge and an understanding of debates and trends in
the field. Provides a basic understanding of existing literature
in the field. Develops ability to analyze historical methods and
develop scholarly historical arguments.

HST 641 North Am. History
Core readings course engages key historical monographs
focused on historical methods. Provides core content
knowledge and an understanding of debates and trends in
the field. Provides a basic understanding of existing literature
in the field. Develops ability to analyze historical methods and
develop scholarly historical arguments.
HST 641 North American History

Core readings course engages key historical monographs focused on historical methods. Provides core content knowledge and an understanding of debates and trends in the field. Provides a basic understanding of existing literature in the field. Develops ability to analyze historical methods and develop scholarly historical arguments.

HST 642 European History

Core readings course engages key historical monographs focused on European history. Provides core content knowledge and an understanding of debates and trends in the field. Provides a basic understanding of existing literature in the field. Develops ability to analyze historical methods and develop scholarly historical arguments.

HST 643 Global History

Core readings course engages key historical monographs focused on global history. Provides core content knowledge and an understanding of debates and trends in the field. Provides a basic understanding of existing literature in the field. Develops ability to analyze historical methods and develop scholarly historical arguments.

IED 501 Indigenous Research Methods

Examines research, its methods and methodologies through an indigenous framework. Presents different methods, their connections to various research questions, and thoughts of ways to analyze extant educational data. Additionally, examines traditional methodologies, methodological clashes, and the insertion of critical indigenous research methodologies into the framing of the conversation. Offers an historical overview of research in indigenous communities.
IED 502 Indigenous Knowledges in Ed

Provides an overview of the literature on indigenous knowledge systems as they tie into education as broadly defined. Specifically focuses on indigenous knowledge systems and how it encapsulates relationships (between people and each other, humans and their environment, and humans and written and oral learning); responsibility; reciprocity; and respect. Covers both historical understandings of indigenous knowledge systems and the ways that these knowledge systems are currently being taken up by tribal peoples.

IED 503 Issues in Amer. Indian Ed.

Examines current issues facing American Indian student academic achievement and their path to higher education in the United States. Focuses on how structural and systematic dynamics influence American Indian education. Exposes students to literature and engages in discussions that allow them to analyze how policy, practice and lived-experiences shape American Indian education.

IED 510 History-American Indian Educ

Philosophical and historical review of the development of American Indian education policies in both traditional and contemporary society.

IED 530 Language/Literacy-Indig People

Examines issues, policies, theoretical foundations, and practices of indigenous peoples and other language minority communities from a sociolinguistics and language reclamation perspective.
IED 535 Comm-Based Action Research

Examines the basic structures of what comprises the research paradigm called Community-Based Participatory Action Research (CBPR). CBPR is research that connects “research experts” with community members with an explicit focus on sharing power, knowledge and ownership of data and its concomitant resources and products. Offers a “how-to” for students in constructing research projects utilizing this lens/framework.

IED 585 Capstone

Allows students to build a culminating experience that reflects the breadth and depth of their MA experience and allows each student to explore a research area, interest, theme or question within Indigenous education. Develops final written products individually based on consultation with faculty. Each student has a two-faculty member committee to support the capstone project.

IED 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

ITA 101 Elementary Italian I

Fundamentals of the language. Emphasizes listening, speaking, reading, writing, and cultural proficiency. fee

ITA 102 Elementary Italian II

Fundamentals of the language. Emphasizes listening, speaking, reading, writing, and cultural proficiency.
ITA 102 Elementary Italian II

Fundamentals of the language. Emphasizes listening, speaking, reading, writing, and cultural proficiency.

ITA 194 Special Topics
Italian Language, Beginning
Covers topics of immediate or special interest to a faculty member and students.

ITA 194 Special Topics
Semester Italian Lang, Beg II
Covers topics of immediate or special interest to a faculty member and students.

ITA 194 Special Topics
Intensive Italian Lang, Beg I
Covers topics of immediate or special interest to a faculty member and students.

ITA 194 Special Topics
Communicating in Italian
Covers topics of immediate or special interest to a faculty member and students.

ITA 194 Special Topics
Italian Language & Culture
Covers topics of immediate or special interest to a faculty member and students.

ITA 194 Special Topics
Gateway to Italy
Covers topics of immediate or special interest to a faculty member and students.

ITA 201 Intermediate Italian I

Emphasizes reading, writing, listening, and speaking proficiency at an intermediate level. Focuses on both spoken and written genres of Italian culture. fee
ITA 201 Intermediate Italian I

Emphasizes reading, writing, listening, and speaking proficiency at an intermediate level. Focuses on both spoken and written genres of Italian culture.

ITA 202 Intermediate Italian II

Emphasizes reading, writing, listening, and speaking proficiency at an intermediate level. Focuses on values of Italian culture.

ITA 210 Intensive Italian II

Proficiency-oriented language course designed to achieve the maximum level of proficiency in an intensive and dynamic communicative environment. Class time is spent on a variety of fast-paced communicative activities focused especially on the development of speaking skills. Class meets four times a week.

ITA 294 Special Topics
Intermediate Italian I
Covers topics of immediate or special interest to a faculty member and students.

ITA 294 Special Topics
Italy Study Abroad
Covers topics of immediate or special interest to a faculty member and students.

ITA 311 Italian Conversation

Engages students in different oral/aural activities to reach an advanced proficiency level.
ITA 311 Speak Italy: Lang, People, Cultr

Develops oral/aural proficiency through the study of diverse voices from Italian culture and the analysis of spoken multimedia genres and cultural products.

ITA 350 Mediterranean Lifestyle/Italy

Analyzes the Mediterranean lifestyle (food and eating practices) in Italy from a historical/cultural, scientific and sociological perspective. Students first examine the history and regional cultures of the Mediterranean diet in Italy as they analyze its rich biological diversity and history of cultural exchange. Students then gain an understanding of the critical nutrients of the Mediterranean diet and of the scientific evidence for its health benefits, especially how it can help prevent chronic diseases like obesity and type 2 diabetes, which affect more than half of all adults in the U.S. In addition, students keep a food log for one week, which they then analyze in terms of the critical nutrients of the Mediterranean diet. Finally, Italian food cannot be studied without preparing it! As UNESCO points out, the sharing of food is an important part of the Mediterranean lifestyle.

ITA 394 Special Topics
On Love: Fragments of Italy
Covers topics of immediate or special interest to a faculty member and students.

ITA 394 Special Topics
Food & Cult: Med Lifestyle Italy
Covers topics of immediate or special interest to a faculty member and students.

ITA 394 Special Topics
Food, Culture & Society Italy
Covers topics of immediate or special interest to a faculty member and students.
ITA 394 Special Topics
Italian Culture
Covers topics of immediate or special interest to a faculty member and students.

ITA 413 Advanced Italian
Development and assessment of advanced spoken and written Italian proficiency through activities using all four skills.

ITA 423 Mafia and Film
Through an analysis of historical, anthropological, literary, political and cinematic texts, explores representations of the Italian organized crime in Italian and American films from the early 20th century to today. Discovers different “Mafias” originating in Italy, but whose reach extends much further, such as the Cosa Nostra in Sicily, the Camorra in Naples, and the ‘Ndrangheta in Calabria. Examines the fiction, stereotypes, myths and legends surrounding the mafia through a scrupulous analysis of some of the most important American and Italian films portraying mafia culture. Italians have used the medium of film to address the issue of the mafia, raising awareness about the harsh reality of life in the mafia and the ways in which it reaches into every aspect of Italian politics and society. Explores how Italian mafia films subvert international fascination with the mafioso by disrupting the glamorized myths that are mainly perpetuated by American popular cinema.

ITA 494 Special Topics
Mediterr Lifestyle/South Italy
Covers topics of immediate or special interest to a faculty member and students.

ITA 494 Special Topics
Mafia and Film
Covers topics of immediate or special interest to a faculty member and students.
ITA 494 Special Topics  
Italian Language & Culture  
Covers topics of immediate or special interest to a faculty member and students.

ITA 550 Italian for Reading Knowledge  
Teaches non-speakers of foreign language, or those with only basic notions of the language, how to read in a foreign language at an advanced level. Consists of a concise overview of grammar as well as reading comprehension practice for students who plan to take the Graduate Foreign Language Exam or others who would merely like to learn to read in a foreign language. Focuses only on reading and not on listening, speaking or writing as in a traditional language course.

JPN 394 Special Topics  
Religious Practice/ModernJapan  
Covers topics of immediate or special interest to a faculty member and students.

JST 315 Hebrew Bible (Old Testament)  
Nature, content, background, historical situation, and message of the books of the Hebrew Bible in English translation.

JUS 105 Intro to Justice Studies  
Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Credit is allowed for only JUS 105 or 305. Appropriate for freshmen and sophomores.

JUS 105 Intro to Justice Studies  
Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Appropriate for freshmen and sophomores.
JUS 207 Homicide and Serial Killers

Explores the scholarship, research and rational analysis of the mass, spree and serial killer. It will examine some of the causes and underpinnings of these killers within the U.S. as well as the major theories and understandings of this phenomenon.

JUS 214 Justice Institutions

Introduces a wide variety of institutions and organizations--locally, nationally and internationally--that seek justice. Provides an understanding of the many ways justice is institutionalized in modern societies.

JUS 214 The Pursuit of Justice

Introduces a wide variety of institutions and organizations--locally, nationally and internationally--that seek justice. Provides an understanding of the many ways justice is institutionalized in modern societies.

JUS 301 Research in Justice Studies

Focuses on developing and evaluating research designs, data collection, and the relationship between validity and reliability. Stresses methods for conducting research.

JUS 302 Basic Statistic Analys/Justice

Introduces the fundamentals and application of descriptive and inferential statistics, with emphasis in the justice area.

JUS 302 Statistical AnalysisJusStd

Concepts and application of descriptive and inferential statistics, including linear regression, for justice studies research.

JUS 303 Justice Theory

Examines classic and contemporary philosophies and theories of justice, including legal, social, and criminal justice.
JUS 305 Principles of Justice Studies

Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Credit is allowed for only JUS 305 or 105. Appropriate for juniors and seniors.

JUS 305 Principles of Justice Studies

Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Appropriate for juniors and seniors.

JUS 329 Domestic Violence

Legal, historical, theoretical, and treatment aspects of domestic violence, including child abuse, woman battering, incest, and marital rape.

JUS 329 Domestic Violence

Critical inquiry into the legal, historical, theoretical, comparative, and treatment literatures on domestic violence; application of contemporary justice and social change theories to research how society defines and organizes against domestic violence. May include consideration of intimate partner abuse, child abuse and neglect, and gender violence.

JUS 350 Immigration and Justice

Examines immigration policy, history of immigration, refugee issues, labor force participation, gender, family, children, social networks, and transnationalism.

JUS 352 Global Politics of Human Rights

Examines political forces that have shaped gradual construction of an international human rights regime and a universal culture of rights, including civil and political rights, as well as economic, social, and cultural rights.
JUS 365 Inequality/Diversity Education

Advanced exploration of various dimensions of diversity in relation to educational systems and outcomes. Through sociological and psychological research, case studies and films, students examine how educational inequality is created and reproduced through individual actions and institutional constraints. Also considers the connection between schooling and human rights and ways in which educational inequality may be addressed.

JUS 374 Holocaust, Genocide & Human Rights

Explores the psychological, social, historical, and political dimensions of the Holocaust and the phenomenon of genocide. Also examines the more recent international cases of genocide along with a discussion and analysis of the Universal Declaration of Human Rights.

JUS 377 AZ Immigration, Latino Politics

Contemporary immigration and its related issues have generated significant debates, reforms and responses by government officials, businesses and private citizens, to name but a few in this country. This course provides a much-needed framework for understanding some of the immigration issues in Arizona and the country generally. It also focuses on some of the political responses by Latinos and their significant mobilization at the local, state and federal levels.

JUS 382 Justice and Pop Culture

Explores the connections between the production, reproduction, and consumption of popular culture and the resultant impact on issues of justice.

JUS 385 Justice and Everyday Life

Justice and injustice in everyday life and how small things can become legal issues. Role of language and interaction in social order.

JUS 394 Special Topics
Employment Law
Covers topics of immediate or special interest to a faculty member and students.

JUS 394 Special Topics
Inequality and Diversity in Ed
Covers topics of immediate or special interest to a faculty member and students.

JUS 394 Special Topics
Indigenous Lang.Policy/Justice
Covers topics of immediate or special interest to a faculty member and students.

JUS 394 Special Topics
Culture&Society Transformation
Covers topics of immediate or special interest to a faculty member and students.

JUS 394 Special Topics
Gender and Hip Hop
Covers topics of immediate or special interest to a faculty member and students.

JUS 424 Ethics and Alternative Tourism
Cultural processes related to alternative tourism and their impact on both the tourist and local. Travel, tourism, globalization, development, human rights and the commodification of people and places. Topics include issues pertaining to Western tourism, commodification, race/class/gender and globalization.

JUS 432 Racial Justice
Racial inequality remains a dominant theme in understanding social, legal, and economic justice in the U.S. today. Explores controversial topics surrounding race and justice. Emphasizes current legal, economic, political, and social conceptual frameworks.
JUS 435 Cinema and Justice

Tracks the conceptualizations of justice that have been and are currently conveyed in film, including but not limited to the relationship between crime and various notions of justice. Other depictions include social issues such as gender, race, or economics.

JUS 470 Alternative Dispute Resolution

Critical examination of the tenets of alternative dispute resolution movement; exposure to the programs of ADR, including community and court based.

JUS 475 Law, Societies & Jus Lat-Am

Reviews justice-related sociological and criminological theories in the target language. Introduces the application of social theories and human right principles to the issues affecting Latino communities both in Latin America and the United States. Students engage in critical inquiries and focused research to develop culturally sensitive and insightful solutions to criminal and justice-related topics that affect Latinos in their communities (physical or virtual).

JUS 477 Youth and Justice

Critical examination of youth-related justice issues, including economic justice, violence against youth, delinquency, and the juvenile justice system.

JUS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

JUS 498 Pro-Seminar
Writing Mentorship
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.
JUS 498 Pro-Seminar
Research Apprenticeship
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

LAT 140 Grk&Lat Roots Biosctfc Trmnlgy
Introduces students to the ancient Greek and Latin root words most commonly used in biological, medical, and other scientific terminology, and gives practice identifying them in context. The knowledge of these root words enables students to memorize with greater ease and increased retention the bioscientific terminology they encounter in other coursework as well as in their medical or scientific profession.

LAT 223 Intro to Greek & Roman Myth
Familiarizes students with the characters and events of ancient Greek and Roman myths through their literary manifestations, and moves beyond mere narrative to consider the possible interpretations and functions of these myths, thus revealing the central concerns of ancient society and giving insights into the working of our own society and its literary and artistic traditions.

LIN 501 Approaches to Research
Theories, methods and/or methodologies as well as qualitative and/or quantitative approaches to the specific discipline. Also serves as an introduction to the profession.

LIN 510 Linguistics
Overview of linguistics, its subfields, and some of its applications.

LIN 517 History of English Language
Surveys the development of the English language, with an emphasis on major linguistic transformations.
LIN 520 Second-Lang Acquisition Theory

Theories of second-language acquisition, including the linguistic, cognitive, and sociocultural aspects.

LIN 521 Mthds Teachng Engl as Sec Lang

Methods of teaching English as a second language, language teaching trends, practical applications, and the teaching of different skills.

LIN 522 Grammar for TESL

Surveys major grammatical structures in English and how they can be taught to ESL speakers.

LIN 523 Language Testing and Assessmnt

Introduces the theory and practice of language test construction.

LIN 524 Curriculum Design/Material Dev

Practical guide to curriculum and materials development.

LIN 591 Seminar
Native Speakerism in TESOL
A small class emphasizing discussion, presentations by students, and written research papers.

LIN 591 Seminar
Teaching English as Int'l Lang
A small class emphasizing discussion, presentations by students, and written research papers.

LIN 591 Seminar
English for Specific Purposes
A small class emphasizing discussion, presentations by students, and written research papers.
LIN 597 MTESOL Capstone

Provides MTESOL students with a culminating experience in which they bring together the knowledge learned in prior courses in the program in a way that is meaningful and relevant to their professional goals. Focuses on projects that the students carry out to demonstrate their ability to apply scholarly and professional knowledge in TESOL practice. Provides opportunities to engage in some professional activities.

MAT 110 Enhanced Freshman Mathematics

Individually paced, computer-mediated course designed to prepare students for college-level mathematics. Students work on various modules in an online adaptive learning technology platform created to help students progress through the course material based on individual needs in preparation for enrollment in the next level math course required by the student's major (pre-MAT 117 “Track 1” or pre-MAT 142 “Track 2”). Upon completion of this course, students should see improvement of basic math skills, an increase in the confidence in mathematical abilities, and advancement in ability to relate math to real-life applications. Credit for this course does not count towards university graduation requirements.
MAT 117 College Algebra

Linear and quadratic functions, systems of linear equations, logarithmic and exponential functions, sequences, series, and combinatorics.

MAT 117 College Algebra Stretch

For students who have an in-progress (Z) grade for MAT 117. The grade earned in MAT 117S replaces the Z grade for MAT 117. Course content is the same as MAT 117, which is intended to develop skills in linear functions, quadratic functions, general polynomial functions, rational functions, exponential functions and logarithmic functions. Also studies systems of linear equations. Emphasizes problem-solving techniques, specifically by means of discussing concepts in each of these topics.

MAT 142 College Mathematics

Applies basic college-level mathematics to real-life problems. Appropriate for students whose major does not require MAT 117 or 170.

MAT 170 Precalculus

Intensive preparation for calculus (MAT 260, 270, and 290). Topics include functions (including trigonometric), matrices, polar coordinates, vectors, complex numbers, and mathematical induction.
MAT 170 Precalculus

Intensive preparation for calculus. Topics include functions (including trigonometric), vectors and complex numbers.

MAT 210 Brief Calculus

Differential and integral calculus of elementary functions with applications. Not open to students with credit in MAT 260 or 270 or 290. Fee (online only).

MAT 211 Math for Business Analysis

Topics in business analysis, including: Lagrange multipliers, linear programming, linear algebra, intermediate probability, random variables, discrete distributions, and continuous distributions.

MAT 242 Elementary Linear Algebra

Introduces matrices, systems of linear equations, determinants, vector spaces, linear transformations, and eigenvalues. Emphasizes development of computational skills.

MAT 243 Discrete Math Structures

Logic, sets, functions, elementary number theory and combinatorics, recursive algorithms, and mathematical reasoning, including induction. Emphasizes connections to computer science.
MAT 251 Calculus for Life Sciences

Differential and integral calculus of elementary functions. Introduces differential and difference equations. Emphasizes applications to the life sciences. Not open to students with credit in MAT 210, 260, or 270.

MAT 265 Calculus for Engineers I

Limits and continuity, differential calculus of functions of one variable, introduction to integration.

MAT 266 Calculus for Engineers II

Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, Taylor series.

MAT 267 Calculus for Engineers III

Vector-valued functions of several variables, partial derivatives, multiple integration.

MAT 275 Modern Differential Equations

Introduces differential equations, theoretical and practical solution techniques. Applications. Problem solving using MATLAB.

MAT 343 Applied Linear Algebra

Solving linear systems, matrices, determinants, vector spaces, bases, linear transformations, eigenvectors, norms, inner products, decompositions, applications. Problem solving using MATLAB.
MAT 343 Applied Linear Algebra

Solving linear systems, matrices, determinants, vector spaces, bases, linear transformations, eigenvectors, norms, inner products, decompositions, applications. Problem solving using MATLAB. 4

MBB 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

MIC 205 Microbiology

Introductory microbiology, emphasizing basic principles of microorganisms (bacteria, protozoa, algae, fungi, and viruses) and the role they play in health, ecology, and applied fields. May not be used for Microbiology credit unless a diagnostic test is passed. Both MIC 205 and MIC 206 required for SG General Studies credit.

MIC 206 Microbiology Laboratory

Principles and lab techniques used in identifying and handling microorganisms. Both MIC 205 and 206 must be taken to secure SG General Studies credit.

MIC 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

MLS 501 Writing about Social Issues:SW

Reading and discussion of nonfiction writing on social issues that integrate cultural, gender, and societal issues that affect the well-being of urban communities with special attention to the Southwest.
MLS 501 Writing about Social Issues: SW

Reading and discussion of nonfiction writing on social issues that integrate cultural, gender, and societal issues that affect the well-being of urban communities with special attention to the Southwest.

MLS 503 Ethics, Science, and Culture

Introduces ethics related to the practice of art, science, and medical practice in modern and premodern society.

MLS 504 Film Analysis

Introduce formal and cultural issues important to understanding movies.

MLS 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
MLS 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

MLS 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

MLS 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

MLS 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.
MLS 598 Special Topics
Writing Book Proposals
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Crtcl Iss in the Humanities
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Paranoia&Contemporary Culture
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Food Writing
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Poetry and Memory
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Humor Writing
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MLS 598 Special Topics
Memoir and Personal Essay
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Wrtng Graphic Novel/Comic Bk
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
50s Decade of Denial
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Storms and Culture
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Global Cinema
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Crimes & Punishment:True Crime
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
MLS 598 Special Topics
60s Decade of Turmoil
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Food Cinema
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
The Arrival of Belief
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Travel Writing
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Seven Deadly Sins
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Taboo in Texts & Visual Texts
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MLS 598 Special Topics
Food Cinema
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Global Cinema
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Research Methods
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Crimes & Punishment:True Crime
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Crimes & Punishments
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Humor Writing
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
MLS 598 Special Topics
60s Decade of Turmoil
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Exploring Identity in American
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Wrtng Graphic Novel/Comic Bk
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Intro to Film-Philosophy
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
70s Decade of Upheaval & Trans
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Writing the Journey
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MLS 598 Special Topics
The Arrival of Belief
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Storms and Culture
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Seven Deadly Sins
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Food, Film & Culture
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
The Research Process
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Crtcl Iss in the Humanities
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
MLS 598 Special Topics
Memoir and Personal Essay
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Paranoia & Contemporary Culture
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Critical Issues US/Mex Border
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Taboo in Texts & Visual Texts
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Hip Hop: Arts, Aesthetics
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

MLS 598 Special Topics
Poetry and Memory
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
MLS 598 Special Topics
50s Decade of Denial
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

MLS 598 Special Topics
Food Writing
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PHI 101 Introduction to Philosophy
Explores issues that philosophers have traditionally considered,
including morality, reality, and knowledge.

PHI 103 Principles of Sound Reasoning
Fallacies, validity, and soundness of arguments. May include
syllogistic, elementary symbolic, inductive logic, and scientific
method.

PHI 105 Intro to Ethics
Philosophical examination of such questions as, How should
we live? Is morality a social invention? Does anything matter?

PHI 300 Philosophical Argument/Exposit
Develops techniques of philosophical argument and exposition.
Frequent written exercises. Course content may vary with
instructor.

PHI 304 Existentialism
Covers such topics as absurdity, authenticity, the meaning
of life and death, responsibility, and subjectivity. May include
readings in phenomenology.
PHI 306 Applied Ethics

Philosophical discussion of contemporary moral and political issues, such as abortion, euthanasia, animal rights, affirmative action, and sexual rights.

PHI 307 Philosophy of Law

Nature and source of law and its relation to morality. Legal rights, legal enforcement of morals, civil disobedience, liability and responsibility, punishment, judicial reasoning, justice, property, and differences between theories of natural and positive law.

PHI 310 Environmental Ethics

Examines a full range of philosophical positions pertaining to our moral relationship to the natural world; anthropocentrism, individualism, biocentrism.

PHI 311 Philosophy and Literature

In-depth study of selected literary and philosophic texts. Addresses philosophical problems such as the nature of moral goodness and human relations; the purpose of life; or the relations among beauty, truth and justice. Also addresses whether literary aspects of philosophical texts such as myth, image, metaphor or rhetorical devices contribute to meaning or promote ethical insight as well as interdisciplinary tensions and bridges between rhetoric and philosophy.

PHI 314 Philosophy of Science

Structure and justification of scientific theories, explanation, and theory change. Roles of observation and laws, theoretical concepts and entities, reduction, probability, confirmation, space and time, and causation.
PHI 318 Philosophy of Religion

Classical arguments for the existence of God. Argument from evil against the existence of God. Justification of religious belief.

PHI 319 Philosophy, Computing & AI

Philosophical problems surrounding artificial intelligence (AI). Thinking as computation and AI; the ethics, epistemology and metaphysics of computing.

PHI 320 Bioethics

Critical examination of moral questions arising in biomedical contexts, particularly due to new technologies and scientific discoveries.

PHI 328 History of Ancient Philosophy

History of Western philosophy from its beginnings through the Hellenistic period.

PHI 329 History of Modern Philosophy

History of Western philosophy from the Renaissance through Kant.

PHI 330 Theory of Knowledge

Nature, sources, and limits of human knowledge. Topics may include truth, a priori knowledge, empirical knowledge, perception, induction, and skepticism.

PHI 332 Metaphysics

Problems pertaining to the nature of reality. Topics may include nature of person, minds, substance, universals, space, time, causation, and modality.
PHI 333 Symbolic Logic

Studies symbolic techniques to represent knowledge, deductive arguments, refutation by counter-example, and model-theoretic representation. Covers propositional and first-order predicate logic and provides a deeper understanding of theories about the world and of reasoning in life generally. Students gain a valuable tool for any field or discipline in which rigorous thinking is necessary such as science, medicine, business and the legal profession.

PHI 334 Philosophy of Mind

Nature of consciousness. Common sense view of mind, behaviorism, materialism, dualism, functionalism, self-knowledge, and knowledge of other minds.

PHI 335 History of Ethics

Major works of moral philosophy, both ancient and modern, such as those by Plato, Aristotle, Hobbes, Hume, Kant, and Mill.

PHI 336 Social/Political Philosophy

Alternative principles and methods relevant to problems of human association and conflict; discusses justice and power, freedom and equality, and autonomy and order.

PHI 337 Ethical Theory

Theories in normative ethics about the nature of what is right and wrong, good and bad, virtuous and vicious. May include issues in metaethics.

PHI 338 Metaethics

Concerns questions about the nature of value, morality, and normativity in general, such as “Is morality objective, subjective, or relative?”
PHI 360 Business & Professional Ethics

Examines moral theories applied to cases of corporate responsibility, property rights, environment, fairness, profit, employee rights, and responsibilities.

PHI 394 Special Topics
Business Ethics and Leadership
Covers topics of immediate or special interest to a faculty member and students.

PHI 403 Contemp Analytic Philosophy

Aims and methods of such 20th-century philosophers as Frege, Moore, Russell, Wittgenstein, Carnap, Ayer, Wisdom, Ryle, Austin, Strawson, Quine, and Sellars, with application to metaphysics and epistemology.

PHI 420 Topics in Philosophy
Experimental Philosophy
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Feminist Philosophical Lit
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Artificial Intel&Applied Logic
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Philosophy of Fiction
Course descriptions on file in department.
PHI 420 Topics in Philosophy
Well-Being: Phil. of Happiness
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Phil of Mind: Consciousness
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Hellenistic Epistemology
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Stoicism
Course descriptions on file in department.

PHI 420 Topics in Philosophy
MetaMetaphysics
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Philosophy of Time
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Ethics in Plato & Aristotle
Course descriptions on file in department.

PHI 420 Topics in Philosophy
Metaphysics/Philosophy of Mind
Course descriptions on file in department.

PHI 484 Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

PHI 494 Special Topics
History of Analytic Philosophy
Covers topics of immediate or special interest to a faculty member and students.
PHI 494 Special Topics
Topics Phil Lang: Context Sens
Covers topics of immediate or special interest to a faculty member and students.

PHI 494 Special Topics
Undergrad Research Experience
Covers topics of immediate or special interest to a faculty member and students.

PHY 111 General Physics
Noncalculus treatment of the principles of physics for nonphysics majors. Students whose curricula require a lab course must also register for PHY 113. Both PHY 111 and PHY 113 must be taken to secure SQ General Studies credit.

PHY 112 General Physics
Continuation of PHY 111. Students whose curricula require a lab course must also register for PHY 114. Both PHY 112 and PHY 114 must be taken to secure SQ General Studies credit.

PHY 113 General Physics Laboratory
Elementary experiments in physics. Requires outside preparation for experiments and report writing. May be taken concurrently with, or subsequent to PHY 111. Both PHY 111 and PHY 113 must be taken to secure SQ General Studies credit.

PHY 114 General Physics Laboratory
See PHY 113. May be taken concurrently with, or subsequent to, PHY 112. Both PHY 112 and PHY 114 must be taken to secure SQ General Studies credit.
PHY 121 Univ Physics I: Mechanics

Kinematics; Newton’s laws; work, energy, momentum, conservation laws; dynamics of particles, solids, and fluids. Both PHY 121 and PHY 122 must be taken to secure SQ General Studies credit.

PHY 122 University Physics Lab I

Lab accompanying PHY 121. Both PHY 121 and PHY 122 must be taken to secure SQ General Studies credit.

PHY 131 Univ Physics II: Elctrc/Magnet

Electric charge and current, electric and magnetic fields in vacuum and in materials, and induction. AC circuits, displacement current, and electromagnetic waves. Both PHY 131 and PHY 132 must be taken to secure SQ General Studies credit.

PHY 132 University Physics Lab II

Lab accompanying PHY 131. Both PHY 131 and PHY 132 must be taken to secure SQ General Studies credit.

PHY 201 Math Methods Physics I

Differential equations, linear equations, vectors, matrices, Fourier series, and numerical methods.

PHY 202 Programming for Physicists

Introduces programming in the Python programming language for physics majors.

PHY 241 University Physics III

Thermodynamics, kinetic theory, physical and wave optics, relativity, photons, matter waves, atomic physics.
PHY 333 Electronic Circuits/Measurement

Basic principles of electronic circuit analysis and measurement techniques using modern instrumentation and computer-aided analysis of data.

PHY 361 Introductory Modern Physics

Special relativity and introductory quantum theory with applications drawn from atomic, nuclear, and solid-state physics.

PHY 480 Methods of Teaching Physics

Evaluates various approaches to the teaching of high school physics. Preparation of demonstrations and experiments. Organization of a lab. Designed for secondary school physics teachers.

POR 101 Elementary Portuguese

Basic grammar with intensive drills in class and lab directed toward conversational fluency.

POR 201 Intermediate Portuguese

Continuation of POR 101. Intensive drill of fundamentals in class and lab directed toward conversational fluency.

POR 320 Portuguese Spanish Spkrs I

Intensive introduction to the Portuguese language for Spanish speakers. Designed for students with an active competence in Spanish who wish to learn the essential elements of the Portuguese grammar at an accelerated pace, as well as acquire listening, speaking, reading and writing skills. Based upon the theory of “intercomprehension,” which implies the speaker’s ability to understand the speech of another speaker who communicates in a dialect of the same language or a related language. Due to the linguistic similarities with Spanish, students master the four basic skills of listening, speaking, reading and writing of in Portuguese at a faster pace.
POR 321 Portuguese Spanish Spkrs II

Intensive intermediate-level Portuguese language class designed for Spanish-speakers. Further develops the students' communication skills in Portuguese. Makes use of the many common elements between Spanish and Portuguese (particularly vocabulary and grammar) to achieve an accelerated learning of linguistic, sociolinguistic and pragmatic competences required for fluency. The class is mostly conducted in Portuguese: do not be afraid of making mistakes while speaking Portuguese because this is a natural part of the learning process.

POR 394 Special Topics
Portuguese Spanish Speakers I
Covers topics of immediate or special interest to a faculty member and students.

POR 394 Special Topics
Portuguese Spanish Speakers II
Covers topics of immediate or special interest to a faculty member and students.

POS 110 Government and Politics

Major institutions of modern government and processes of individual and group political activity, with emphasis on the American experience. Meets the federal government requirement for teacher certification. Credit is allowed for only POS 110 or 310.

POS 110 Government and Politics

Major institutions of modern government and processes of individual and group political activity, with emphasis on the American experience. Meets the federal government requirement for teacher certification.
POS 110 American Government & Politics

Major institutions of modern government and processes of individual and group political activity, with emphasis on the American experience. Meets the federal government requirement for teacher certification.

POS 150 Comparative Government

Political institutions and processes in selected foreign countries, including origins, strengths, and weaknesses of contemporary political systems and political development.

POS 160 Global Politics

Nature of contemporary world politics through the study of both general theoretical topics and specific geographical areas. Credit is allowed for only POS 160 or 362.

POS 210 Political Ideologies

Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures.

POS 216 State and Local Government

Surveys the operations, problems, and policies of state and local governments in the United States.

POS 260 Curr Issues in Intl Politics

Analyzes major current problems in world politics.
POS 270 American Legal System

Concepts, institutions, classifications, and functions of law. Role of the courts and impact of judicial decision making on social change.

POS 294 Special Topics
Political Concepts
Covers topics of immediate or special interest to a faculty member and students.

POS 294 Special Topics
Speaking Politically
Covers topics of immediate or special interest to a faculty member and students.

POS 300 Contemp Global Controversies

POS 300 Contemp Global Controversies

Explores key controversies in global politics including security, economic stability, poverty, gender, race, and the environment.

POS 301 Empirical Political Inquiry

Logic of political inquiry, including research problems, concepts, hypotheses, theories, measurement, data collection, and analysis.

POS 305 Politics and Film
Science Fiction, Zombies & IR
Examines portrayal of political events, ethnic groups, and sociopolitical situations in film, a major medium addressing questions of human values. May be repeated for credit when topics vary.

POS 305 Politics and Film
American Politics in Film
Examines portrayal of political events, ethnic groups, and sociopolitical situations in film, a major medium addressing questions of human values. May be repeated for credit when topics vary.
POS 305 Politics and Film
Latin America
Examines portrayal of political events, ethnic groups, and sociopolitical situations in film, a major medium addressing questions of human values. May be repeated for credit when topics vary.

POS 305 Politics and Film
Geopolitics and Cinema
Examines portrayal of political events, ethnic groups, and sociopolitical situations in film, a major medium addressing questions of human values. May be repeated for credit when topics vary.

POS 310 American National Government
Powers, functions, and agents of American political institutions. Meets the federal government requirement for teacher certification.

POS 313 The Congress
Lawmaking process in the U.S. Congress.

POS 314 The American Presidency
Office, role, and power of the American presidency in the American political system.

POS 315 The Supreme Court
Role of the Supreme Court in American society and politics; examines decision-making process and impact of decisions; restraint versus activism.

POS 325 Public Policy Development
Examines one or more aspects of public policy development including agenda setting and policy formulation, implementation, and analysis.
POS 332 American Political Parties

Development of the American party system. Party organization and functions.

POS 333 Interest Groups

Examines how minority, corporate, labor, farm, consumer, environmental, health, education and public interest groups, and single-issue movements influence government.

POS 337 Political Psychology

Political psychology is an interdisciplinary field that applies theories from the study of human psychology to the study of politics. Focuses on how psychological processes influence political thoughts and actions. Thus, the initial portion of the course discusses the structure of political attitudes and opinions and some of the primary ways that politicians and the media can influence public opinion.

POS 340 History Political Philosophy I

Western political philosophers and their theories to the 17th century.

POS 346 Problems of Democracy

Issues and problems in democratic theory, e.g., the nature of democracy, majority rule, representation, equality, and the value of political participation.
POS 348 Do You Want to Build a Nation

Requires students to critically assess their assumptions about nation-states through a series of debates and simulation games. Through in-class, interactive games, students answer: What are the sources of legitimacy and defining elements of statehood? How do those defining elements, such as democratic structures, support or challenge certain functions of the nation-state? How does a nation’s purported moral basis affect its foreign policy decisions and negotiations with other nations?

POS 350 Comparative Politics

Theoretical approaches and political institutions, such as parties, pressure groups, legislatures, and executives, from a cross-national perspective.

POS 351 Democratization

Examines the consolidation of democracies in postauthoritarian and postcommunist settings (e.g., Latin America, Eastern Europe, Asia).

POS 360 World Politics

Theory and practice of statecraft as applied to selected issues, regions, or eras. Emphasis may vary with instructor, but cannot be repeated for credit.

POS 361 American Foreign Policy

United States in world affairs; foreign policy since World War I. Techniques in formulating American foreign policies.

POS 364 Natl Security/Intell/Terrorism

Theoretical and empirical assessment of U.S. national security policy in the post-cold war era.
POS 368 Ethics and Human Rights

Explores issues of ethics, morality, and human rights in the global community.

POS 370 Law and Society

Analyzes debates among social scientists and legal theorists concerning the relationship between law and society.

POS 377 AZ Immigration, Latino Politics

Contemporary immigration and its related issues have generated significant debates, reforms and responses by government officials, businesses and private citizens, to name but a few in this country. This course provides a much-needed framework for understanding some of the immigration issues in Arizona and the country generally. It also focuses on some of the political responses by Latinos and their significant mobilization at the local, state and federal levels.

POS 394 Special Topics
Faith & Politics of Africa
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
The Contemporary Supreme Court
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Geopolitics & Intl Relations
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Authoritar, Revol, Sthd Mid Ea
Covers topics of immediate or special interest to a faculty member and students.
POS 394 Special Topics
Politics of Developing World
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Cntmp Iss Aust Politics: RNCG
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
European Foreign Policy
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Political Science Rsch Methods
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Eurp, Italy & EU: Prog & Chall
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
The 2016 Presidential Election
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Understanding Internationl Gov
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
After 9/11 US & War Terrorism
Covers topics of immediate or special interest to a faculty member and students.
POS 394 Special Topics
The Future of War
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
A Tale 2 Countries Franco-Amer
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
International Security Studies
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
US as Global Superpower
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Political Psychology
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Public Policy Dev. & Advocacy
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Political Scandals
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Ghana:Society,Culture,& Enviro
Covers topics of immediate or special interest to a faculty member and students.
POS 394 Special Topics
Contemporary African Diaspora
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Fake News: Identify & Refute
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
The Resource Curse
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Prof. Career Development
Covers topics of immediate or special interest to a faculty member and students.

POS 394 Special Topics
Greece and Macedonia
Covers topics of immediate or special interest to a faculty member and students.

POS 401 Political Statistics
Basic concepts in statistics as they facilitate the description, explanation, and prediction of social and political phenomena.

POS 434 Media and Politics
Studies mass media and politics in the United States, e.g., media and elections, media and government.

POS 435 Women and Politics
Focuses on the uniqueness of women in modern political systems and political thought. Emphasis may vary with instructor.
POS 442 American Political Thought

Political theories and movements from the colonial period to the present.

POS 453 Latin America

Political institutions, process, and developmental problems of South American states examined through comparative analysis, novels and poetry.

POS 465 International Organization/Law

History, practical political significance, and future of international institutions, transnational regimes, and international law.

POS 467 International Security

Examines issues affecting the international security of states and peoples, e.g., military, economic, technological, environmental, and demographic.

POS 468 Comparative Asian Foreign Pols

Foreign policies of the Asian states, emphasizing their security relations and movements toward regionalism.

POS 468 Comparative Asian Foreign Pols

Foreign policies of the Asian states, emphasizing their security relations and movements toward regionalism.

POS 471 Constitutional Law I

Development of the U.S. Constitution as reflected in decisions of the Supreme Court; jurisdiction and organization of the federal courts; judicial review; separation of powers; federalism; the commerce clause; national taxing and spending power; state police power.
POS 472 Constitutional Law II

Development of the U.S. Constitution as reflected in decisions of the Supreme Court; due process; equal protection of laws; individual rights; civil liberties.

POS 484 Internship
Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
Ghana Study Abroad
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
McCain Institute Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
Arizona State Legislative
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
ASU-McCain DC Internship Progr
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
AZ State Legislative Intern II
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
POS 484 Internship
Capital Scholars Undergrad
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 486 Internatl Political Economy
Contending approaches to historical and contemporary issues of international political economy, including global welfare, equality, ecology, and peace.

POS 494 Special Topics
Human Enhancement & Democracy
Covers topics of immediate or special interest to a faculty member and students.

POS 494 Special Topics
Pol Institution Sustainability
Covers topics of immediate or special interest to a faculty member and students.

POS 494 Special Topics
Intl Pol Econ: Theories & Empi
Covers topics of immediate or special interest to a faculty member and students.

POS 494 Special Topics
Jr. Fellows
Covers topics of immediate or special interest to a faculty member and students.

POS 494 Special Topics
McCain Institute Policy Design
Covers topics of immediate or special interest to a faculty member and students.

POS 494 Special Topics
Politics & Culture of Ireland
Covers topics of immediate or special interest to a faculty member and students.
POS 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

PSY 294 Special Topics
Psychology in Shakespeare
Covers topics of immediate or special interest to a faculty member and students.

PSY 320 Learning and Motivation

Principles of conditioning and motivation; approaches to learning, including acquisition of verbal materials, concepts, and motor skills; memory and transfer.

PSY 350 Social Psychology

Human social behavior, including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion.

PSY 366 Abnormal Psychology

Historical and current definitions, theory, and research concerning abnormal behavior. Major categories of psychopathology, including related treatment approaches.
PSY 394 Special Topics
Cultr Shock: Cross-Cultural Psy
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Dog Behavior
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Consumer Psychology
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Fndtns Human Sexual Behavior
Covers topics of immediate or special interest to a faculty member and students.

PSY 498 Pro-Seminar
Cross-Culture Psychology
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

PSY 498 Pro-Seminar
Cross-Culture Psychology
Small-group study and research for advanced students within their majors.

PSY 563 Prev Plan & Eval Serv Setting
Provides the foundational and theoretical knowledge necessary for prevention planning and evaluation in service settings.
PSY 564 Prev Educ, Comm, Serv Delivery

Provides the foundational and theoretical knowledge necessary for aspiring professionals planning to serve as a resource to community members and organizations regarding prevention education, the promotion of programs, services and activities as well as maintaining good public relations.

PSY 567 Prev Organization & CC

Provides the foundational and theoretical knowledge necessary for affecting organizational and community change to promote and engage in evidence-based prevention practices.

PSY 569 Prof Ethcs, Grwth, Responsbty

Provides the foundational knowledge necessary for engaging and maintaining practices in prevention that are ethical, culturally responsive and adhere to the beneficence and non-maleficence principles.

PSY 570 Psychopharmacology

Provides a broad overview of numerous classes of both psychotherapeutic and addictive drugs (which are sometimes overlapping). Focuses on the classification, mechanism of action, pharmacokinetics/pharmacodynamics, and clinical efficacy of medications that are currently used for the treatment of various psychiatric disorders including mood disorders, anxiety, schizophrenia, ADHD and other conditions. The latter portion of the class focuses on therapeutic drugs that also have abuse potential, including some psychostimulants, opiates, sedative/hypnotics, cannabinoids, steroids and hallucinogens.

PSY 591 Seminar
Cultural Psychology
A small class emphasizing discussion, presentations by students, and written research papers.
PSY 591 Seminar
Ethics
A small class emphasizing discussion, presentations by students, and written research papers.

PSY 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

PSY 598 Special Topics
Cross-Culture Psychology
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

PSY 601 Assessment & Diagnosis

Discusses scientifically informed approaches to assessment. Reviews research-based practical strategies for assessing the clinical symptoms, treatment needs and clinical outcomes of individuals who have problems with substance use. Students examine and explore how sociocultural views of substance use relate to patterns of use, and impacts individuals with substance use disorders, and their families. Uses a biopsychosocial approach to discuss the processes involved in addictive behaviors. Addresses how to weave assessment through the entire process of care, from initial screening, through treatment, to relapse prevention. Examines various screeners and assessments, and diagnostic interviews used to detect substance use disorders, along with the strengths and limitation of each. Also reviews how to communicate findings of assessments and diagnoses to individuals, parents and legal entities.
PSY 602 Comorbidity Substance Use

Reviews common co-occurring psychiatric, medical and legal problems with substance use related disorders. Discusses scientifically informed approaches to assessment and treatment. Examines and explores how mental illness in combination with chemical dependency and/or substance abuse plus other challenges, such as disabilities and legal problems, impacts individuals, families and society. Uses a biopsychosocial approach to explore and identify evidence-based practice and research in dual diagnoses. Addresses all of the DSM 5 major disorders, including mood, anxiety and psychotic disorders occurring with substance abuse. Examines various screeners and assessments used to detect the presence of and severity of co-occurring disorders. Students learn about the efficacy of psychopharmacology and psychosocial treatments in the treatment of dual diagnoses disorders.

PSY 603 Evidence-Based Interventions

Provides a comprehensive review of the evidence-based psychosocial and pharmacological treatments for substance use related problems. Although the current evidence base for the effects of psychosocial interventions is sizable, subsequent steps in the process of bringing a psychosocial intervention into routine clinical care are less well defined. This course details the reasons for the gap between what is known to be effective and current practice and offers recommendations for how best to address this gap by applying a framework that can be used to establish standards for psychosocial interventions.
PSY 604 Multicultural Issues

Cultural competence refers to an ability to interact effectively and respectfully with people of different cultural and socioeconomic backgrounds. Developing cultural competence results in an ability to understand, communicate with and effectively interact with people across cultures. Within the substance use field, programs with culturally responsive policies, assessments and treatment practices have been associated with higher retention of minorities in substance use treatment. Reviews the historical and cultural context of the most prominent cultures in the state of Arizona such as Hispanic Communities, Native Americans, African Americans, Asians and Pacific Islanders. Also reviews the historical and cultural context across sex, gender and sexual orientation as it relates to substance use. Spends the majority of the course time discussing the development of culture-centric approaches in practice, barriers to treatment and integrating diversity into treatment.

PSY 605 Grp Thrpy for Subst Rel Probl

Provides a comprehensive review of group dynamics and processes as they relate to addictions and substance use disorders. Reviews theories, research and evidence-based treatment interventions related to group therapy for addictions.

PSY 678 Prev Psychsoc Intervntions

Provides the foundational knowledge necessary for identifying evidence-based protocols.

PUP 190 Sustainable Cities

Introduces technological, social, and cultural principles and innovations for cities under the notion of sustainability and sustainable development within the global, regional, and local contexts.
PUP 200 Cities in Cinema

Environmental, aesthetic, social, economic, political cultural, and other factors influencing global cities seen through films from around the world.

PUP 301 Introduction to Urban Planning

Theoretical and practical aspects of city planning. Interrelationships among physical planning, environment, government, and society.

PUP 363 History of Planning

Historical overview of western urban and regional planning and planning theory, focusing on the 19th and 20th centuries.

PUP 394 Special Topics
JnryStories:People&PlaceInMotn
Covers topics of immediate or special interest to a faculty member and students.

PUP 410 Public Participation Planning

Theory and practice of public participation in planning. Examines and critiques participation techniques and roles of planners.

PUP 420 Theory of Urban Design

Analyzes the visual and cultural aspects of urban design. Theories and techniques applied to selected study models.

PUP 424 Planning Methods

Methods for urban planning research. Emphasizes research design, quantitative and qualitative methods, survey research, and data analysis.
PUP 425 Urban Housing Issues

Nature, dimensions, and problems of urban housing, government policy environment, and underlying economics of the housing market.

PUP 430 Transport Planning/Environment

Overview of transportation planning from the perspective of land use planning, economic development, environmental planning, and social needs.

PUP 436 City Structure and Planning

Political structure and organization of government as it relates to planning.

PUP 452 Ethics and Theory in Planning

Ethics and theory of professional planning practice in urban and regional communities.

PUP 465 Sustainable Urbanism

Examines the history, theory and practice of “sustainable urbanism,” now defined by reform movements such as new urbanism, ecological urbanism, smart growth, and livable cities.

PUP 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

PUP 494 Special Topics
Community Health & Sustainability
Covers topics of immediate or special interest to a faculty member and students.

PUP 494 Special Topics
Danish Arch&Urban Design
Covers topics of immediate or special interest to a faculty member and students.
PUP 494 Special Topics
Geodesign and Urban Planning
Covers topics of immediate or special interest to a faculty member and students.

PUP 494 Special Topics
Tribal Community Planning
Covers topics of immediate or special interest to a faculty member and students.

PUP 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

PUP 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

REL 100 Religions of the World

Introduces the history of religious traditions of the world, including Buddhism, Christianity, Hinduism, Islam, Judaism, and others.

REL 101 Religion, Culture, Public Life

Explores how religions are conditioned by cultural values and operate in the political sphere.
REL 107 Religion and Globalization

Explores how different religions interact with the various processes of globalization, including how the world's major religions have been transformed by economic, political, cultural, and technological aspects of globalization. Topics include religious terrorism, human rights, religion, and gender.

REL 201 Religion and the Modern World

Introduces the nature and role of religious beliefs and practices in shaping the lives of individuals and societies, with particular attention to the modern world.

REL 202 Religion and Popular Culture

Explores various intersectors between religion and the popular media, including music, news, advertising, the visual arts, literature, performance, and film.

REL 205 Life, Sex and Death

Ways that religions have understood birth, sexuality, death, and the passing of generations. Examples from traditions throughout the world.

REL 207 Ritual, Symbol, and Myth

Ritual, symbol, and myth as types of religious expression, with examples selected from the nonliterate religions of the world.

REL 301 Comparative Mysticism

Comparative examination of Eastern and Western mystical traditions from antiquity to the present.

REL 307 Approaches to Religion

Examines the intellectual history of academic study of religion through various theoretical approaches, major themes, and thinkers.
REL 307 Religion: Theory and Practice

Examines the intellectual history of academic study of religion through various theoretical approaches, major themes, and thinkers.

REL 315 Hebrew Bible (Old Testament)

Nature, content, background, historical situation, and message of the books of the Hebrew Bible in English translation.

REL 320 American Religious Traditions

Examines the formation, development, and interaction of major American religious traditions (indigenous, African American, Asian American, and Euro-American).

REL 321 Religion in America

History of religion in America with attention to issues of historiography, pluralism, gender, race, ethnicity, politics, and social reform.

REL 323 African American Religion

Examines the experiences, motivations, and contributions of a number of figures associated with African American religion.

REL 324 Spirituals and the Blues

Multidisciplinary exploration of the African American religious and musical response to the North American diaspora experience.
REL 330 Native American Worldviews

Presents worldviews through the art, architecture, writing, mythology, ritual and folklore of tribes in Native America.

REL 350 Hinduism

Studies diverse forms of Hinduism through its institutions, literature, folklore, art, and architecture.

REL 351 Buddhism

Doctrines, practices, and institutions of the Buddhist religion, emphasizing its role in the history and culture of Asian societies.

REL 366 Islam in the Modern World

Examines the worldwide transformations of Islamic religion, cultures, and societies in the modern period.

REL 371 New Testament


REL 374 Witchcraft & Heresy in Europe

Background, origins, and development of the Inquisition; persecution of women and marginal groups.

REL 382 Magick, Religion and Science

Relationship and conflict among magic, religion and science in the West from antiquity to the present.

REL 390 Women and Religion

Role of women in religious traditions and/or religious sects, including a study of myth and symbols as they are used to establish, maintain, and enforce sex roles within specific religions.
REL 390 Women, Gender and Religion

Examines the role of women and the construction and practice of gender identities across religious traditions and cultures.

REL 406 Religious Studies Capstone I

Develops skills necessary for conducting and presenting in-depth research in the field of religious studies.

REL 407 Religious Studies Capstone II

Uses previously developed research to produce original research project in religious studies.

REL 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ROM 101 Elementary Romanian

Basic grammar with intensive drills in class and lab directed toward conversational fluency.

ROM 442 Dracula and Vampire Lore

Vampire stories are not only local phenomena placed in Transylvania, as the common stereotype is incessantly spread. Legends about Dracula and the Count himself may be “untrue,” but events that took place during the life and reign of the Wallachian Voevode Vlad Tepes, better known as Vlad the Impaler, are nonfictional. He ruled during the time of the Ottoman Empire extension to Europe and his fight against the Turks give us thought on the altered understanding of Vlad as a vampire figure. Occurring and recurring in continuously changed environments, Count Dracula affects everyone to the same degree, but still remains as secret and elusive as before, pitted against a vision of mysterious spaces that evoke the faraway castles from Whitby, UK (the origin of Stoker’s Dracula), from Bran and Poenari Castles in Transylvania as well as the visions of Jules Verne’s Castle of the Carpathians.
ROM 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

ROM 598 Special Topics
Advanced Romanian
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SES 106 Habitable Worlds

Are we alone in the Universe? If so, why? If not, where are our cosmic cousins? Such questions, once the domain of science fiction, are on the verge of being answered with science facts. Astronomers are discovering planets around other stars. Planetary scientists are exploring the worlds in our solar system. Biologists are unlocking the secrets of metabolism and evolution. Geoscientists are determining how the Earth supports life. And as we struggle to build a sustainable future for ourselves, all of us are finding out how technologically advanced civilizations rise and how they might fall. This course surveys these topics. In the process, students master basic concepts from across the major areas of science and learn what makes the Earth a habitable world.
SES 141 Energy in Everyday Life

Energy is a concept that threads throughout science and engineering and is at the heart of understanding how the world around us works. What is energy? How is energy used in biological, chemical, electrical, mechanical, nuclear systems that impacts our daily lives? What would our world be like if there was a nearly infinite supply of inexpensive energy? Serves the needs of undergraduate students and future K-8 teachers of mastering basic concepts of energy generation, delivery, conversion, efficiency and what makes energy universal. This transdisciplinary online survey course helps students understand concepts and develop skills that crosscut scientific disciplines, such as the ability to observe, think critically and gather data to make order-of-magnitude estimates.

SES 194 Special Topics
Energy in Everyday Life
Covers topics of immediate or special interest to a faculty member and students.

SES 194 Special Topics
A Solar System Journey
Covers topics of immediate or special interest to a faculty member and students.

SGS 101 Think Global-Individ&Authority

Examines the changing notions of the individual and authority over history.

SGS 111 Global History Since 1500

Surveys Africa, the Americas, and Eurasia; changes in communication, communities, demography, economics, environment, politics, religion, technology, warfare, and women.
SGS 204 Prof Global Career Development

Orients the student to working in global contexts and to thinking critically about careers in the global arena. Focuses on working in organizational settings distinctly global. Three modules: nation-state, corporations, and working international organizations.

SGS 301 Principles of Global Studies

Presents current debates about globalization and subjects these to critical analysis.

SGS 303 Global Trends

Analyzes the process of globalization across boundaries through the investigation of the determinants and ramifications of globalization from the vantage of modern social sciences. Students are expected to conduct and articulate independent critical analyses toward a more in-depth understanding of this social phenomena, global history, and particularly the global economy.

SGS 304 Cross-Cultural Awareness

Addresses the theory and practice of studying, working and/or living in cultures other than your own, and focuses on cultural preparation to learn successfully in diverse cultures. Develops an awareness of intercultural sensitivity and recognizes its value, gains specific intercultural competencies (as defined within the course), and enables students to better understand their own culture so they can understand their host culture at a more meaningful level. Because of the variety of locations where students study or intern, focuses on culture-general skills, not culture-specific ones. Students also gain career development skills to prepare them to apply to study abroad programs and related scholarships, and guidance on how to best utilize international experiences for maximum benefit and long-term career planning.
SGS 305 Empirical Political Inquiry

Logic of political inquiry, including research problems, concepts, hypotheses, theories, measurement, data collection, and analysis.

SGS 315 Energy Policy

Examines the regulation of energy production and consumption in the U.S. at the federal, state and local levels. Identifies energy stakeholders in the U.S. and examines how they have shaped U.S. policies around energy. Explains past and current U.S. energy policies and how energy needs have shaped U.S. relations with other countries. Compares U.S. energy policies to that of other countries in the world, as well as how Arizona’s energy policies compare to other states within the U.S.

SGS 321 Int’l Insts & Global Gov

Provides an in-depth examination as to how the international community organizes itself, through international institutions, to deal with serious international issues, and how the institutions of international governance can be improved. Studies diverse examples of international institutions primarily from the perspective of international relations (IR) theory and the role of international law (IL).

SGS 340 Violence Conflict Human Rights

Interdisciplinary examination of the evolution and role of human rights in global society. Major themes include the political struggles over enforcement of human rights and curtailment of violence against individuals. Pays close attention to the role of non-governmental organizations and diplomacy in advancing human rights norms and also examines America’s role in human rights, both at home and abroad. Focuses on the causes and effects of violence and human rights abuses in the context of torture, the “war on terror,” and crimes against humanity.
SGS 350 Economic Dev & Globalization

Major issues and models in economic development. Studies development policy and foreign aid practiced since the 1970s and recent critique of these practices. Analyzes the mistakes made in the last 40 years, and potential for improving the practice of foreign aid. Contemporary issues in development economics, including the impacts of bad governance, foreign aid, corruption, war, military intervention and democracy on economic growth with emphasis on policy evaluations in health, education, microfinance and monitoring corruption.

SGS 360 Cultural Aspects Globalization

Cultural aspects of globalization, starting with a theoretical discussion of what culture is and then weaving this discussion into an empirical examination of UNESCO’s World Heritage program as a practical means of studying the role of culture in globalization. A number of questions guide our inquiry: What is culture? What forms does it take? Can culture be preserved? If so, what are the consequences? How is the UNESCO World Heritage Program structured? How does it conceive culture? What is its understanding of the global and the role of the local in it?

SGS 377 AZ Immigration, Latino Politics

Contemporary immigration and its related issues have generated significant debates, reforms and responses by government officials, businesses and private citizens, to name but a few in this country. This course provides a much-needed framework for understanding some of the immigration issues in Arizona and the country generally. It also focuses on some of the political responses by Latinos and their significant mobilization at the local, state and federal levels.

SGS 394 Special Topics
European Immigration
Covers topics of immediate or special interest to a faculty member and students.
SGS 394 Special Topics
Cross-Cultural Awareness
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
US as Global Superpower
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
Int’l Conflict Management
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
Contemporary African Diaspora
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
Ghana: Society, Culture, & Enviro
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
Global Problems and Debates
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
Politics of Global Justice
Covers topics of immediate or special interest to a faculty member and students.

SGS 394 Special Topics
The Resource Curse
Covers topics of immediate or special interest to a faculty member and students.
SGS 394 Special Topics
Greece and Macedonia
Covers topics of immediate or special interest to a faculty member and students.

SGS 401 Political Statistics

Basic concepts in statistics as they facilitate the description, explanation, and prediction of social and political phenomena.

SGS 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SGS 484 Internship
Ghana Study Abroad
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SGS 484 Internship
Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SGS 484 Internship
Global Experience
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SGS 494 Special Topics
Migration Environ&Gbl Security
Covers topics of immediate or special interest to a faculty member and students.

SGS 494 Special Topics
Politics & Culture of Ireland
Covers topics of immediate or special interest to a faculty member and students.
SLC 140 Grk&Lat Roots Biosctfc Trmnlgy

Introduces students to the ancient Greek and Latin root words most commonly used in biological, medical, and other scientific terminology, and gives practice identifying them in context. The knowledge of these root words enables students to memorize with greater ease and increased retention the bioscientific terminology they encounter in other coursework as well as in their medical or scientific profession.

SLC 201 Introduction to Linguistics

Examines the nature and diversity of world languages, linguistic structures and functions of language, language variation, pragmatics, and language acquisition.

SLC 223 Intro to Greek & Roman Myth

Familiarizes students with the characters and events of ancient Greek and Roman myths through their literary manifestations, and moves beyond mere narrative to consider the possible interpretations and functions of these myths, thus revealing the central concerns of ancient society and giving insights into the working of our own society and its literary and artistic traditions.
SLC 350 Mediterranean Lifestyle/Italy

Analyzes the Mediterranean lifestyle (food and eating practices) in Italy from a historical/cultural, scientific and sociological perspective. Students first examine the history and regional cultures of the Mediterranean diet in Italy as they analyze its rich biological diversity and history of cultural exchange. Students then gain an understanding of the critical nutrients of the Mediterranean diet and of the scientific evidence for its health benefits, especially how it can help prevent chronic diseases like obesity and type 2 diabetes, which affect more than half of all adults in the U.S. In addition, students keep a food log for one week, which they then analyze in terms of the critical nutrients of the Mediterranean diet. Finally, Italian food cannot be studied without preparing it! As UNESCO points out, the sharing of food is an important part of the Mediterranean lifestyle.

SLC 394 Special Topics
Food&Cult: Med Lifestyle Italy
Covers topics of immediate or special interest to a faculty member and students.

SLC 394 Special Topics
Culture&Society Transformation
Covers topics of immediate or special interest to a faculty member and students.

SLC 394 Special Topics
Religious Practice/ModernJapan
Covers topics of immediate or special interest to a faculty member and students.

SLC 394 Special Topics
Human Rights in Argentina
Covers topics of immediate or special interest to a faculty member and students.

SLC 394 Special Topics
Transcultural Connections
Covers topics of immediate or special interest to a faculty member and students.
SLC 423 Mafia and Film

Through an analysis of historical, anthropological, literary, political and cinematic texts, explores representations of the Italian organized crime in Italian and American films from the early 20th century to today. Discovers different “Mafias” originating in Italy, but whose reach extends much further, such as the Cosa Nostra in Sicily, the Camorra in Naples, and the ‘Ndrangheta in Calabria. Examines the fiction, stereotypes, myths and legends surrounding the mafia through a scrupulous analysis of some of the most important American and Italian films portraying mafia culture. Italians have used the medium of film to address the issue of the mafia, raising awareness about the harsh reality of life in the mafia and the ways in which it reaches into every aspect of Italian politics and society. Explores how Italian mafia films subvert international fascination with the mafioso by disrupting the glamorized myths that are mainly perpetuated by American popular cinema.

SLC 441 Fairy Tales

Foundational fairy tale texts collected by the Brothers Grimm and written by Hans Christian Andersen and their modern permutations reflect basic human desires, fears and aspirations as well as the values of the period in which they are written. These stories and their variants in popular culture across the globe permit students to reflect critically on the functions of fairy tales in both past and present civilizations. Students perceive the ways in which ancient tales can be utilized for various purposes and understand the contemporary theoretical debate on the study of fairy tales and their role in popular culture. Course taught in English.
SLC 442 Dracula and Vampire Lore

Vampire stories are not only local phenomena placed in Transylvania, as the common stereotype is incessantly spread. Legends about Dracula and the Count himself may be “untrue,” but events that took place during the life and reign of the Wallachian Voevode Vlad Tepes, better known as Vlad the Impaler, are nonfictional. He ruled during the time of the Ottoman Empire extension to Europe and his fight against the Turks give us thought on the altered understanding of Vlad as a vampire figure. Occurring and recurring in continuously changed environments, Count Dracula affects everyone to the same degree, but still remains as secret and elusive as before, pitted against a vision of mysterious spaces that evoke the faraway castles from Whitby, UK (the origin of Stoker's Dracula), from Bran and Poenari Castles in Transylvania as well as the visions of Jules Verne’s Castle of the Carpathians.

SLC 475 Latin American Film

Examines the role of film in contemporary Latin American culture; films viewed and analyzed as casebook examples. Focuses on the aesthetics and generic conventions of contemporary Latin American films.

SLC 494 Special Topics
Modernity in the Visual Arts
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Soc/Cltr in Modern Europe
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Dracula: Between Myth&History
Covers topics of immediate or special interest to a faculty member and students.
SLC 494 Special Topics
Jewish Culture Incentral Eu
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Ancient ArtClassical Tradition
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Mediterr Lifestyle/South Italy
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Politics & Culture of Ireland
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Mafia and Film
Covers topics of immediate or special interest to a faculty member and students.

SLC 494 Special Topics
Dracula and Vampire Lore
Covers topics of immediate or special interest to a faculty member and students.

SOC 101 Introductory Sociology
Fundamentals of sociology, organization of human groups and society, processes of interaction, and social change.

SOC 220 Sport and Society
Examines sports in American society as a source of socialization and an institution where gender, race/ethnicity, and class interact.
SOC 264 Gender and Society
Analysis of the development, nature, and consequences of gender in contemporary society.

SOC 270 Racial and Ethnic Relations
Problems of minorities in heterogeneous societies. Evaluates theories of prejudice and research dealing with discrimination, desegregation, and assimilation.

SOC 294 Special Topics
Culture and Everyday Life
Covers topics of immediate or special interest to a faculty member and students.

SOC 294 Special Topics
Cultivating Compassion
Covers topics of immediate or special interest to a faculty member and students.

SOC 294 Special Topics
Embracing Empathy
Covers topics of immediate or special interest to a faculty member and students.

SOC 312 Adolescence
In-depth examination of the developmental and social processes that help explain modern adolescence.

SOC 315 Courtship and Marriage
In-depth study of courtship, marriage, and related processes, focusing on problematic aspects of these institutions from the sociological perspective.

SOC 324 Work and the Workplace
Historical and comparative examination of changes in the structure and meaning of work and current shifts in people’s work lives.
SOC 334 Technology and Society

Development of technology in relation to society, work, science, the environment, public health, and cultural values related to social change.

SOC 340 The Sociology of Deviance

Sociological analysis of stigmatized behaviors and conditions, including the causes, effects, and management of stigma.

SOC 350 Inequality/Diversity Education

Advanced exploration of various dimensions of diversity in relation to educational systems and outcomes. Through sociological and psychological research, case studies and films, students examine how educational inequality is created and reproduced through individual actions and institutional constraints. Also considers the connection between schooling and human rights and ways in which educational inequality may be addressed.

SOC 352 Social Change

Patterns of social change, resistance to change, and change-producing agencies and processes.

SOC 390 Social Statistics I

Descriptive and inferential statistical methods for analysis of social data. Computer applications.

SOC 391 Research Methods

Methods of social science research, including the fundamental assumptions underlying research, critique, research design, data collection, and data analysis.
SOC 418 Aging and the Life Course

Examines aging as a process of change and adaptation over the lifespan, patterned by social, cultural, and historical forces.

SOC 424 Women and Health

Women as healthcare workers and an in-depth analysis of issues of health, illness, and healthcare for women

SOC 427 Sociology of Health/Illness

Social aspects of illness and sociological analysis of the healthcare system and its practitioners.

SOC 435 Adv Marriage/Family Reltnshps

In-depth examination of research, issues, and trends relating to marriage and family interaction.

SOC 483 History of Social Thought

Social thought in human culture. Background of modern sociology.

SOC 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SOC 498 Pro-Seminar
Soc & Fam Dyn Through Wonder
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SOC 498 Pro-Seminar
Soc & Fam Dyn Through Wonder
Small-group study and research for advanced students within their majors.
SOC 498 Pro-Seminar
Understand Bullying&Prevention
Small-group study and research for advanced students within their majors.

SOC 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

SOC 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

SOC 500 Research Methods

Course on research methods in a specific discipline.

SOC 501 Social Statistics

Understands and uses statistics for applications in the social sciences.

SOC 585 Sociological Theory

Analyzes major sociological theories, from classical to contemporary.

SOC 586 Capstone I

Professional exploration and goal specification for non-thesis capstone project.
SOC 587 Capstone II
Develops professional expertise and area of focused interest.

SOC 588 Capstone III
Applies developed expertise and knowledge to professional goal.

SOC 590 Reading and Conference
Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

SOC 598 Special Topics
Statistics for Social Sciences
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOC 598 Special Topics
Perspectives-Marriage & Family
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOC 598 Special Topics
Diversity and Society
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SOC 598 Special Topics
Deviance
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOC 598 Special Topics
Finland, Sweden and the US
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOC 598 Special Topics
Leadership & Social Justice
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOC 598 Special Topics
Social Change & Adjustment
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOC 598 Special Topics
Marriage & Family Relationships
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOC 598 Special Topics
Diversity
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SOC 598 Special Topics
Social Change and Innovation
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPA 101 Elementary Spanish
Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

SPA 101 Elementary Spanish I
Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

SPA 102 Elementary Spanish
Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

SPA 102 Elementary Spanish II
Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

SPA 111 Fundamentals of Spanish
Primarily for students with two years of high school Spanish who need review to enter second-year study.

SPA 194 Special Topics
High Beg Spanish Language
Covers topics of immediate or special interest to a faculty member and students.

SPA 194 Special Topics
Beginning Spanish Language
Covers topics of immediate or special interest to a faculty member and students.
SPA 194 Special Topics
Gateway to Spanish
Covers topics of immediate or special interest to a faculty member and students.

SPA 201 Intermediate Spanish
Continuation of fundamentals. Emphasizes the development of the skills of reading, listening comprehension, speaking, writing, and culture.

SPA 202 Intermediate Spanish
Continuation of fundamentals. Emphasizes the development of the skills of reading, listening comprehension, speaking, writing, and culture.

SPA 203 Intermed Spanish for Bilingual
For Spanish-speaking students, in lieu of SPA 201. Composition, literature, conversation, grammar fundamentals.

SPA 203 Intermed Spanish I Bilinguals
In lieu of SPA 201. For heritage learners who have been exposed to Spanish from the household, relatives or community and who can understand and hold a basic conversation in the language. Builds on the skills students already have in order to expand their written and oral proficiency for real communication in a confidence-building environment. Students also explore their cultural heritage and learn about Hispanic cultures in the United States and the language diversity of its speakers.

SPA 204 Intermed Spanish for Bilingual
For Spanish-speaking students, in lieu of SPA 202. Composition, literature, conversation, grammar fundamentals.
SPA 204 Intermed Spanish II Bilinguals

For heritage learners who have been exposed to Spanish from the household, relatives or community and who can understand and hold a conversation in the language. Builds on the Spanish language skills students already have in order to expand their written and oral proficiency in a nurturing environment. Students also learn about Hispanic cultures, traditions and customs in the United States and Latin America and the language diversity of its speakers.

SPA 313 Spanish Conversation and Comp

Designed to develop skill and accuracy in spoken and written Spanish. Required of majors; SPA 313 and 314 must be taken in sequence.

SPA 314 Spanish Conversation and Comp

See SPA 313.

SPA 315 Spanish Convers/Comp Bilingual

Emphasizes comparing standard Spanish with regional Southwest Spanish. May be taken in lieu of SPA 313.

SPA 315 Advanced Spanish I Bilinguals

In lieu of SPA 313. For heritage learners who have been exposed to Spanish from the household, relatives or community and who can speak and understand the language. Students strengthen their written and oral language to use them fluently in professional and academic contexts. Provides a rich cultural context to critically examine issues related to language and Spanish speakers in the United States.

SPA 316 Spanish Convers/Comp Bilingual

See SPA 315.
SPA 316 Advanced Spanish II Bilinguals

In lieu of SPA 314. For heritage learners who have been exposed to Spanish from the household, relatives or community and who can read and write in the language. Students continue to strengthen their written and oral language to develop advanced skills for use in professional, educational and academic contexts. Provides a dynamic cultural context to critically examine issues related to Hispanic communities, bilingualism and education in the United States.

SPA 319 Business Correspondence/Comm

Organization and presentation of clear, effective business communications; vocabulary applicable to modern business usage.

SPA 325 Intro to Hispanic Literature

Critical approach to and analysis of literary types, including poetry, drama, short story, and novel. Required of all majors.

SPA 394 Special Topics
Spanish for Sustainability
Covers topics of immediate or special interest to a faculty member and students.

SPA 394 Special Topics
Latin American Culture
Covers topics of immediate or special interest to a faculty member and students.

SPA 394 Special Topics
Span Cult-Hist, Art & Trad
Covers topics of immediate or special interest to a faculty member and students.

SPA 394 Special Topics
Transcultural Connections
Covers topics of immediate or special interest to a faculty member and students.
SPA 394 Special Topics
Advanced Mayan Culture
Covers topics of immediate or special interest to a faculty member and students.

SPA 394 Special Topics
Spanish for Business
Covers topics of immediate or special interest to a faculty member and students.

SPA 394 Special Topics
Human Rights in Argentina
Covers topics of immediate or special interest to a faculty member and students.

SPA 400 Intro to Spanish Linguistics
Introduces the discipline and methods of linguistics through the study of Spanish data.

SPA 400 Fundamentals/Span Linguistics
Introduces the discipline and methods of linguistics through the study of Spanish data.

SPA 412 Adv Conversation/Composition
Oral and written Spanish communication skills, with particular attention given to developing fluency and facility. Required of majors.

SPA 413 Advanced Spanish Grammar
Intensive analysis of the Spanish language. Required of teaching majors.

SPA 413 Spanish Grammar in Context
Intensive analysis of the Spanish language. Required of teaching majors.
SPA 414 Spanish for Sustainability

Provides language skills to engage in meaningful communication and official transactions in sustainability and environmental studies with an intermediate to high level of Spanish speaking, reading and writing competence.

SPA 417 Spanish Phonetics/Phonology

Introduces the theory and practice of Spanish phonetics and phonology.

SPA 417 The Sounds of Spanish

Analyzes the speech sounds of the Spanish language, including articulatory and acoustic phonetics as well as phonology.

SPA 419 Language Variations of Spanish

Spanish dialectology and variationist/quantitative sociolinguistics.

SPA 419 Spanish Around the World

Spanish dialectology and variationist/quantitative sociolinguistics.

SPA 420 Applied Spanish Linguistics

Applies linguistic principles to the teaching of Spanish.

SPA 425 Spanish Literature

Surveys Spanish literature from its beginning to 1700.

SPA 425 Foundational Texts of Spain

Surveys Spanish literature from its beginning to 1700.
SPA 426 Spanish Literature

Surveys Spanish literature from 1700 to the present.

SPA 426 Lit & Society in Modern Spain

Surveys Spanish literature from 1700 to the present.

SPA 427 Spanish American Literature

Surveys major works, figures, and movements from Colonial period to 1880.

SPA 427 Colonial&Postcol Latin Am Lit

Surveys major works, figures, and movements from Colonial period to 1880.

SPA 428 Spanish American Literature

Surveys major works, figures, and movements from 1880 to the present.

SPA 428 Found Texts Latin Am Lit Mod

Surveys major works, figures, and movements from 1880 to the present.

SPA 429 Mexican Literature

Selected readings from pre-Columbian writers/poets (e.g., Macuilxochitl) through the novel of the Revolution to the present.

SPA 429 Mexican Literature

Selected readings from pre-Columbian writers/poets (e.g., Macuilxochitl) through the novel of the Revolution to the present.
SPA 429 Writing Mexico: Major Texts

Selected readings from pre-Columbian writers/poets (e.g., Macuilxochitl) through the novel of the Revolution to the present.

SPA 464 Mexican American Literature

Representative literature in Spanish and English by Mexican Americans, emphasizing sociocultural as well as literary values.

SPA 464 Jaiton Works in Chicano/a Lit

Representative literature in Spanish and English by Mexican Americans, emphasizing sociocultural as well as literary values.

SPA 464 Jaitón Works in Chicano/a Lit

Representative literature in Spanish and English by Mexican Americans, emphasizing sociocultural as well as literary values.

SPA 470 Law, Societies&Jus Lat-Am

Reviews justice-related sociological and criminological theories in the target language. Introduces the application of social theories and human right principles to the issues affecting Latino communities both in Latin America and the United States. Students engage in critical inquiries and focused research to develop culturally sensitive and insightful solutions to criminal and justice-related topics that affect Latinos in their communities (physical or virtual).

SPA 471 Civilization Spanish Southwest

Political, intellectual, social, economic, and artistic development of the Spanish-speaking people of the Southwest.
SPA 471 Indohispanomexicano Civilizatn

Political, intellectual, social, economic, and artistic development of the Spanish-speaking people of the Southwest.

SPA 472 Spanish American Civilization

Growth of the institutions and cultures of Spanish American people.

SPA 472 Latin Am Society:5 CaseStudies

Growth of the institutions and cultures of Spanish American people.

SPA 473 Spanish Civilization

Political, intellectual, social, economic, and artistic development of the Spanish nation from its origin to the present.

SPA 473 Old&New Spaniard:Cul&Civ Spain

Political, intellectual, social, economic, and artistic development of the Spanish nation from its origin to the present.

SPA 475 Latin American Film

Examines the role of film in contemporary Latin American culture; films viewed and analyzed as casebook examples. Focuses on the aesthetics and generic conventions of contemporary Latin American films.

SPA 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SPA 486 Mexican American Novel

Social and literary contexts of representative novelists, emphasizing their Spanish-language writings.
SPA 486 Chicano/a Novel: Ultima, Rafa

Social and literary contexts of representative novelists, emphasizing their Spanish-language writings.

SPA 494 Special Topics
Themes in Spanish Literature
Covers topics of immediate or special interest to a faculty member and students.

SPA 494 Special Topics
Spanish with a Legal Focus
Covers topics of immediate or special interest to a faculty member and students.

SPA 494 Special Topics
Spanish Cinema
Covers topics of immediate or special interest to a faculty member and students.

SPA 494 Special Topics
Law, Societies & Justice/LatAm
Covers topics of immediate or special interest to a faculty member and students.

SPA 494 Special Topics
Advanced Spanish/Healthcare
Covers topics of immediate or special interest to a faculty member and students.

SPA 494 Special Topics
Spanish Culture through Selfie
Covers topics of immediate or special interest to a faculty member and students.

SPA 494 Special Topics
Ancient & Modern Mayan Culture
Covers topics of immediate or special interest to a faculty member and students.
SPA 494 Special Topics
Film, Lit Leon & Barcelo, Spain
Covers topics of immediate or special interest to a faculty member and students.

SPA 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

SPA 550 Spanish for Reading Knowledge

Teaches nonspeakers of foreign language, or those with only basic notions of the language, how to read in a foreign language at an advanced level. Emphasizes developing reading and translation skills through exposure to a variety of texts (journalistic, historical, literary and scientific). Requires no previous knowledge of Spanish.

SSH 402 Commnty Partnrshps Global Hlth

Supervised community-based activities relevant to a global perspective on contemporary U.S. health. Addresses community-identified issues using appropriate methodologies.

SSH 403 Cross-Culturl Stds Global Hlth

Direct investigations of society, ecology, and health in international settings.
SST 520 Learning Tech-Native Education

As the Internet and digital devices become more accessible in Indian country, educators are increasingly developing digital systems for formal and informal learning environments. From distance learning systems to digital language learning and apps for informal learning, this course reviews types of educational technologies in different American Indian and Indigenous educational settings, highlighting the relationship among technical affordances, pedagogical approaches, and social impacts. Students (1) understand how technical affordances shape learning in face-to-face and online environments; (2) describe the relationship between digital learning tools and curricular and programmatic objectives; and (3) describe and propose the basic limitations and possibilities of types of educational technologies for specific American Indian and Indigenous educational settings.

SST 530 Culture and Education

Examines the relationship between local cultures, local knowledge and education. Drawing from comparative and international education and paying particular attention to the world's most marginalized populations--Indigenous peoples. Additionally, explores historical trajectories of education, the global expansion of schooling, state and international education and language policies, as well as notions of local/Indigenous resistance, agency, response and educational innovation. Three major sections comprise the course: (1) patterns in education and language policy for historically underrepresented and underserved populations; (2) the role of families, communities and local and place-based pedagogies; and (3) alternative models of education toward social transformation.

STP 226 Elements of Statistics

Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation. Not open to majors in mathematics or the physical sciences.
STP 226 Elements of Statistics

Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation.

STP 231 Statistics for Biosciences

Concepts and methods of statistics; display and summary of data, interval estimation, hypothesis testing, correlation, regression. Applications to biological sciences.

STP 420 Introductory Applied Statistic

Introductory probability, descriptive statistics, sampling distributions, parameter estimation, tests of hypotheses, chi-square tests, regression analysis, analysis of variance, and nonparametric tests.

TCL 270 Race & Gender in American Film

Explores how Hollywood shapes perceptions of race and gender in American society. Fee.

TCL 314 Transborder Immigration & Econ

Historical/contemporary overview of Mexican immigration into and within the U.S.; factors affecting population movement, settlement patterns, and migrants’ incorporation into society.

TCL 332 Mexican Amer Hist Since 1900

Traces the formation of Mexican American communities across the rural and urban U.S. and examines 20th-century immigration from Mexico.
TCL 360 Inequality/Diversity Education

Advanced exploration of various dimensions of diversity in relation to educational systems and outcomes. Through sociological and psychological research, case studies and films, students examine how educational inequality is created and reproduced through individual actions and institutional constraints. Also considers the connection between schooling and human rights and ways in which educational inequality may be addressed.

TCL 377 AZ Immigration, Latino Politics

Contemporary immigration and its related issues have generated significant debates, reforms and responses by government officials, businesses and private citizens, to name but a few in this country. This course provides a much-needed framework for understanding some of the immigration issues in Arizona and the country generally. It also focuses on some of the political responses by Latinos and their significant mobilization at the local, state and federal levels.

TCL 471 Latinos In Hollywood

Studies representations of Latinos in film; stereotyping, politics of metaphor, allegory, star discourse, self-representation, resistance, and independent film.

VTN 101 Elementary Vietnamese I

Basic skills in modern conversational Vietnamese and development of basic reading and writing skills, with special emphasis on tones.

VTN 102 Elementary Vietnamese II

Basic skills in modern conversational Vietnamese and development of basic reading and writing skills, with special emphasis on tones.
WST 100 Women, Gender, and Society

Interdisciplinary introduction examining critical issues in women's studies.

WST 300 Women & Gender Contemporary Soc

Advanced interdisciplinary examination of such topics as gender, intersectionality, media and representations, sexuality, politics, health, violence and feminism.

WST 313 Women and Sexuality

Critical analysis of the social context of women's sexuality including such topics as medicalization, racialization, media and popular culture, social justice and policy.

WST 313 Women and Sexuality

Explores U.S. women's sexuality in social context, including how women's sexuality is portrayed in popular media, medicine and education; how girls learn to think about sexuality; and how public policies address women's sexuality.

WST 320 Gender, Drugs and Alcohol

Drug and alcohol use have multiple and diverse meanings shaped by their historical, social and cultural context. Examines how and why alcohol and drug use have been identified as social problems and the role of gender in shaping this process. Reviews multiple social and cultural aspects of gender, drug and alcohol use, as well as the emergence of gender-based health disparities within this context. Fulfills a science and society requirement. Basic scientific principles such as the formulation of research questions, data collection and analysis, have been used to develop our understanding of gender, drugs and alcohol. How society influences the nature of those questions, the perceived value attached to particular scientific studies over others, and how to critically evaluate law and policy around drugs and alcohol in light of those studies.
WST 331 Asian Pacific American Genders

Explores gender and sexuality issues as they relate to Asian Pacific American experiences, including interracial relationships, stereotypes, feminism, queer theory.

WST 331 Asian Pacific American Genders

In-depth exploration of gender and sexuality issues as they relate to Asian Pacific American experiences, including interracial relationships, stereotypes, feminism, queer theory.

WST 335 Gender, Race, & Sex in Sci Fi

Surveys the complex interrelationships of biomedical research and discourses of biological difference as reflected in science fiction. Explores such questions as: How have biological scientists explained human differences along axes of gender, race, class, sexuality? In what ways have these scientific discussions manifested themselves in science fiction?

WST 365 Women Int'l Health

Advanced study of gender-based disparities and global health, including impact of poverty, gender discrimination, political economy, and culture.

WST 371 Sex and the City

An in-depth study of the changing media representations of young, sexually autonomous women in the city.

WST 374 Desperate Housewives

In-depth examination of the representations of women as wives and/or mothers in the popular discourse from the 20th century to current day through an analysis of various forms of popular culture such as film, magazines, popular writing and television.
WST 377 History/Amer Feminist Thought

Critical analysis of the origins and development of American feminist thought and political movements.

WST 378 Global Feminist Theory

In-depth studies of global feminist theories and exploration of the intersections of gender, race, ethnicity, class, and nation through critical analysis.

WST 380 Race, Gender, and Class

In depth examination of how social inequalities are reproduced and perpetuated. Explores the intersections of race, class, and gender in culture and society.

WST 394 Special Topics
Women, Power and Leadership
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Religion, Sex, Power, Erotism
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Desperate Housewives
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Masculinities
Covers topics of immediate or special interest to a faculty member and students.
WST 394 Special Topics
Sex, Violence, and the Media
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Gender, Drugs and Alcohol
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Harry Potter: Gender, Race & Class
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Cyberfeminisms
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Fast Food Nation
Covers topics of immediate or special interest to a faculty member and students.

WST 394 Special Topics
Gender and Hip Hop
Covers topics of immediate or special interest to a faculty member and students.

WST 421 Girlhood and Adolescence

Critical analysis of the changing construction of girlhood and female adolescence through history, memoir, fiction, myth, music, and media.

WST 460 Women and the Body

In-depth analysis of the cultural construction of the gendered body and societal prescriptions about beauty, body image, and size.
WST 498 Pro-Seminar  
**#Feminism in Social Media**  
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

WST 498 Pro-Seminar  
**#Feminism in Social Media**  
Small-group study and research for advanced students within their majors.

WST 498 Pro-Seminar  
Small-group study and research for advanced students within their majors.

WST 499 Individualized Instruction  
Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

WST 499 Individualized Instruction  
Provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis.

WWS 561 Decision Points I  
In-depth analysis of the origins, impact and controversies over the key decisions related to the beginning and early years of World War II, with an emphasis on the contingent nature of historical events.
WWS 562 Decision Points II

In-depth analysis of the origin, impact and controversies over the key decisions related to the later years and the ending of World War II, with an emphasis on the contingent nature of historical events.

WWS 563 The Lived Experience of WWII

Using the vast oral history collection of the National World War II Museum in New Orleans, Louisiana, this course examines how individuals experienced the war. A number of factors shaped how people experienced the war—whether one was a soldier, non-combatant, resistor or collaborator. Focuses on how ordinary people made sense of their experiences during the war. In addition, students explore the theory and practice of collecting and using oral histories.

WWS 564 The Global War

Examines the global dimensions of World War II with particular focus on those regions which have been deemphasized in Western historical discourse.

WWS 566 World War II Today

Analyzes the impact and legacy of World War II, with an emphasis on the roots of contemporary problems and issues. A global conflict that impacted millions of people, World War II fundamentally reshaped the political and cultural landscape of our planet. Explores the new global order that emerged after the end of World War II in 1945. While the war had immediate impacts in the postwar era, the legacy of the war continues to inform current conflicts across the globe and resonates in the current social and political order. This is especially apparent in how contemporary narratives situate, remember and memorialize the war. Uses themes to help us think historically and uncover the historical roots of the present order.
WWS 567 World War II in Film

Offers a comprehensive survey of how film has represented the Second World War. Using a transdisciplinary approach, studies how films from the time of the Second World War to the present have portrayed that conflict. Compares different perspectives on the causes and results of the war, as well as engage in analysis of how important issues such as international political and economic relationships, religion, gender, ethnicity, class, race, technology and the psychological effects of violence get shown in movies about World War II.

WWS 598 Special Topics
Leadership in WWII
Topical courses not offered in regular course rotation (e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand).

WWS 598 Special Topics
Mental Health Ethics in WWII
Topical courses not offered in regular course rotation (e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand).

BLE 220 Foundations of SEI

Examines current educational practices and historical legal issues. Prepares teacher candidates with a provisional Structured English Immersion endorsement.
BLE 221 Theories Acquiring & Learn Lang

Languages are tools people use and learn to use for a variety of purposes. While nearly all people naturally acquire at least one language in their lifetime, the construct of bilingualism or multilingualism can occur as either an elective or a forced process. The context or the decision that leads to second or multiple language learning can have profound effects on the way and the extent to which those languages are learned. Examines the variables affecting both language acquisition and language learning as well as some methods to better facilitate these processes.

BLE 520 ESL for Children

Examines approaches to second-language development for children congruent with recent research in second-language acquisition in children.

BLE 520 ESL for Children

Examines approaches to second-language development for children congruent with recent research in second-language acquisition in children.

BLE 522 Literacy/Biliteracy Developmnt

Acquaints teachers with first- and second-language literacy research, practice, and assessment in elementary school settings (Spanish-English emphasis)

Acquaints teachers with first- and second-language literacy research, practice, and assessment in elementary school settings (Spanish-English emphasis)

BLE 529 Lang Assess & Eval ESL/BLE St

Assessment and evaluation of linguistic minorities; test theory, score interpretation; culturally responsive assessment; assessment of language and school achievement.
BLE 529 Lang Assess & Eval ESL/BLE St

Assessment and evaluation of linguistic minorities; test theory, score interpretation; culturally responsive assessment; assessment of language and school achievement.

BLE 535 Sociolinguistic Iss/Bilingual

Surveys major theoretical issues (e.g., language situations, communicative competence, language attitudes) interrelating language, social processes, and bilingual education.

BLE 561 Parent Involvement in Language

Examines issues, approaches, and strategies for improving parental and community involvement in the schooling of language minority children and youth.

BLE 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.
BLE 597 Capstone

Reflective, experience-based integration of theory and practice; professional development for individuals working with English language learners.

COE 501 Intro to Resrch & Eval in Educ

Overview of educational inquiry from controlled, quantitative to qualitative, naturalistic. Emphasizes locating and critically interpreting published research.

COE 501 Intro to Resrch & Eval in Educ

Overview of educational inquiry from controlled, quantitative to qualitative, naturalistic. Emphasizes locating and critically interpreting published research.

COE 501 Intro to Research/Eval in Educ

Overview of educational inquiry from controlled, quantitative to qualitative, naturalistic. Emphasizes locating and critically interpreting published research.

DCI 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.
DCI 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

ECD 220 Intro to Nutrition, Health & Safety

Emphasizes providing proper nutrition, promoting a safe but challenging learning environment, and becoming knowledgeable of a child's health status. Also covers practical applications for assisting young children to develop good habits and attitudes and to assume lifelong responsibility for their own well-being.

ECD 310 Appl Early Child Development

Conveys knowledge of how development is both unique and interconnected. Takes a highly applied approach to build participants' knowledge, recognition and use of evidence-based practices within preschool classrooms that support children's development, both within and across domains.
ECD 325 Support Dual Language Learners

Increases students' knowledge of the language development of Dual Language Learners (DLLs), the role of home language in assessment and instruction, as well as knowledge and application of instructional practices to support DLLs' oral language and emergent literacy practices. Students design and implement activities for working with young children who are DLLs and their families.

ECD 327 Becoming a Teacher Leader

Guides students to explore their own evolving identity in the early childhood education field. Teaches what being a professional means in the ever-evolving field of early childhood education and how one can continue to develop and grow as a professional. Uses several important tools, such as portfolios, video technology and sharing practice in professional learning communities. Covers the larger historical and contemporary context of the field of early childhood education. Readings, video and writing assignments, and discussions create space for students to understand and examine themselves in this profession.

ECD 503 Intro to Research/Eval in Educ

Overview of educational inquiry from controlled, quantitative to qualitative, naturalistic. Emphasizes locating and critically interpreting published research.

ECD 505 Foundations Early Childhood Ed

Foundational basis of the early childhood field, including historical roots, current practices, ethics, models of teaching, and application in early childhood settings.
ECD 505 Foundations Early Childhood Ed

Foundational basis of the early childhood field, including historical roots, current practices, ethics, models of teaching, and application in early childhood settings.

ECD 520 Child Guidance

Introductory exploration of a variety of techniques for developing a positive classroom environment. Includes overview of several classroom and school management programs and possible effects of implementation. Focuses on observations made during the students’ classroom and field experiences. Provides the catalyst for introducing students to the program’s professional portfolio requirement.

ECD 525 Emergent Literacy

Examines recent research on oral language and literacy development and effective strategies for teaching language and literacy in prekindergarten to grade 3, including phonemic awareness and alphabet instruction and beginning decoding.

ECD 525 Emergent Literacy

Examines research on oral language and literacy development and effective strategies for teaching language and literacy in birth to grade 1, including phonemic awareness and alphabet instruction and beginning decoding.
ECD 525 Emergent Literacy

Examines current and classic research on oral language and literacy development and effective strategies for teaching language and literacy from birth through kindergarten, including phonemic awareness and alphabet instruction and beginning decoding.

ECD 526 Integrated Literacy

Surveys appropriate teaching and assessment methodologies to support integrated and balanced literacy approaches K-3.

ECD 526 Integrated Literacy

Examines current and classic research on language and literacy development and effective strategies for teaching and assessing language and literacy from kindergarten through third grade.

ECD 526 Integrated Literacy

Examines current and classic research on language and literacy development and effective strategies for teaching and assessing language and literacy from kindergarten through third grade.

ECD 527 Math in Early Childhood Educ

Theory and practice in the use of manipulative materials for teaching mathematics to preschool and primary grade children.
ECD 527 Math in Early Childhood Educ

Explores methods of teaching and assessing mathematical skills and reasoning in children ages birth through third grade along with the broader impact of math literacy in young children.

ECD 527 Math in Early Childhood Educ

Explores methods of teaching and assessing mathematical skills and reasoning in children ages birth through third grade along with the broader impact of math literacy in young children.

ECD 541 Assessment of Young Children

Assessment principles, techniques, and issues related to guiding learning for children birth through eight years. Test construction, interpretation and communication.

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Assessment principles, techniques, and issues related to guiding learning for children birth through eight years. Test construction, interpretation and communication.

ECD 541 Assessment of Young Children

Assessment principles, techniques, and issues related to guiding learning for children birth through eight years. Test construction, interpretation and communication.

ECD 549 Found Div, Human Dev & Child

Historical foundations and theories of child development as examined with a concern for diversity, multidirectional human change, and cultural embeddedness.

ECD 549 Found Div, Human Dev & Child

Psychology of learning and instruction, including the foundations of learning theories and their application to educational practice with an emphasis on diversity, multidirectional human change and cultural embeddedness.
ECD 549 Found Div, Human Dev & Child

Psychology of learning and instruction, including the foundations of learning theories and their application to educational practice with an emphasis on diversity, multidirectional human change and cultural embeddedness.

ECD 565 Instructional Methods ECD

Surveys appropriate teaching methodologies for young children across the curriculum.

ECD 565 Instructional Methods ECD

Surveys appropriate teaching methodologies for young children across the curriculum.

ECD 567 Clinical Experience: ECD

Applies course content in early childhood education preschool classrooms birth to age 5: emphasizes observation, pupil management, planning and delivery of instruction, and assessment.

ECD 567 Clinical Experience: ECD

Applies course content in early childhood education preschool classrooms birth to age 5: emphasizes observation, pupil management, planning and delivery of instruction, and assessment.

ECD 570 Pre-K Internship

Field experience consisting of 30 total hours of work with children between the ages of birth-age 4. Required for Arizona Dept. of Education Early Childhood Endorsement.

ECD 570 Pre-K Internship

Field experience working with children between the ages of birth-age 4. Required for Arizona Dept. of Education Early Childhood Endorsement and Certification.
ECD 571 Pre-K Student Teaching

Supervised field experience consisting of 160 total hours of work with children between the ages of birth to age 4.

ECD 571 Pre-K Student Teaching

Supervised student teaching in which a student works with children between the ages of birth to age 4.

ECD 577 Practicum: Early Childhood

Student teaching in early childhood education classrooms ages birth to 5: synthesized experience in curriculum, instruction, assessment and classroom management.

ECD 577 Practicum: Early Childhood

Student teaching in early childhood education classrooms ages birth to 5: synthesized experience in curriculum, instruction, assessment and classroom management.

ECD 578 Student Teach Early Child(K-3)

Supervised teaching in the K-3 classroom setting. Synthesized experience in curriculum, instruction, classroom organization, and guidance of young children.

ECD 578 Student Teaching: ECD K-3

Student teaching in early childhood education classrooms grades K-3: synthesized experience in curriculum, instruction, assessment and classroom management.

ECD 578 Student Teaching: ECD K-3

Student teaching in early childhood education classrooms grades K-3: synthesized experience in curriculum, instruction, assessment and classroom management.
ECD 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

ECD 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

ECD 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

ECS 312 Soc and Em Devpt of Yng Child

Examines genetic, environmental and biological influences on typical and atypical social and emotional developmental processes through current research, current issues, as well as connections to practice.

ECS 312 Soc and Em Devpt of Yng Child

Examines genetic, environmental and biological influences on typical and atypical social and emotional developmental processes through current research, current issues, as well as connections to practice.

ECS 321 Comm, Lang Dev and Emerg Lit

Language and literacy development; language acquisition; methods of facilitating oral language in relation to emergent reading and writing; methods of facilitating early literacy development; clinical observation.

EDA 501 Competency/Perform Educ Adm

Nature of educational administration and the concept of competency as it applies to educational administration.
EDA 505 American Education System

Political, social, historical, and philosophical analyses of American education at all levels. Examines primary sources, legal findings, and case studies.

EDA 511 School Law

Interpreting state and federal law and policy in school settings. Includes statutory authority for administrators, liability, constitutional rights, law, and ethics.

EDA 514 Leadership in Curric/Assessmnt

Curriculum and assessment responsibilities of school administrators.

EDA 526 Instructional Supervision

Administering curriculum improvement, in-service education, evaluating, and improving teaching competence; administrative instructional responsibilities.

EDA 548 Sch, Family/Comm Connections

Administrative factors of primary importance in developing community involvement in public schools. Emphasizes theory and skill of school system and individual communication.

EDA 572 School Finance&Human Resources

Effective ethical models and strategies for organizing and administering the conduct of school site human resources administration and school financial affairs.

EDA 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.
EDA 634 Instructional Leadership

Theory, practice, and issues in school change and reform with a focus on leading change efforts at the school site.

EDA 684 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

EDP 310 Ed Psychology for Non-Teachers
Multicultural Issues
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Children and Poverty
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Developing as a Leader
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Motivation
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Emotional Intelligence
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.
EDP 310 Ed Psychology for Non-Teachers
Learning and Memory
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Immigration, Education & Family
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Understanding the Brain
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Gender Development
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Career and Professional Dev
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Children and Poverty
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.
EDP 310 Ed Psychology for Non-Teachers
Emotional Intelligence
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Immigration, Education & Family
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Career and Professional Development
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Gender Development
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Motivation
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Learning and Memory
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.
EDP 310 Ed Psychology for Non-Teachers
Understanding the Brain
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Multicultural Issues
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 310 Ed Psychology for Non-Teachers
Developing as a Leader
Human behavior in educational situations. Individual differences, factors affecting learning, behavioral and cognitive learning, motivation, testing, and assessment.

EDP 311 Ed Psych for Future Teachers
Planning and conducting effective instruction based on learning theories and principles.

EDP 313 Childhood and Adolescence
Principles underlying total development of pre- and early-adolescent children. Emphasizes physical, intellectual, social, and emotional development with practical implications for teachers. Meets ADE requirement for one course in early adolescent psychology for middle grade endorsement.

EDP 540 Theoretical Views of Learning
Classical and cognitive theories of learning, plus recent orientations. Illustrative experimental and rational foundations; implications for educational practice.
EDP 540 Learning Theories & Instruct Stratg

Studies grounded instructional strategies rooted in established theories of learning to form the basis of building instruction. Explores how teaching, learning and performing can be designed via technological environments to support instruction.

EDT 180 Problem Solving Dig Tech Apps

Introducing digital technologies and their place in society. Applies 21st-century skills to problem solving using digital technology applications including spreadsheets and databases.

EDT 180 Tech Ltrcy Prblm Slvng DigTech

Introducing digital technologies and their place in society. Applies 21st-century skills to problem solving using digital technology applications including spreadsheets and databases.

EDT 321 Computer Literacy

Surveys the role of computers in business, industry, education, and personal life. Lab experience with word processing, spreadsheet, and presentation software as well as Internet research and the creation of a personal Web site.
EDT 321 Mobile Technologies & Your World

Uses mobile technologies across disciplines for communication, collaboration, creativity and problem solving. Employs digital tools including Microsoft Office’s spreadsheets and databases, Google apps, mobile apps, and a variety of other Web-based tools in problem-based environments. Students must have a personal mobile device to bring to class. Mobile technologies include laptops, notebooks, tablets and smartphones that share data and applications through cloud-based computing.

EDT 321 Computer Literacy: Mobile Tech

Uses mobile technologies across disciplines for communication, collaboration, creativity and problem solving. Employs digital tools including Microsoft Office’s spreadsheets and databases, Google apps, mobile apps, and a variety of other Web-based tools in problem-based environments.

EDT 321 Computer Literacy: Mobile Tech

Uses mobile technologies across disciplines for communication, collaboration, creativity and problem solving. Employs digital tools including Microsoft Office’s spreadsheets and databases, Google apps, mobile apps, and a variety of other Web-based tools in problem-based environments.

EDT 463 Games for Impact: Life Cycle

Presents an impact game publishing methodology covering the full life cycle and key considerations for impact game design, development and publishing as well as the unique challenges in making games for impact. Applies methodology to examine an existing impact game currently in development. Students collaboratively workshop an original impact game concept and publishing plan that harnesses the power of games to address a key 21st-century challenge.
EDT 501 Fndtns of Learning Design&Tech

Foundations and evolution of the field of learning design and technology; examines accomplishments and issues in the field and explores possible career paths.

EDT 502 Design and Development of Inst

Design, development, and formative evaluation of objectives-based instructional materials.

EDT 502 Design and Development of Inst

Centers on the design and development of competency-based instructional materials, based on a variety of instructional design models, for learning in a multitude of settings.

EDT 503 Design Effective Communication

Explores the theory, research and practice of computer-mediated communication including principles of graphic design for the purposes of creating effective presentations, job aids/infographics and video/audio for educational purposes. Includes a focus on accessibility and Section 508 compliance.

EDT 504 Modalities of Learning

Systematic design, development, and formative evaluation of computer-based instruction.

EDT 504 Modalities of Learning

Focuses on the development, design and creation of various forms of Web-based instruction including blended, hybrid and online learning. Examines the characteristics of interactive media, synchronous and asynchronous forms of distance/online learning, eLearning software and project management.
EDT 506 Evaluation of Learning System

Procedures for evaluating educational programs, training systems, and new-technology applications.

EDT 506 Evaluation of Learning System

Examines procedures for evaluating educational programs, training systems and new-technology applications. Focuses on basic evaluation concepts, steps in conducting a systematic evaluation project, the preparation of an evaluation report, as well as ethical issues.

EDT 523 Distance Education Theory/Prac

Explores development of distance learning principles by examining national and international systems and applications.

EDT 523 Distance Education Theory/Prac

Explores development of distance learning principles by examining national and international systems and applications.

EDT 523 Issues in Online & Distance Ed

Investigates current issues and trends specific to the implementation of web-based teaching and learning as well as practices for effective online instruction. Examines online learning principles, practices and their effectiveness by exploring the use of related systems and applications.

EDT 524 Issues in K-12 Online Learning

Examines current issues, policies, and trends pertaining to K-12 Web-based teaching and learning. Actively explores research related to online learning, with a focus on virtual schooling and emerging best practices for effective online instruction.
EDT 524 Issues in K-12 Online Learning

Examines current issues, policies, and trends pertaining to K-12 Web-based teaching and learning. Actively explores research related to online learning, with a focus on virtual schooling and emerging best practices for effective online instruction.

EDT 530 Technology Integration Methods

Examines a constructivist approach to technology in education. Investigates technology as a catalyst for rethinking instructional goals and practices.

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Examines a constructivist approach to technology in education. Investigates technology as a catalyst for rethinking instructional goals and practices.

EDT 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

EDT 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

EDT 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.
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Preparation of a supervised applied project that is a graduation requirement in some professional majors.

EDT 598 Special Topics
Instructional Design Online
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EDT 598 Special Topics
Methods of Online Education
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EDT 598 Special Topics
Impact of Emerging Tech on Sch
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EDT 598 Special Topics
Technology as Mindtools
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

EDT 598 Special Topics
Impact of Emerging Tech on Sch
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
EDT 598 Special Topics
Methods of Online Education
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EDT 598 Special Topics
Presrvce K-12&Collg Onln Tchng
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EDT 598 Special Topics
Emrg Trnds & Tch for Lrng Dsg
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

EDU 304 Coursework, Identity, Career

Connects critical concepts in coursework to field-based
opportunities. Identifies social concerns that define an
educational field as well as known supports and possible
barriers. Given the specified discipline of a field, defines
learning opportunities as well as opportunities for leadership,
advocacy and innovation.
EDU 402 Partnering for Ed Initiatives

Examines global formal and informal partnerships to design innovative and sustainable educational initiatives that address social concerns and meet the needs of diverse populations. Shares solutions through professional communication using technology to collaborate with diverse groups.

ELL 515 Structured Engl Immersion (SEI)

Addresses the role of language and culture in teaching, program types, and specific SEI strategies for teaching English Language Learners (ELLs).

GLE 501 Global Thinking in Education

An online course introducing students to the analyses of worldwide factors that affect a range of issues in education including access, quality and sustainability across countries and education systems.

GLE 502 Inquiry in Global Education

Students learn to locate; interpret and critically analyze global education research literature (including comparative, qualitative, and quantitative approaches); develop problem statements and conduct a literature review.

GLE 503 Eval Glob Edu Policies, Progs

Examines principles, methods and practices of evaluating education programs and policies in international settings. Focuses on types of evaluation, evaluation design, data collection and monitoring, and utilization of findings.
GLE 598 Special Topics
Philosophy of Ed Research
Topical courses not offered in regular course rotation (e.g.,
new courses not in the catalog, courses by visiting faculty,
courses on timely topics and highly specialized courses
responding to unique student demand).

HED 603 Foundation of Data Analytics
How decisions are made in higher education and how data
and analytics can support university leaders.

HED 604 Analytics Process & Technology
Process and technology used to facilitate data-informed
decision making in higher education.

HED 605 Data Management & Preparation
Data preparation and management for data-informed decision
making in higher education institutions.

HED 606 Advanced Analytic Methods
Advanced analytic methods, including data mining, in support
of data-informed decision making in higher education
institutions.

HED 607 Visualization and Presentation
Principles of effective presentation and visualization of data for
exploratory, predictive and persuasive purposes.

HED 608 Trends Advncd Analytic Methods
Emerging advanced analytic method in use within higher
education.
LSE 305 Conceptualizing Learning

Explores a variety of learning theories. Covers the role of the educator, the role of the student, and how tools and systems can help facilitate teaching and learning opportunities. Students design learning experiences for a specific need or opportunity using current research-based learning theories.

PPE 310 Health Literacy for Schools

Signature course for elementary educators and special education educators in order to prepare future teachers with the knowledge, skills, and dispositions to teach healthy and active content knowledge and to create healthy and active school environments.

PPE 310 Healthy Learning Communities

Prepares educators with the knowledge, skills and dispositions to support learners’ overall health. Focuses on educator’s roles in creating healthy and active learning communities and addresses a variety of educational settings and learner ages.

PPE 335 Move & Phys of Child in PE

Provides an introductory-level understanding of mechanical principles underlying human movement, the developmental patterns reflected in human movement birth through childhood and adolescence, basic principles of motor learning and the physiological basis of human movement. Covers how these principles directly affect the development of physical activity opportunities in in community-based sport and recreation settings with a specific eye toward the role an active lifestyle plays in the overall health and well-being of children and youth between the ages of 6 and 18.
RDG 291 Children’s Literature

Focuses on selecting and using children’s literature and related nonprint media to support the elementary school curriculum. Covers the elements, genres and applications of children's literature as well as the resources available for elementary classroom teachers. Constructs criteria for the selection of trade books for educational and personal use. Also explores the role of digital media in children’s literature.

RDG 291 Children’s Literature

Focuses on selecting and using children’s literature and related nonprint media to support the elementary school curriculum. Covers the elements, genres and applications of children's literature as well as the resources available for elementary classroom teachers. Constructs criteria for the selection of trade books for educational and personal use. Also explores the role of digital media in children’s literature.

SCN 300 Found. of Environ. Ed

Introduces environmental education, including the philosophy, historical development, resource identification, curriculum development, field trips and other activities designed to provide the structure and development of the field of environmental education. Explores the antecedents to the present-day field and connects the field of environmental education to curricular programs that are an outgrowth of perceived and actual need in the field of environmental education.
SCN 300 Found. of Environ. Ed

Introduces environmental education, including the philosophy, historical development, resource identification, curriculum development, field trips and other activities designed to provide the structure and development of the field of environmental education. Explores the antecedents to the present-day field and connects the field of environmental education to curricular programs that are an outgrowth of perceived and actual need in the field of environmental education.

SCN 401 SustainabilitySci,Tech&Society

Explores the challenges of sustaining human health and well-being on Earth due to human exploitation of natural resources. Prepares students to think and engage critically with the world around them. Seeks sustainable solutions through science, technology and society acting at global and local levels. Uncovers diverse approaches used by scientists, scholars and practitioners to study and assess human-environment interactions pertaining to sustainability challenges and solutions.

SCN 401 SustainabilitySci,Tech&Society

Explores the challenges of sustaining human health and well-being on Earth due to human exploitation of natural resources. Prepares students to think and engage critically with the world around them. Seeks sustainable solutions through science, technology and society acting at global and local levels. Uncovers diverse approaches used by scientists, scholars and practitioners to study and assess human-environment interactions pertaining to sustainability challenges and solutions.

SCN 494 Special Topics
SustainabilitySci,Tech&Society
Covers topics of immediate or special interest to a faculty member and students.
SPE 222 Orient to Ed Exceptional Child

Includes gifted, mildly handicapped, severely handicapped, and the bilingual/multicultural exceptional child.

SPE 222 Orient to Ed Exceptional Child

Legal aspects of special education; legislation, education and community services to meet the needs of students with special education needs. Examines the nature and characteristics of students with developmental disabilities, autism, communication disorders, emotional or behavioral disorders, learning disabilities, sensory impairments, orthopedic impairments, other health impairments, and children with gifts and talents.

SPE 222 Orient to Ed Exceptional Child

Legal aspects of special education; legislation, education and community services to meet the needs of students with special education needs. Examines the nature and characteristics of students with developmental disabilities, autism, communication disorders, emotional or behavioral disorders, learning disabilities, sensory impairments, orthopedic impairments, other health impairments, and children with gifts and talents.

SPE 411 Parent Involvement/Regulatory

Emphasizes parent and school relations through effective communication and state and federal regulations impacting services for the handicapped.

SPE 411 Family Involvement & Reg Issues

Emphasizes family and school relations through effective communication and state and federal regulations impacting services for students with disabilities.
SPE 512 Individuals/Mental Retardation

Etiology, diagnosis, and management of individuals with mental retardation. Current trends in prevention, programming, and teacher preparation. Not recommended for students who have completed SPE 312.

SPE 512 Indiv/Intellectual Disability


SPE 520 Rdg&Comm Strat for Indiv w/Aut

Understands and applies reading and communication strategies with individuals with autism and related disorders. Includes historical, diagnostic, and identification issues.

SPE 520 Verbal Behavior

Based on the theories of B. F. Skinner, this course increases student knowledge and understanding of the role of verbal behavior in learning and communication. Students gain experience recognizing the function of communication, applying standardized assessment measures to assess and develop targeted interventions to address communication challenges.

SPE 521 Found Autism Spectrum Disrdrds

 Increases the understanding of characteristics of individuals with autism.
SPE 525 Measurement and Exp Design

Examines data collection techniques, design methodologies, visual analysis and interpretation approaches. Students gain expertise and practical experience in the interpretation and application of experimental design to inform decision making. Focuses on evaluation of the effectiveness of interventions through use of behavior analytic technologies in clinical and applied settings. Students learn to interpret and describe behavior in behavior analytic terms and explain concepts and approaches in everyday language. Students research and evaluate skill assessment approaches through strategic review of the behavior analytic literature. Course addresses single-subject methodologies to inform design and delivery of effective instruction and clinical interventions.

SPE 526 Concepts and Principles of ABA

Provides an overview of and introduction to the basic concepts and principles of applied behavior analysis. Students gain understanding of behavior analytic process and terminology, defining and providing examples of concepts and principles and applying to a range of situations. Applied behavior analysis is the process of systematically applying interventions based upon the principles of learning theory to improve socially significant behaviors to a meaningful degree, and to demonstrate that the interventions employed are responsible for the improvement in behavior.

SPE 527 Behavior Analytic Assessment

Focuses on assessment procedures of applied behavior analysis. Students learn to determine the need for behavior-analytic services; identify, design and prioritize socially significant behavior change goals; conduct assessments of relevant skill strengths and deficits; conduct preference assessments; describe the common functions of problem behavior; conduct a descriptive assessment of problem behavior; conduct a functional analysis of problem behavior and interpret functional assessment data. Critically evaluates environmental variables in order to make informed recommendations for behavior change.
SPE 531 Meth App Beh Analy for Ex Pop

Behavior management approaches for classroom behavior of exceptional children.

SPE 531 Meth App Beh Analy for Ex Pop

Methods based on the principles and concepts of applied behavior analysis. Students learn to operationally define problem behavior, conduct functional behavior assessment and generate recommendations for the development of behavior analytic interventions. Students gain knowledge and understanding of specific scientifically valid behavior change procedures. Discusses and applies their corresponding literature base.

SPE 536 Characteristics/Chldrn/Behavrl

Variables contributing to behavior patterns of behaviorally disordered children.

SPE 540 Family Centered Practices

Issues associated with families and family systems. Effects of disabilities on families. Strategies for family support and empowerment.

SPE 540 Family-Centered Practices

Provides definitions, models, activities and exploration in the various roles in collaboration, consultation and teamwork in the field of special education. In-depth exploration of connections with families, professionals and support personnel across disciplines and agencies.

SPE 541 Consultation Frameworks/Issues

Models, activities, and roles of educational consultants working with families, professionals, and support personnel across disciplines and agencies.
SPE 548 Cross-Categorical Foundations

Foundations course compares cognitive, motor, and affective developmental and educational issues across LD, ED, MR, and PI/OHI.

SPE 560 Behavior Change Procedures

Examines scientifically validated behavior change procedures. Students gain experience critically analyzing and selecting interventions informed by measurement, data display and interpretation. Students gain experience in application of knowledge by conducting a behavior change project, analyzing, interpreting and presenting results.

SPE 561 Characteristics/Diagnosis/Lrn

Theories related to learning disabilities, including identification and characteristics.

SPE 562 Personnel Sprvsn OBM in Ed

Focuses on the use of data informed procedures for training, management, supervision and support of behavior health practitioners in educational settings. Students gain experience and develop expertise with organizational behavior management (OBM) techniques.

SPE 563 Phil Foundation ABA in Ed

Reviews the history and foundations of the field of applied behavior analysis in educational settings. Interprets the impact and utility of radical behaviorism and experimental analysis of behavior in classrooms, clinics, homes and community settings.
SPE 564 Cntrvrsl Therapies Sci in Ed

Investigates the role and impact of fads, pseudoscience, false beliefs, dubious assumptions and spurious reasoning on treatment decisions of professionals, politicians, educators, parents and clients in educational settings. Interprets philosophical positions and traditions that influence and inform consumers in selection of treatments. Examines and designs responsible evaluation and strategies for effective communication.

SPE 565 Behavior Change Systems

Reviews basic principles of applied behavior analysis. Students learn to identify, implement, manage and supervise interventions that use fundamental elements of behavior change, specific behavior change procedures and behavior change systems through applied projects, course discussions, readings and presentations.

SPE 565 Behavior Change Systems

Focuses on applied behavior analysis-based behavior change systems and procedures. Students learn to identify, implement, manage and supervise interventions based on fundamental elements of behavior change. Addresses behavior change considerations, including ethical use of behavior change systems and ongoing data collection for fidelity and progress monitoring.

SPE 566 Appl Beh Analysis Inclus Set

Definitions, characteristics, assumptions, and basic principles of behavioral analysis as applied to social skills in inclusion settings.

SPE 566 Appl Beh Analysis Inclus Set

Examines definitions, characteristics, assumptions and basic principles of applied behavior analysis. Describes and applies fundamental elements of behavior change, including reinforcement schedules, modeling, shaping, chaining and other behavior change procedures. Activities center on the design and delivery of social skill interventions with individuals with special needs in inclusive settings.
SPE 568 Behavioral Assessment

Behavioral observation and data collection, interobserver agreement, assessment of social validity and treatment integrity, functional behavioral assessment, and stimulus preference assessment. With respect to functional assessment and preference assessments, covers the three general approaches currently in use: indirect or anecdotal methods, descriptive assessment, and experimental functional analysis.

SPE 568 Behavior Assessment

Focuses on critical aspects of applied behavior analysis, experimental design and the identification and implementation of effective assessment methodologies. Addresses client-centered responsibilities of the behavior analyst including problem identification, measurement, assessment, data collection and analysis. Students gain experience conducting functional behavior assessment and stimulus preference assessment to inform intervention design. Emphasizes measuring and ensuring treatment integrity.

SPE 569 Res Meth Applied Beh Analysis

Prepares students to learn behavior analysis applications through research in preparation for seeking BCBA certification.

SPE 569 Res Meth Applied Behv Analysis

Students gain expertise and practical experience in the interpretation and application of experimental design to inform decision making. Focuses on evaluation of the effectiveness of interventions through use of behavior analytic technologies in clinical and applied settings. Students learn to interpret and describe behavior in behavior analytic terms and explain concepts and approaches in everyday language. Students research and evaluate skill assessment approaches through strategic review of the behavior analytic literature. Course addresses single-subject methodologies to inform design and delivery of effective instruction and clinical interventions.
SPE 572 Testing & Measurement Gifted Ed

Covers current and historical aspects of testing and measurement in the field of gifted education. Topics include: the history and purposes of IQ testing, definitions of various types of tests, purposes of testing for gifted education services, ability tests and achievement measures, how tests are used in Arizona in programs for gifted learners.

SPE 573 Diff Instruction Gifted Child

Explores the design of differentiated curriculum and instruction for gifted learners in elementary and secondary education.

SPE 580 Practicum

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

SPE 585 Creativity: Research & Develop

Explores nature of creativity in terms of philosophical underpinnings, empirical evidence, human development, self-actualization, and the ecology surrounding the creative event.

SPE 585 Creativity: R&D in Gifted Ed

Explores nature of creativity in terms of philosophical underpinnings, empirical evidence, human development, self-actualization, and the ecology surrounding the creative event.

SPE 587 Controversies/Educating/Gifted

In-depth analysis of major controversies in educating the gifted, including nature/nurture, the role of mental tests, and sex differences.
SPE 587 Special Populations/Gifted Ed

In-depth analysis of major controversies in educating the gifted, including nature/nurture, the role of mental tests, and sex differences.

SPE 589 Teaching the Gifted Learner

Methods in teaching elementary and secondary school gifted children, including individualized and computer-assisted instruction, team teaching.

SPE 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

SPE 597 Capstone

Applies theoretical and practical information presented through coursework in a real-world setting.

SPE 598 Special Topics
Behavioral Assessment
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SPE 598 Special Topics
Concpt Ethc App Behavior Anlys
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPE 598 Special Topics
AdvdCncptsPrinPrcAppldBehAnlys
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPE 598 Special Topics
Behavior Analytic Assessment
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPE 598 Special Topics
Concepts and Principles of ABA
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPE 598 Special Topics
Elmnty Ed Mthds Excepntl Lrn
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPE 598 Special Topics
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Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SPE 598 Special Topics

Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SPF 301 Culture and Schooling

For the professional teacher preparation program. Overview of the cultural, social, and political milieus in which formal schooling takes place in the United States.

SPF 301 Culture and Schooling

For the professional teacher preparation program. Overview of the cultural, social, and political milieus in which formal schooling takes place in the United States.

SPF 494 Special Topics
Finland, Sweden and the US
Covers topics of immediate or special interest to a faculty member and students.

SPF 494 Special Topics
Comparative Sociology
Covers topics of immediate or special interest to a faculty member and students.

SPF 494 Special Topics
ComparativeEd:Finland & the US
Covers topics of immediate or special interest to a faculty member and students.

TEL 111 Exploration of Education

Education as an instrument in the development of the individual and society and its significance as an American Institution.
TEL 111 Exploration of Education

Education as an instrument in the development of the individual and society and its significance as an American Institution.

TEL 200 Intro to Cmnty Embedded Lrnig

Students spend a minimum of 3 hours per organization touring and interviewing key personnel and service recipients. Total hours in volunteer capacity is 15 hours to pass the course. Volunteer capacity can take place at sites such as schools, youth programs, health services, social services, environmental programs, government agencies, directly serving a population in need or supporting activities that contribute to the greater good of children and youth within their communities. Course readings, discussions and reflection assignments facilitate critical thinking and a deeper understanding of diversity and how to contribute to positive social change in communities. Also provides students with “real-world” experiences in communities to further develop their own academic skills and career exploration.

TEL 200 Social Embeddedness

Serves as a pathway toward self discovery and professional identity. Course readings, reflections and self assessments help students develop personal and professional goals and goal-setting strategies. Course assignments provide students with a greater level of understanding regarding the reciprocal influences among community and culture and the student’s life experiences. Students have an opportunity to clearly define themselves and share topics they are passionate about, as well as locate how they might fit into and contribute to their community.
TEL 200 Social Embeddedness

Serves as a pathway toward self discovery and professional identity. Course readings, reflections and self assessments help students develop personal and professional goals and goal-setting strategies. Course assignments provide students with a greater level of understanding regarding the reciprocal influences among community and culture and the student's life experiences. Students have an opportunity to clearly define themselves and share topics they are passionate about, as well as locate how they might fit into and contribute to their community.

TEL 212 Understand/Culturally Diverse

Surveys cultural and linguistic diversity in American education, including education equity, pluralism, learning styles, and roles of schools in a multiethnic society.

TEL 215 Intro to Child & Adolescent Dev

Emphasizes the cognitive, social-emotional, and physical domains of child and adolescent development. From a knowledge base of theory, research, and current issues, students apply learning to developmentally appropriate principles and practices that guide relationships and learning experiences for all children. Uses available technologies; emphasizes the complex ecosystem of culture, ethnicity, family, and school.

TEL 294 Special Topics
Social Embeddedness
Covers topics of immediate or special interest to a faculty member and students.
TEL 300 Community Embedded Experience

Students select two organizations that match their own interests and talents and spend a minimum of 10 hours per organization volunteering in a service capacity to understand the organization from an insider’s viewpoint. Students volunteer a total of 20 hours to pass the course. Volunteer capacity can take place at sites such as schools, youth programs, health services, social services, environmental programs, government agencies, directly serving a population in need or supporting activities that contribute to the greater good of children and youth within their communities. Course readings, discussions and reflection assignments facilitate critical thinking and a deeper understanding of diversity and how to contribute to positive social change within communities. Provides students with “real-world” experiences in communities to further develop their own academic skills and career exploration.

TEL 300 Community, Family & Education

Addresses education in a community and family context. Analyzes education and identifies education-focused community challenges in a broad variety of settings and across multiple times and places.

TEL 300 Community, Family & Education

Addresses education in a community and family context. Analyzes education and identifies education-focused community challenges in a broad variety of settings and across multiple times and places.

TEL 313 Educ Tech in K-12 Curriculum

Focuses on using technology in an education setting and addresses the integration of technology in curricular areas for all students. Students receive a broad-based introduction to using and integrating technology into many different educational settings.
TEL 313 Technology Educational Setting

Focuses on using technology in an education setting and addresses the integration of technology in curricular areas for all students. Students receive a broad-based introduction to using and integrating technology into many different educational settings.

TEL 313 Technology Educational Setting

Focuses on using technology in an education setting and addresses the integration of technology in curricular areas for all students. Students receive a broad-based introduction to using and integrating technology into many different educational settings.

TEL 315 Child & Adolescent Development

Physical, cognitive, social, and emotional development during childhood and adolescence; developmentally appropriate principles and practices to facilitate development for all students.

TEL 315 Child & Adolescent Development

Physical, cognitive, social, and emotional development during childhood and adolescence; developmentally appropriate principles and practices to facilitate development for all students.

TEL 400 Innovation in Ed Endeavors

Pursues innovative solutions to social problems with the courage and ability to impact change in individuals, communities and organizations. Reviews community problems, challenges or areas of improvement; learns underlying principles of social enterprise; and develops innovative methods that empower individuals and support educational initiatives.
TEL 400 Innovation in Ed Endeavors

Pursues innovative solutions to social problems with the courage and ability to impact change in individuals, communities and organizations. Reviews community problems, challenges or areas of improvement; learns underlying principles of social enterprise; and develops innovative methods that empower individuals and support educational initiatives.

TEL 404 Issues in Ed&Policy Reform US

Specialized topics related to current issues in education with a focus on education reform efforts from the late 20th century into the 21st century. Explores current reform efforts in education as part of the larger public policy agenda in the United States, analyzing how external influences shape present education systems.

TEL 404 Issues in Ed&Policy Reform US

Specialized topics related to current issues in education with a focus on education reform efforts from the late 20th century into the 21st century. Explores current reform efforts in education as part of the larger public policy agenda in the United States, analyzing how external influences shape present education systems.

TEL 405 History of Ed&Policy Reform US

Specialized topics in education history with a focus on education reform efforts from pre-Revolutionary War time to the end of the 20th century. Explores the past reform efforts in education as part of what was happening historically in the United States, analyzing how those efforts have shaped the present education systems.
TEL 410 Leadership and Advocacy in Ed

Educators who take an active stance through advocacy and leadership are well-equipped to create societal change. Students learn about styles of leadership that are fitting for this need, study advocacy techniques, then position themselves as advocates and leaders as they create a plan, with goals, to address an identified community problem, challenge or area of improvement.

TEL 430 Learning Outside of School

Studies and methods from a variety of nonschool environments for learning and development. Teaches knowledge and skills such as methods of identifying and evaluating free-choice learning that occurs through museum going, hobbies, family learning, media, community programs, sports, public health campaigns, and more. Covers career opportunities for educators in key creative environments besides classrooms.
TEL 431 Learning in Workplaces

School isn't the only place where people learn! Once you get a job, most of what you learn will occur as you do your job, and that kind of learning is crucial to the development of competence and expertise. Surprisingly, seventy to eighty percent of this important learning takes place outside of formal training. Studying learning in workplaces illuminates how learning happens universally, and helps teachers and trainers design effective educational programs.

TEL 494 Special Topics

Covers topics of immediate or special interest to a faculty member and students.

TEL 494 Special Topics

Hstry of Ed & Plcy Refrm in US
Covers topics of immediate or special interest to a faculty member and students.

TEL 494 Special Topics

Covers topics of immediate or special interest to a faculty member and students.

TEL 501 Intro to Research/Eval in Educ

Overview of educational inquiry from controlled, quantitative to qualitative, naturalistic. Emphasizes locating and critically interpreting published research.
TEL 504 Learning and Instruction

Introduces psychology of learning and instruction. Includes the foundations of learning theories and their application to educational practice.

TEL 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

TEL 701 Advanced Quantitative Methods

Data collection, analysis, interpretation in studies using quantitative methods of inquiry situated in action research, evaluation and data-informed decision making.

TEL 702 Dynamic Contexts of Education

Explores current ethical issues influencing leadership decisions with a focus on real problems in the educational setting.

TEL 703 Innovation-Teaching&Learning

Development and psychological processes of human cognition, motivation, and performance applied to cognitively diverse, English language learners, adult professional development.

TEL 704 Leading Change in Educ Orgs

Develops understanding of dynamic and systemic nature of organizations, with emphasis on leadership for building organizational capacity and learning
TEL 704 Leadership for Org Change

Develops understanding of dynamic and systemic nature of organizations, with emphasis on leadership for building organizational capacity and learning.

TEL 705 Systems Change and Leadership

Focuses on theoretical foundations of systems literature with a focus on education. Examines literature and scholarship that builds knowledge of educational theory on systems, and applies important related concepts to real-world problems of practice as they appear in students’ current work context.

TEL 706 Intro to Doc Studies

Prepares doctoral students for success, focusing on balance and identity, communities of practice, leadership and innovation, action research, and organization systems.

TEL 707 Reading the Research

Interprets and analyzes qualitative and quantitative research literature, as well as how to integrate information in professional scientific writing.

TEL 711 Strategies for Inquiry

Develops knowledge and skills for research and program evaluation that foster innovation in education that leads to improved student learning.

TEL 712 Mixed Methods of Inquiry

Methods for combining qualitative and quantitative inquiry in action research, evaluation, and data-based decision making.

TEL 713 Advanced Qualitative Methods

Data collection, analysis, interpretation in studies using qualitative methods of inquiry, situated in action research, evaluation and data-informed decision making.
TEL 780 Practicum
Orgnznl Anlytcs in Higher Ed
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

TEL 780 Practicum
Usng Ql Anlys Sftwr in Ql Cdg
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

TEL 780 Practicum
Rsch in Postsec Context
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

TEL 780 Practicum
Ql Anlys Sftwr Grnd Thry Cdg
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

TEL 780 Practicum
Case Study Research
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

TEL 780 Practicum
Survey Development
Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

TEL 791 Seminar
Systems Change and Leadership
A small class emphasizing discussion, presentations by students, and written research papers.
TEL 791 Seminar
Exam Issues Impctng Eng Learnr
A small class emphasizing discussion, presentations by students, and written research papers.

TEL 791 Seminar
Edctn SystemsChange&Leadership
A small class emphasizing discussion, presentations by students, and written research papers.

TEL 791 Seminar
Reading the Research
A small class emphasizing discussion, presentations by students, and written research papers.

TEL 791 Seminar
Innvtns in Dissmntng Rsrch
A small class emphasizing discussion, presentations by students, and written research papers.

TEL 791 Seminar
Clb aprchs dta-infrmd dcs-mkng
A small class emphasizing discussion, presentations by students, and written research papers.

TEL 792 Research
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

TEL 792 Research
Directed Field Based Study
Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.
TEL 799 Dissertation

Supervised research focused on preparation of dissertation, including literature review, research, data collection and analysis, and writing.

USL 210 SrvcLrning:Intro Commy Issues

Correlates academic coursework with community service and provides reflection opportunities that examine community needs, the importance of civic engagement and an introduction to the effects of social injustice affecting ethnic minorities and other marginalized populations in contemporary American society. Students dedicate 70 hours at a preapproved site (including Title I K-12 schools, youth programs, health services, social services, environmental programs, government agencies) directly serving a population in need or supporting activities that contribute to the greater good of our community. Weekly seminar, course readings, discussions, and reflection assignments facilitate critical thinking and a deeper understanding of cultural diversity, citizenship, and how to contribute to positive social change in our community. Provides “real-world” experiences that exercise academic skills and knowledge applicable to each student’s program of study and career goals.
USL 210 SrvcLrning:Intro Commty Issues

Correlates academic coursework with community service and provides reflection opportunities that examine community needs, the importance of civic engagement and an introduction to the effects of social injustice affecting ethnic minorities and other marginalized populations in contemporary American society. Students dedicate 70 hours at a preapproved site (including Title I K-12 schools, youth programs, health services, social services, environmental programs, government agencies) directly serving a population in need or supporting activities that contribute to the greater good of our community. Weekly seminar, course readings, discussions, and reflection assignments facilitate critical thinking and a deeper understanding of cultural diversity, citizenship, and how to contribute to positive social change in our community. Provides “real-world” experiences that exercise academic skills and knowledge applicable to each student's program of study and career goals.

USL 410 SrvcLrning:DiverseCommtyIssues

Correlates academic coursework with community service and provides reflection opportunities that examine community needs, the importance of civic engagement and an introduction to the effects of social injustice affecting ethnic minorities and other marginalized populations in contemporary American society. Students dedicate 100 hours at a preapproved site (including Title I K-12 schools, youth programs, health services, social services, environmental programs, government agencies) directly serving a population in need or supporting activities that contribute to the greater good of our community. Weekly seminar, course readings, discussions and reflection assignments facilitate critical thinking and a deeper understanding of cultural diversity, citizenship and how to contribute to positive social change in our community. Provides “real-world” experiences that exercise academic skills and knowledge applicable to each student's program of study and career goals.
USL 410 SrvcLrning:DiverseCommtlyIssues

Correlates academic coursework with community service and provides reflection opportunities that examine community needs, the importance of civic engagement and an introduction to the effects of social injustice affecting ethnic minorities and other marginalized populations in contemporary American society. Students dedicate 100 hours at a preapproved site (including Title I K-12 schools, youth programs, health services, social services, environmental programs, government agencies) directly serving a population in need or supporting activities that contribute to the greater good of our community. Weekly seminar, course readings, discussions and reflection assignments facilitate critical thinking and a deeper understanding of cultural diversity, citizenship and how to contribute to positive social change in our community. Provides “real-world” experiences that exercise academic skills and knowledge applicable to each student’s program of study and career goals.

ACO 100 All About Data

Data modeling and design, spreadsheets, relational databases and querying, visualization and XML.

ASB 353 Death&Dying Cross-Culturl Prsp

Scientific and humanistic approaches to the study of death and dying from the perspective of anthropology and allied disciplines. Uses a global, comparative approach across space and time from the earliest human burials to contemporary funeral events.

ASB 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

ASB 484 Internship
Asylum Athens Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.
ASB 484 Internship
Asylum Italy
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

BIO 130 Intro to Environmental Science

Introduces the interconnected nature of Earth's hydrosphere, lithosphere (soils and rocks), atmosphere, and biosphere.

CHM 101 Introductory Chemistry

Elements of general chemistry. Adapted to the needs of students in nursing and kinesiology and those preparing for general chemistry. Recommended for General Studies credit. Cannot be used for major credit in chemical or biochemical sciences. Fee.

CHM 101 Introductory Chemistry

Elements of general chemistry. Adapted to the needs of students in nursing and kinesiology and those preparing for general chemistry. Recommended for General Studies credit. Cannot be used for major credit in chemical or biochemical sciences.

COM 225 Public Speaking

Verbal and nonverbal communication in platform speaking. Discussion and practice in vocal and physical delivery and in purposeful organization and development of public communication.

COM 259 Comm Bus & the Professions

Interpersonal, group, and public communication in business and professional organizations.

COM 308 Adv Research Methods in Comm

Advanced communication research methods, including quantitative, qualitative, and critical approaches.
COM 316 Gender and Communication

Introduces gender-related communication. Examines verbal, nonverbal, and paralinguistic differences and similarities within social, psychological, and historic perspectives.

COM 400 Communication in Professions

Specialized study of communication processes in professional and organizational settings.

COM 430 Leadership Group Communication

Theory and process of leadership in group communication, emphasizing philosophical foundations, contemporary research, and applications to group situations.

COM 453 Communication Training/Develop

Examines the procedures and types of communication training and development in business, industry, and government.

ENG 101 First-Year Composition

Discovers, organizes, and develops ideas in relation to the writer’s purpose, subject, and audience. Emphasizes modes of written discourse and effective use of rhetorical principles. Foreign students, see ENG 107.

ENG 102 First-Year Composition

Critical reading and writing; emphasizes strategies of academic discourse. Research paper required.

ENG 210 Intro to Creative Writing

Beginning creative writing in genres other than poetry and fiction.
ENG 215 Strategies of Academic Writing

Advanced course in techniques of analyzing and writing academic expository prose. Writing is research based.

ENG 217 Writing Reflective Essays

Critical examination of the influences discourse has on formation of identity; narrative analyses of self and culture.

ENG 221 Survey of English Literature

Medieval, Renaissance, and 18th-century literature. Emphasizes major writers and their works in their literary and historical contexts.

ENG 222 Survey of English Literature

Romantic, Victorian, and 20th-century literature. Emphasizes major writers and their works in their literary and historical contexts.

ENG 301 Writing for the Professions

Advanced practice in writing and editing expository prose. Primarily for preprofessional majors.

ENG 310 Intermediate Creative Writing

Intermediate creative writing in genres other than poetry, fiction, or science fiction.

ENG 311 Persuasive Writing

Advanced writing course that focuses on persuasive writing for diverse audiences.

ENG 317 Cross-Cultural Writing

Cultural differences and their impact on writing and/or their role in miscommunication and misinterpretation.
ENG 321 Shakespeare

Readings in Shakespeare's major comedies, tragedies, histories, romances and/or poems.

ENG 323 Rhetoric and Grammar

Practical course taught in the computer lab. Emphasizes rhetorical strategies and grammar for writers.

ENG 324 Horror: Films & Short Stories

A survey of major writers since 1800, and of classic filmmakers. The historical development of horror in relation to Gothic and grotesque short stories and films.

ENG 328 The Novel to Jane Austen

From origins of prose fiction through the 18th century.

ENG 333 American Ethnic Literature

Examines America's multiethnic identity through works of literature that depict American ethnic, gender, and class sensibilities.

ENG 353 Af/Am Lit: Begin-Harlem Renais

Focuses on the history of African American literature through the Harlem Renaissance, as exemplified in selected slave narratives, poems, and fiction.

ENG 359 Indigenous American Literature

Selected oral traditions and contemporary works by Indigenous American authors.

ENG 363 Transborder Chicano Literature

Development of Chicana and Chicano literature; study of genres and themes; attention to literary antecedents.
ENG 364 Women and Literature
Approaches to issues of gender and representation in literature by and about women.

ENG 379 Travel Writing
Studies the genesis of travel writing, what theories inform travel writing, and the various genres of travel writing today.

ENG 394 Special Topics
Cross-Cultural Narratives
Covers topics of immediate or special interest to a faculty member and students.

ENG 394 Special Topics
Vietnam Travel/Memoir Narratives
Covers topics of immediate or special interest to a faculty member and students.

ENG 400 History of Literary Criticism
Major critics and critical traditions in the Western world.

ENG 420 Multicultural Autobiographies
Examines the human experience via autobiographies and personal narratives. Multicultural, literary, and psychological perspectives on individual lives.

ENG 421 Studies in Shakespeare
Close examination in selected dramatic and/or nondramatic works.

ENG 432 The American Renaissance
Novels, poetry, short fiction, and criticism of the major literary figures of the early to mid-nineteenth century.
ENG 440 Studies in Amer Lit & Culture
ProtestPoetry:HarlemRen/K Lam
Various genres in their literary, political, theoretical, and historical contexts.

ENG 441 Intro to Participatory Media

The spread of participatory media, ranging from zines, e-zines, podcasting and video production tools to video games and virtual worlds has led to significant changes in how we communicate, learn, collaborate, network and create. Introduces theory and research on participatory media and the changing nature of “literacy” in a media age to “literacies.” Addresses key concepts and issues, such as language, identity, access and community. Explores these topics through engaging in readings, videos and Web sites; by reflecting on their own experiences; and by responding to questions/prompts through online discussions, thought papers, social media or virtual presentations.

ENG 443 Gender, Culture & Literacy

Explores the interactions and influences of gender and culture on literacy development and practice. Literacy is defined broadly as including the new literacies (e.g., blogs, wikis, zines or self publications) and multiliteracies (e.g., communication through oral, lyrical, visual, digital or written texts) within a broad view of what counts as text. Addresses varying feminist theories and perspectives on masculinities and gender in relation to literacy in home, school, community and work place settings. Participants explore their own written, digital and oral language practices through readings, videos, Web sites, Blackboard discussions, self-reflections, thought papers and action research essays.

ENG 457 Studies in American Poetry
21st Century Chicana Poetry
May be repeated for credit when topics vary.
ENG 457 Studies in American Poetry
May be repeated for credit when topics vary.

ENG 457 Studies in American Poetry
Indigenous Poetry
May be repeated for credit when topics vary.

ENG 460 Ethnic Women Writers
Concentrates on selected women writers of the U.S. who are
Native American, African American, Hispanic, and Asian American.

ENG 471 Literature for Young Adults
Prose and poetry that meet the interests and capabilities of junior
high and high school students. Stresses recent literature. A
passing grade of at least “C” (2.00) required before students are
permitted to student teach in English.

ENG 477 World Literature
Readings in world literature, mostly outside the United States and
England.

ENG 494 Special Topics
Horror: Movies, Short Novels
Covers topics of immediate or special interest to a faculty
member and students.

ENG 494 Special Topics
Horror: Zombies/Monsters/Vamps
Covers topics of immediate or special interest to a faculty
member and students.

ENG 494 Special Topics
Horror: Movies & Short Stories
Covers topics of immediate or special interest to a faculty
member and students.
ENG 494 Special Topics
Gender/Genre in Contemp Media
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Westerns: Movies, Short Novels
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Environmental Justice Poetics
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Westerns: Films & Short Stories
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Magical Realism: Film/Stories
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Gender/Culture/Literacy
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
WeirdFiction: Film/ShortStories
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Intro to New Media
Covers topics of immediate or special interest to a faculty member and students.
ENG 494 Special Topics
AmerWomenWriters/20th21st Cent
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Literary Dylan:Poetry&Poetics
Covers topics of immediate or special interest to a faculty member and students.

ENG 494 Special Topics
Fantasy: Films & Short Stories
Covers topics of immediate or special interest to a faculty member and students.

ENG 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

ENG 598 Special Topics
Intro to New Media
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

ENG 598 Special Topics
Intro to Participatory Media
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
ENG 598 Special Topics
History of Lit Crit
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

ENG 598 Special Topics
Reading England’s Lit 2
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

ENG 598 Special Topics
Reading England’s Lit 1
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

GLG 101 Intro to Geology I (Physical)
Basic principles of geology, geochemistry, and geophysics.
Rocks, minerals, weathering, earthquakes, mountain building,
volcanoes, water, and glaciers. Students must complete both
GLG 101 and GLG 103 to receive an SQ (general studies).

GLG 103 Introduction to Geology I-Lab
3 hours lab, some field trips. Fee. Both GLG 101 and 103
must be taken to secure SQ General Studies credit.

GLG 103 Introduction to Geology I-Lab
3 hours lab, some field trips. Both GLG 101 and 103 must be
taken to secure SQ General Studies credit.

HST 109 United States to 1865
Growth of the Republic from colonial times through the Civil
War period.
HST 110 United States Since 1865

Growth of the Republic from the Civil War to the present.

IAP 202 Persp Interdisc Arts & Perfrmn

Social, cultural, and historical examination of interdisciplinary art and performance and a survey of current interdisciplinary work and approaches.

IAP 305 20th-21st Cent Art, Perf&Media

Surveys artists, movements, and trends in the arts with an emphasis on interdisciplinary performance, media, and technology.

IAP 364 Documentaries

Media arts projects exploring new and experimental forms of visualization based upon an interdisciplinary survey of historical and contemporary examples.

IAP 394 Special Topics
3D Modeling & Media Literacy
Covers topics of immediate or special interest to a faculty member and students.

IAP 421 Comp:Process, Techniq/Style II

Advanced study of specific compositional theories and procedures; in-depth analysis of individual work.

IAP 494 Special Topics
Bodies in Motion
Covers topics of immediate or special interest to a faculty member and students.

IAS 300 Adult Career Development

Analysis of sociological and economic factors of 21st-century work environments, integrated with a psychological understanding of adult development.
IAS 484 Internship
Human Trafficking
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

JHR 501 PS Social Justice & Human Rights

Classical and contemporary theories of social justice and human rights in the context of current local, national, and international issues. Special reference made to the roles of both governmental and nongovernmental organizations in addressing social justice and human rights issues.

JHR 510 Problem-Based Sem Social JHR

Interdisciplinary seminar examines current problems in social justice and human rights from several different theoretical and analytical viewpoints. May be repeated once for credit.

JHR 584 Internship
Asylum Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

JHR 584 Internship
Asylum Athens Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

JHR 584 Internship
Human Trafficking
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

JHR 584 Internship
Asylum Italy
Structured practical experience following a contract or plan, supervised by faculty and practitioners.
MAT 119 Finite Mathematics

Topics from linear algebra, linear programming, combinatorics, probability, and mathematics of finance.

MAT 142 College Mathematics

Applies basic college-level mathematics to real-life problems. Appropriate for students whose major does not require MAT 117 or 170.

MAT 170 Precalculus

Intensive preparation for calculus (MAT 260, 270, and 290). Topics include functions (including trigonometric), matrices, polar coordinates, vectors, complex numbers, and mathematical induction.

MUS 354 Popular Music
Michael Jackson
Emphasizes historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music.

NEW 300 International Cities
Santiago
Expands the global awareness of students through intensive study of a major international city. Students study such areas as the history, political system, economy, geography, architecture, science, technology, arts and/or culture of the city before visiting it physically during a break. While abroad, students build on what they have learned in class by exploring the city and experiencing it firsthand.
NEW 300 International Cities
International Cities Barcelona
Expands the global awareness of students through intensive study of a major international city. Students study such areas as the history, political system, economy, geography, architecture, science, technology, arts and/or culture of the city before visiting it physically during a break. While abroad, students build on what they have learned in class by exploring the city and experiencing it firsthand.

PGS 101 Introduction to Psychology

Major areas of theory and research in psychology. Requires participation in department-sponsored research or an educationally equivalent alternative activity.

PGS 304 Effective Thinking

Understanding and improving intellectual and behavioral skills; information analysis, inference, logic, problem solving, and decision making.

PGS 306 Environmental Psychology

Concepts and research strategies in the study of behavior in interaction with physical environment.

PGS 315 Personality Theory/Research

Definition and description of personality in terms of theoretical and methodological approaches.

PGS 341 Developmental Psychology

Analyzes behavior development in terms of psychological principles. Current research in human development.

PGS 350 Social Psychology

Human social behavior, including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion.
PGS 453 Organizational Behavior

Surveys psychological theory and research as applied to the behavior of individuals in organizational settings.

PGS 462 Health Psychology

Contributions of psychology to health promotion and illness prevention, adaptation to acute and chronic illness, and to the healthcare system.

PGS 466 Abnormal Psychology

Historical and current definitions, theory, and research concerning abnormal behavior. Major categories of psychopathology, including related treatment approaches.

PHI 306 Applied Ethics

Philosophical discussion of contemporary moral and political issues, such as abortion, euthanasia, animal rights, affirmative action, and sexual rights.

PHY 101 Introduction to Physics

Emphasizes applications of physics to life in the modern world. Presumes understanding of elementary algebra.

POS 160 Global Politics

Nature of contemporary world politics through the study of both general theoretical topics and specific geographical areas. Credit is allowed for only POS 160 or 362.

POS 210 Political Ideologies

Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures.
POS 394 Special Topics
Borders and Identities
Covers topics of immediate or special interest to a faculty member and students.

POS 484 Internship
Asylum Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
Asylum Athens Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 484 Internship
Asylum Italy
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

POS 486 Internatl Political Economy

Contending approaches to historical and contemporary issues of international political economy, including global welfare, equality, ecology, and peace.

PSY 101 Introduction to Psychology

Major areas of theory and research in psychology. Requires participation in department-sponsored research or an educationally equivalent alternative activity.

PSY 230 Introduction to Statistics

Basic concepts in descriptive and inferential statistics, emphasizing applications to psychology.

PSY 290 Research Methods

Planning, execution, analysis, and reporting of experiments. Literature, procedures, and instruments in representative areas of psychological research.
PSY 304 Effective Thinking

Understanding and improving intellectual and behavioral skills; information analysis, inference, logic, problem solving, and decision making.

PSY 315 Personality Theory/Research

Definition and description of personality in terms of theoretical and methodological approaches.

PSY 320 Learning and Motivation

Principles of conditioning and motivation; approaches to learning, including acquisition of verbal materials, concepts, and motor skills; memory and transfer.

PSY 323 Sensation and Perception

Underlying processes of vision, audition, and the other senses. Applies current research and theory in a lab environment.

PSY 323 Sensation and Perception

Underlying processes of vision, audition, and the other senses. Integrates theory, research, and application.

PSY 324 Memory and Cognition

Processes underlying information storage and retrieval, including different kinds of memory, forgetting, depth of processing, and control processes.

PSY 330 Statistical Methods

Advanced application of statistics to psychology. Highly recommended for students interested in attending graduate school.
PSY 341 Developmental Psychology

Analyzes behavior development in terms of psychological principles. Current research in human development.

PSY 350 Social Psychology

Human social behavior, including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion.

PSY 360 Cognitive Science

Examines cognition from the varied perspectives of philosophy, linguistics, psychology, computer science (artificial intelligence), and neuroscience.

PSY 366 Abnormal Psychology

Historical and current definitions, theory, and research concerning abnormal behavior. Major categories of psychopathology, including related treatment approaches.

PSY 368 Forensic Psychology

Clinical practice of forensic psychology: the assessment and treatment of people who interact with the legal system. Focuses on the ways in which psychologists do clinical work (assessment and treatment) to help courts make informed decisions about cases.

PSY 385 Psychology of Gender

Examines, from a psychological perspective, the similarities and differences in beliefs, attitudes, and behaviors of women and men.

PSY 394 Special Topics
Positive Psychology
Covers topics of immediate or special interest to a faculty member and students.
PSY 394 Special Topics
Undergrad Teaching Assistant
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Fundamentals of Brain Research
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Diversity in Psychology
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Psych of Love and Intimacy
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Intro to Clinical Psychology
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Terrorism: Psych, Law & Policy
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
PositivePsych:Sci of Happiness
Covers topics of immediate or special interest to a faculty member and students.
PSY 394 Special Topics
Childhood Trauma & Resilience
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Psychology Teaching Assistant
Covers topics of immediate or special interest to a faculty member and students.

PSY 394 Special Topics
Psych of Academic Success
Covers topics of immediate or special interest to a faculty member and students.

PSY 453 Organizational Behavior
Surveys psychological theory and research as applied to the behavior of individuals in organizational settings.

PSY 462 Health Psychology
Contributions of psychology to health promotion and illness prevention, adaptation to acute and chronic illness, and to the healthcare system.

PSY 468 Psychology and Law
Theories, research, and practice in psychology as related to law, including criminal, civil, domestic relations, and professional issues.

PSY 471 Psychological Testing
Methods and theory of psychological testing; various types of psychological tests; consideration of ethical, social, and legal aspects of testing.
PSY 474 Correctional Psychology

Covers the basic principles of correctional psychology, including psychologists’ roles in prisons and jails, the unique challenges of working in these settings, establishing successful relationships with correctional staff and inmates, and the various career opportunities in correctional psychology.

PSY 494 Special Topics
Comity, Hist, Rel in Cult Cont
Covers topics of immediate or special interest to a faculty member and students.

PSY 494 Special Topics
Undergrad Teach Assistant Exp
Covers topics of immediate or special interest to a faculty member and students.

PSY 494 Special Topics
Professional Field Experience
Covers topics of immediate or special interest to a faculty member and students.

PSY 500 Research Methods

Course on research methods in a specific discipline.

PSY 502 Professional Issues in Psych

Introduce graduate students to various aspects of the professional roles of psychology, as well as to the ethical standards of the profession.

PSY 515 Quantitative Research I

Introduces advanced experimental and quasi-experimental research design and analysis. Focuses on group-based design and univariate analysis of variance.
PSY 515 Quantitative Analysis I

Introduces advanced experimental and quasi-experimental analysis. Focuses on group-based design and analysis of variance.

PSY 528 Sensation and Perception

Principles of sensory and perceptual processes, emphasizing research literature.

PSY 545 Advanced Legal Psychology

Surveys psychological theory and research as applied to the cognitions, feelings and behavior of individuals in the legal system. Explores the implications of several subfields of psychology (e.g., social, cognitive, clinical) for legal settings, such as police departments, courtrooms, jury rooms. Provides foundation for those who are considering a career in forensic psychology, law, social work, criminal justice and should also be interesting to those who want to know more about the social and psychological issues at play in the legal system.

PSY 546 Advanced Forensic Psychology

Advanced overview of the clinical practice of forensic psychology: the assessment and treatment of people who interact with the legal system. Focuses on the ways in which psychologists do clinical work (assessment and treatment) to help courts make informed decisions about cases.

PSY 547 Correctional Psychology

Principles of correctional psychology, including psychologists’ roles in prisons and jails, the unique challenges of working in these settings and with incarcerated populations, establishing successful relationships with correctional staff and inmates.
PSY 549 Capstone in Forensic Psych

Culminating experience for students in the Master of Science in Forensic Psychology program. Students review and synthesize current literature in the field and make actionable research and policy recommendations through written exams.

PSY 550 Advanced Social Psychology

Theory and research concerning interpersonal perception, decision making, attitude formation and change, group processes, social motivation, and interaction processes.

PSY 573 Psychopathology

Theory and research relating to the contribution of psychological, social, physiological, and genetic factors to the development and persistence of abnormal behavior.

PSY 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

PSY 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

PSY 598 Special Topics

Professional Issues in Psychol

Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
PSY 598 Special Topics
Psychology of Aging
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PSY 598 Special Topics
Perspectives on Aging
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PSY 598 Special Topics
Emotion
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PSY 598 Special Topics
Choice and Decision Making
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PSY 598 Special Topics
Cognitive Neuroscience
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

PSY 598 Special Topics
Advanced Cognitive Science
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
PSY 598 Special Topics
Adv Developmental Psychology
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

PSY 598 Special Topics
Advanced Positive Psychology
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

PSY 598 Special Topics
School Psychology
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

PSY 598 Special Topics
Cross-Culture Psychology
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

PSY 598 Special Topics
Resilient Communities
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

PSY 598 Special Topics
Psychology of Mindfulness
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
PSY 598 Special Topics
Addiction/Treatment
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

REL 100 Religions of the World
Introduces the history of religious traditions of the world,
including Buddhism, Christianity, Hinduism, Islam, Judaism,
and others. Credit is allowed for only REL 100 or 200.

REL 321 Religion in America
History of religion in America with attention to issues of
historiography, pluralism, gender, race, ethnicity, politics, and
social reform.

SBS 300 Careers in Psychology
Professional and academic careers in psychology, with a focus
on both career and adult development. Provides opportunities
to enhance self-assessment and evaluation strategies for
both academic planning and postbaccalaureate professional
pursuits while also addressing current issues that affect us at
any stage of development.

SOC 101 Introductory Sociology
Fundamentals of sociology, organization of human groups and
society, processes of interaction, and social change.

SOC 315 Courtship and Marriage
Overview of courtship, marriage, and related processes,
 focusing on problematic aspects of these institutions from the
sociological perspective.
SOC 353 Death & Dying Cross-Cultural Persp

Scientific and humanistic approaches to the study of death and dying from the perspective of anthropology and allied disciplines. Uses a global, comparative approach across space and time from the earliest human burials to contemporary funeral events.

SOC 484 Internship
Asylum Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SOC 484 Internship
Asylum Athens Greece
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SOC 484 Internship
Asylum Italy
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SPA 101 Elementary Spanish

Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

SPA 102 Elementary Spanish

Fundamentals of the language. Emphasizes listening, speaking, reading, and writing.

STP 226 Elements of Statistics

Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation. Not open to majors in mathematics or the physical sciences.

WST 100 Women, Gender, and Society

Interdisciplinary introduction examining critical issues in women's studies.
WST 300 Women & Gender Contemporary Soc

Interdisciplinary examination of such topics as gender roles, work, education, sexuality, politics, health, and law.

ASU 10 Connect: ASU Orientation

Students will learn about ASU’s mission as the New American University, discover the value of a university degree from a research institution, discuss academic integrity, explore the tools used in online courses, and identify key components of a work/life/school balance plan.

ASU 10 Connect: ASU Orientation

Students enrolled in the Starbucks College Achievement Plan will learn about ASU’s mission as the New American University, discover the value of a university degree from a research institution, discuss academic integrity, explore the tools used in online courses, and identify key components of a work/life/school balance plan.

ASU 11 ASU Online Orientation

Students enrolled in ASU Online Orientation will learn about ASU and its mission as the New American University, discover the value of a university degree from a research institution, discuss academic integrity, explore the tools used in online courses, and identify key components of a work/life/school balance plan.
ASU 12 SDAP Online Orientation

Students enrolled in the Starbucks Degree Achievement Plan Orientation will learn about ASU’s mission as the New American University, discover the value of a university degree from a research institution, discuss academic integrity, explore the tools used in online courses, and identify key components of a work/life/studies balance plan.

ASU 42 Online Military Orientation

Active duty and veteran students enrolled in ASU 42 will explore ASU academic, veteran, and career resources, discover the value of a university degree from a research institution, discuss academic integrity, explore the tools used in online courses, and craft a plan balancing work, school, and life.

CSE 110 Principles of Programming

Concepts of problem solving using an object-oriented programming language, algorithm design, structured programming, fundamental algorithms and techniques.

IFT 100 Intro to Info Technology

Project-based introduction to the key concepts, tools and devices underlying today’s technologies. Introduces computer hardware, software and system architecture, the Internet, the World Wide Web and information technology ethics. Forms a foundation for future courses offered in the Information Technology major and the information technology discipline.

IFT 259 Intro to Internet Networking

Introduces the OSI model and the protocol layers associated with information communication technology. Describes the role and purpose of each layer. Provides an overview of how the Internet is structured and used to support networking in a modern information technology structure.
IFT 259 Intro to Internet Networking

Introduces students to the networking field. Students learn network terminology, protocols and topologies. Students also learn network architectures of Local Area Networks (LAN), Wide Area Networks (WAN) and related media, connections and components. Covers other topics including the OSI model, router configuration/programming, wireless transmission, IP addressing, network management and network security.

SAO 196 Study Abroad Office Placeholder
SAO: Exchange Program
Reserved for undergraduate participants in Study Abroad Office (SAO) Partnership and Exchange study abroad programs. This placeholder course remains on the student's academic record until the student's record is updated by SAO following the completion of the student's study abroad program. This course is then dropped and replaced with the ASU courses, credits, and grades equivalent to the coursework completed abroad. Students must register for at least the number of credits equivalent to full-time study at ASU (i.e., 12 hours during the fall and spring semesters, or 1-6 hours during the summer session). Students participating in an SAO Partnership program must register for the topic “SAO: Study Abroad Program”; participants in an SAO Exchange Program must register for the topic “SAO: Exchange Program.”
NOTE: This placeholder course is not an indication of the level of coursework or the total number of credits the student may complete abroad. Acceptance to an ASU Study Abroad Office pro
SAO 196 Study Abroad Office Placeholder
SAO: Study Abroad Program
Reserved for undergraduate participants in Study Abroad Office (SAO) Partnership and Exchange study abroad programs. This placeholder course remains on the student's academic record until the student's record is updated by SAO following the completion of the student's study abroad program. This course is then dropped and replaced with the ASU courses, credits, and grades equivalent to the coursework completed abroad. Students must register for at least the number of credits equivalent to full-time study at ASU (i.e., 12 hours during the fall and spring semesters, or 1-6 hours during the summer session). Students participating in an SAO Partnership program must register for the topic “SAO: Study Abroad Program”; participants in an SAO Exchange Program must register for the topic “SAO: Exchange Program.” NOTE: This placeholder course is not an indication of the level of coursework or the total number of credits the student may complete abroad. Acceptance to an ASU Study Abroad Office program is required.

SAO 596 Study Abroad Placeholder
SAO: Exchange Program
Reserved for graduate participants in Study Abroad Office (SAO) Partnership and Exchange study abroad programs. This placeholder course remains on the student's academic record until the student's record is updated following the completion of the student's study abroad program. This course is then dropped and replaced with the ASU courses, credits, and grades equivalent to the coursework completed abroad. Students must register for at least the number of credits equivalent to full-time study at ASU (i.e., 9 hours during the fall and spring semesters, or 1-6 hours during the summer session). Students participating in an SAO Partnership program must register for the topic “SAO: Study Abroad Program”; participants in an SAO Exchange Program must register for the topic “SAO: Exchange Program.” NOTE: This placeholder course is not an indication of the level of coursework or the total number of credits the student may complete abroad. Acceptance to a Study Abroad program is required.
SAO 596 Study Abroad Placeholder
SAO: Study Abroad Program
Reserved for graduate participants in Study Abroad Office (SAO) Partnership and Exchange study abroad programs. This placeholder course remains on the student's academic record until the student's record is updated following the completion of the student's study abroad program. This course is then dropped and replaced with the ASU courses, credits, and grades equivalent to the coursework completed abroad. Students must register for at least the number of credits equivalent to full-time study at ASU (i.e., 9 hours during the fall and spring semesters, or 1-6 hours during the summer session). Students participating in an SAO Partnership program must register for the topic “SAO: Study Abroad Program”; participants in an SAO Exchange Program must register for the topic “SAO: Exchange Program.” NOTE: This placeholder course is not an indication of the level of coursework or the total number of credits the student may complete abroad. Acceptance to a Study Abroad program is required.

ASU 101 The ASU Experience

Students will learn about ASU’s mission as the New American University, the importance and benefits of an entrepreneurial approach to problem solving, solutions to sustainability challenges, and the importance of social embeddedness. Additionally, through various course discussions and assignments, students will examine the concept of academic integrity and its potential impact on their future, gain awareness of the value of engaging in research activities, and learn about taking an interdisciplinary perspective.
EMS 502 Global Context I

Leaders in any organization face an increasingly connected and transparent world where social and environmental issues must be weighed in everyday decisions. Explores iconic sustainability issues and trends and their impact on their organization, institutions, communities and stakeholders. Applies tools to identify the relevant risks and opportunities within their organizational context and investigates potential responses.

EMS 502 Global Context I

Examine global sustainability issues, determine materiality for their organization and practice communicating this information to critical stakeholders, i.e., translating the complex global context into compelling organizational realities. Applies tools to identify relevant risks and opportunities within their organizational context and investigates potential responses.

EMS 503 Strategic Sustainability I

Sustainability requires that strategic thinking reaches beyond traditional forms and horizons of strategic planning, such as forecasting and prediction, in order to deal with expanded planning dimensions, emerging “wicked problems” and to identify flexible platforms for success. Explores the interface between strategy and sustainability, developing a framework for strategic sustainability that underpins authentic and transparent strategic efforts. Students engage in mapping, planning and prioritizing methods, tools and techniques to identify and assess strategic opportunities.
EMS 503 Strategic Sustainability I

As a foundational course in strategic sustainability, focuses on sustainability as a strategic lens. Explores the interface among strategy, sustainability and ongoing success, developing a framework for strategic sustainability that underpins authentic and transparent strategic efforts. Identifies the different levels and implications of organizational maturity from a strategic sustainability perspective. Engages in systems mapping, planning and prioritizing methods, tools and techniques to identify and assess strategic opportunities.

EMS 504 Comm & Sustainability I

One of the greatest challenges for leadership in sustainability is multidisciplinary communications. Currently, sustainability itself lacks meaning and emotion, which leads to a lack of commitment and execution. Therefore, all future executives must be proficient communicators who can convey vision and human context to the organization's sustainability initiatives. Helps you survey your internal communications environment, understand students target audiences and their unique customer centricities and develops their voices through the use of proven story structure.

EMS 504 Comm & Sustainability I

This foundational course for professional communications aims to create chief sustainability storytellers. Helps students survey their internal communications environments, understand their target audiences and their unique customer centricities, and develop their voices through the use of proven story structures and techniques.
EMS 505 Sustainability Leadership I

The practice of leadership in sustainability requires leading in multidisciplinary roles across multiple scales of an organization. In many of today’s organizations, leadership must identify, communicate and support novel organizational contexts as sustainability emerges. Enables students to meld powerful and traditional leadership skills while challenging the student’s prior knowledge with multiple lens of leadership in a sustainability context. Students create a personal plan for their unique needs and personal growth toward sustainability leadership.

EMS 505 Sustainability Leadership I

Focuses on emerging sustainability leadership. Students meld powerful and traditional leadership skills while challenging their prior knowledge with a multiple lens examination of leadership in a sustainability context. Provides a view of oneself to prepare students to better understand others. Students create the first phase of their personal plans for their unique needs and individual growth toward sustainability leadership.

EMS 506 Global Context II

As material sustainability issues are identified and prioritized and as the organization applies sustainability as core success platform, the organization looks to mitigating risks outside of its control, shaping the risks it can control, and creating new opportunities and leveraging those identified in the process. Global context comes into focus not only in expanding resource relationships and concerns, but also across dimensions of time, responsibility, success and a growing need to engage with an ever-growing group of stakeholders and potential partners. Organizations and leaders must innovate and execute at all levels of the organization to match the evolving reality. Explores and applies global sustainability as a knowledge platform for ongoing success, organizational innovation and effective organizational leadership.
EMS 506 Global Context II

Building on the skills gained in previous course work, explores proactive response strategies to material global sustainability challenges and opportunities. Examine how organizations can evolve from risk avoidance and compliance to innovation and thought leadership and explores what role they can play as sustainability leaders.

EMS 507 Strategic Sustainability II

As sustainability becomes a core strategic goal of any organization, it impacts all aspects of the organization from informing risk and reward to the definitions and dimensions of innovation and overall success. Uses reframing, re-visioning and backcasting via a sustainability lens as constructs for introducing strategic sustainability across all aspects of an organization—both internally and externally. Applies various methods such as natural capitalism, design for sustainability/ method of sustainable product design, Anderson method, cradle-to-cradle and framework for strategic sustainable development to develop flexible action platforms for sustainable enterprises. Students create a strategic vision, action plan for an organization, including critical external partnerships with communities and institutions.

EMS 507 Strategic Sustainability II

Uses reframing, re-visioning and backcasting via a sustainability lens as constructs for introducing strategic sustainability across all aspects of an organization both internally and externally. Students apply and integrate various science-based methods, used successfully by organizations large and small, for developing flexible action platforms for sustainable enterprises. Expects students to create a strategic vision and action plan for an organization.
EMS 509 Comm & Sustainability II

Marketing and communication professionals in all industries are attempting to keep up with the rapidly expanding landscape of multichannel communications. This is especially true in sustainability, given that the Chief Sustainability Officer must understand and appreciate the modes of communications across all platforms, not just in the consumer market. Maps internal, external and target audiences/markets; strategizes channels to reach them with sustainability stories; and creates a multichannel communications plan that incorporates modes of engagement for all audiences.

EMS 509 Comm & Sustainability II

Focuses on audiences and looks at how and where students are telling their stories of sustainability. Students map internal, external and target audiences/markets, strategize channels to reach them with their sustainability stories, and create multi-channel communications plans that incorporate modes of engagement for all audiences.

EMS 510 Sustainability Leadership II

As sustainability emerges as a core strategic platform for an organization, leadership and sustainability intertwine; leadership opportunities--and responsibilities--greatly expand; thus requiring innovation. Individual leadership and organizational leadership are asked to find opportunity via extended definitions of critical systems; value webs, increased roles for diverse internal and external partnerships, and the need to lead within increasingly complex and unpredictable global systems. Engage students to challenge their prior definitions of systems, responsibility and community from the perspective of sustainability and leadership and provides a toolbox for leading with sustainability as a fundamental success platform.
EMS 510 Sustainability Leadership II

Challenges prior definitions of systems, responsibility and community from a sustainability and leadership perspective. Also provides a toolbox for leading with sustainability as a fundamental success platform. Provides information needed for students to better understand others, a necessary skill to be able to persuasively lead others to transform their organization into a sustainable enterprise. The focus shifts away from being centered around oneself and towards a focus on audience/stakeholders. Students continue to develop their personal leadership skills.

EMS 511 Global Context III

Sustainability leaders help their organizations recognize when material issues require solutions that extend beyond their control or capabilities, and when to look for, participate in and potentially lead industry, cross-industry, regional or other collaborative approaches. Global sustainability context becomes an increasingly proactive concept where individual and organizational responsibility and success extends to a global scale. Organizations organize themselves as agents of change toward sustainability that aligns with more traditional organizational success. Students learn from successes and failures of current and past attempts and assess the implications for this change in leadership perspective to their organizational context.

EMS 511 Global Context III

Expands student perspectives beyond the needs of their organizations and considers what could be gained from industry and cross-industry collaborations. Assesses the implications of changes in leadership perspectives to their organizational contexts.
EMS 512 Strategic Sustainability III

Organizations that aim at sustainability come to recognize that they must be part of sustainable success on all scales, from local to global, from internal to external and for today and tomorrow. Tools such as resource plans, investment pathways, stakeholder engagement and policy influencers set the theatre for sustainability-oriented organization to challenge the status quo and advance agendas that embed both success and sustainability. Students apply their enhanced strategic sustainability skills to examine select case studies on international sustainability in corporate and nongovernmental agencies.

EMS 512 Strategic Sustainability III

Focuses on expanding efforts for strategic planning and sustainable success beyond the bounds of a given enterprise through strategic collaboration, partnering, innovation and resource development. Applies strategic sustainability as a tool for developing synergistic collaborations and driving innovation for more sustainable enterprises and enterprise systems. Also develops sustainability-informed collaborative approaches to identify and garner resources for strategic imperatives.

EMS 513 Comm & Sustainability III

Most stories of sustainability are driven and told with data as its central character. Unfortunately, data is nearly meaningless to our minds unless it is placed in an illuminating human context. The best chief sustainable storytellers bring meaning to data through the use of metaphor brought to life by thought-provoking narrative. Story grips the mind and propels people forward. Students develop proof of concepts for campaigns, expand social media presence and influence, create and record a 20-minute presentation in the style of a TedTALK, and become a leader in sustainable communications.
EMS 513 Comm & Sustainability III

Ignites the storyteller within as students learn to think like authors; craft their stories in scenes; and produce their presentations to entertain, educate and engage their audiences to move them to action. Reveals the students' transformation into courageous storytellers in presentations that combine their compelling narratives with captivating visual storytelling. Also creates social media editorial calendars to publish their stories to help express their thought leadership in sustainability online. By the end of this course, students learn how to own any room, from the boardroom and break room to the chat room and living room.

EMS 514 Sustainability Leadership III

Lasting, sustainable change fully takes hold once ownership and accountability extends well into the organization and community. Engages the student to identify and apply pathways to inspire, persuade and influence others to act toward a shared global vision. Future orientation, reframing organizations to be globally scalable and still be locally focused, leadership best practices for diverse, multinational, and international human talents and redefining success and growth using sustainability as a success lens are great tasks that sustainability leaders face.

EMS 514 Sustainability Leadership III

Focuses on transformational leadership for global success, which requires students to identify and apply pathways to inspire, persuade and influence others to act toward a shared global vision. Some of the challenges that all future sustainability leaders face are future orientation; reframing organizations to be globally scalable yet locally focused; and redefining success and growth using sustainability as a success lens. These are just a few of the challenging tasks that sustainability leaders face. Importantly, sustainable leadership involves being an effective change leader, and this course provides the tools and learning needed to initiate and sustain change.
SOS 100 Introduction to Sustainability

Introduces basic concepts, global trends, and local responses, philosophical, ethical, and cultural dimensions.

SOS 101 Intro Appl Math Life & Soc Sci

Introduces quantitative techniques as applied to problems in the life and social sciences. Includes challenges like understanding the complexities of the human genome or the implications of globalization for infectious disease, human health, and economic stability.

SOS 110 Sustainable World

Lays the groundwork for understanding the fundamental geological, biological, and social processes that gave rise to the world we live in and continue to maintain its viability for human life.

SOS 111 Sustainable Cities

Introduces technological, social, and cultural principles and innovations for cities under the notion of sustainability and sustainable development within the global, regional, and local contexts.

SOS 117 Food System Sustainability

Food systems are particularly important for human societies to sustain and are also particularly vulnerable to multiple threats related to the interconnected sustainability challenges we face. Introduces the concepts and issues involved in food systems sustainability. Divided into four modules, the first three of which address the other systems with which food systems interact—socio-ecological, socio-cultural and socio-technical systems. The final module addresses the future of food systems. Teaches students about the main issues in food system sustainability and allows students to enhance their critical thinking skills by applying them to the many sustainability challenges associated food system activities via solutions-based learning including the social, ecological, economic and institutional dimensions.
SOS 171 The Thread of Energy

Follows the thread of energy through every aspect of our lives. Discusses the technical, social, legal, and policy contexts of all energy resources, including present and unconventional fossil fuels, nuclear power, and renewable resources. Addresses energy use throughout history, the influence of energy on quality of life, the role it plays in political strategies and environmental quality, how it shapes our neighborhoods and cities, its contribution to our personal comfort and national security, and how its importance is reflected in the worlds of business and the humanities. Its dual role is as a stand-alone introduction to energy, and as a first step to more advanced studies of energy in the natural, technical, and social sciences.

SOS 191 First-Year Seminar

Small course emphasizing student-faculty discussion and interaction. Required for first-year students. Must have taken 25 or fewer credit hours. Consulting an academic advisor before enrolling is recommended.

SOS 191 First-Year Seminar
Intro. ASU & SOS for Freshmen
Small course emphasizing student-faculty discussion and interaction. Required for first-year students. Must have taken 25 or fewer credit hours. Consulting an academic advisor before enrolling is recommended.

SOS 191 First-Year Seminar

Small course emphasizing student-faculty discussion and interaction.

SOS 191 First-Year Seminar
Intro. ASU & SOS for Freshmen
Small course emphasizing student-faculty discussion and interaction.
SOS 201 Introduction to ASU and SOS

Introduces all ASU transfer students to the unique elements, culture, challenges and opportunities of the university.

SOS 211 Calculus and Probability

Introduces two of the most important and useful mathematical frameworks used to study natural and social phenomena: probability and calculus. Probability is used to describe an attitude of mind toward some proposition whose truth is not certain. Calculus is the branch of mathematics used to study the behavior and dynamics of functions: calculus is the mathematical study of change. Students gain the basic competence needed for applying probability and calculus when thinking about and research problems in sustainability. Focuses on and discusses applications, the meaning of important concepts, the origins of the rules of derivation and integration, and logic behind why the methods work.

SOS 212 Calculus-Based Modeling

Introduces the evaluation and construction of mathematical models used in the life and social sciences. Includes the basic steps in developing a model, analyzing it, and testing it with actual data. Covers the first steps concerning how to use formal mathematical techniques including developing equation-based relationships, plotting graphs, linear regression, and solving equations using computer software.

SOS 212 Systms,Dynamics&Sustainability

Introduces the evaluation and construction of mathematical models used in the life and social sciences. Includes the basic steps in developing a model, analyzing it, and testing it with actual data. Covers the first steps concerning how to use formal mathematical techniques including developing equation-based relationships, plotting graphs, linear regression, and solving equations using computer software.
SOS 220 Systems Thinking

Introduces systems thinking and complexity science, with an emphasis on analytical relevance for thinking about a myriad of issues involved in sustainability. Hones students' abilities to read critically, articulate their views clearly, and think about the many systems that shape their lives.

SOS 230 Professional Skills-Sustainability

Builds interpersonal competence, which is a key competence in sustainability. Students work on a small hands-on sustainability project in order to practice professional skills in four domains: teamwork, project management, self-directed and continuous learning, and stakeholder engagement. Students learn how to effectively collaborate in teams, use project management tools to achieve quality products in time, innovate their ways of learning, and create productive dialogue with stakeholders.

SOS 231 Careers in Sustainability

Aids in career exploration and development for School of Sustainability majors. Explores values, motivations and career options. Students learn how to approach the job search and how to communicate sustainability to employers; also how to prepare a quality résumé, cover letter, and gain a better understanding of the benefits of networking.

SOS 232 Prof Skills in Sustainability

Students learn how to effectively and compassionately communicate, engage in collaborative teamwork, use project management tools to achieve quality products on time, innovate their ways of self-directed and continuous learning, engage with stakeholders on solutions, and ensure mindful self-care. Students work on a sustainability project, practicing this set of professional skills in a real-world context.
SOS 294 Special Topics
Sustainability, Science, Society
Covers topics of immediate or special interest to a faculty member and students.

SOS 300 Adv Cncepts & Intgrted Approaches

Integrates disciplinary contributions to sustainability, teaches advanced concepts in sustainability, and explores methods for identifying sustainability challenges and generating solutions. Focuses on diversity of sustainability research, and integrates specialized approaches in sustainability. Advanced concepts in sustainability, including systems-thinking, complexity, nonlinearity, cascading effects, coupled natural-human systems, governance, future thinking, unintended consequences, normative concerns, transformation, power, participation, and equity.

SOS 310 Equity, Justice & Sustainblity

Introduces the “social justice” aspects of sustainability science and practice. Sustainability problems are a special class of problems arising from a complex set of issues spread across time, space and institutional scales. These problems can threaten underlying social, economic and ecological systems which are highly intertwined and interdependent. Explore these issues through study of both theory and practice.

SOS 311 Future Thinking and Strategies

Offers a critical introduction to future-oriented theories and methods. Explores anticipation in contemporary society through a series of cases studies that probe real-world sustainability issues and how the future is created and contested. By characterizing and critiquing future-oriented practices across governmental, academic and private sectors, offers a critical perspective on different methodological approaches and the implications of their use.
SOS 314 Basic Energy Science

Explains the concepts of the science of energy for those without a background in engineering. Allows non-engineering students to better grapple with the issues that surround sustainable energy issues. Covers the most common methods of electricity generation as well as renewable technologies and fuels.

SOS 315 Energy Policy

Examines the regulation of energy production and consumption in the U.S. at the federal, state and local levels. Identifies energy stakeholders in the U.S. and examines how they have shaped U.S. policies around energy. Explains past and current U.S. energy policies and how energy needs have shaped U.S. relations with other countries. Compares U.S. energy policies to that of other countries in the world, as well as how Arizona’s energy policies compare to other states within the U.S.

SOS 320 Society and Sustainability

Establishes an understanding of the human, social, and cultural dimensions of sustainability from multi- and interdisciplinary perspectives and at a variety of spatial and temporal scales.

SOS 321 Policy & Gov in Sustain Systms

Explores the wide array of political questions that are raised when we view the Earth’s environment as an integrated, global system.
SOS 322 Intl Development&Sustainability

Historical roots of the idea of development; economic theories of growth and their implications for sustainability; interrelationship among population growth, food security, poverty, inequality, urbanization, technological change, international trade, and environmental change at local, regional and global scale.

SOS 323 Sustainable Urban Dynamics

Human and physical processes shaping urban ecologies and environments; human-environment interactions in the context of an urban region; effect of the institution and regulatory framework on the ability of social and urban-ecological systems to be resilient and sustainable; urban design, materials, transport, planning, and regulation.

SOS 324 Sustainable Energy Tech & Sys

Comprehensive survey of current and future energy systems; thermodynamics and energy analysis; environmental, economic and social impacts; resources, technologies and infrastructure for electricity and transportation.

SOS 325 Economics of Sustainability

Applies economic principles to the allocation of environmental goods and services, external environmental effects, and environmental public goods; decision-making under uncertainty, adaptation to and mitigation of environmental change.

SOS 326 Sustainable Ecosystems

How human activities and management practices alter biodiversity, ecosystem functioning, and the provisioning of ecosystem services; use of economic and other social science perspectives to estimate the value of ecosystem services; evaluation of options for achieving the sustainable flow of services from ecosystems.
SOS 327 Sustainable Food and Farms

Food systems and sustainability. Theories of food security, rural livelihood sustainability, and food sovereignty. Critically examines the social, ecological, economic, and institutional dimensions of the many sustainability challenges associated food system activities (production, processing, distribution, consumption, waste). Students develop a food system framework and apply knowledge to an assessment of the sustainability of one aspect of the local food system.

SOS 328 Sustainability and Enterprise

Examines the evolving interface between sustainability and human enterprise. Explores and reviews key fundamental concepts in the sustainability arena, including economic and scientific drivers and select historical and structural aspects that create the current context for the enterprise and sustainability interface found today. Delves into more specific case studies of attempts by current businesses to become greener and more sustainable, exploring challenges and opportunities that are commonly found as well as how decisions are often made in today’s business settings and by whom. Explores alternative enterprise models and examples of businesses that are using the current context to redefine the sustainability and enterprise. Given the emergent nature of this effort, uses timely and real-world examples from current events where possible. Explores and applies an integrated approach to sustainability and enterprise. Readings include popular texts, original research articles and current

SOS 394 Special Topics
Sustaining the Commons
Covers topics of immediate or special interest to a faculty member and students.

SOS 394 Special Topics
The Global Water Classroom
Covers topics of immediate or special interest to a faculty member and students.
SOS 394 Special Topics
Exploring Data with R
Covers topics of immediate or special interest to a faculty member and students.

SOS 394 Special Topics
From Cells to Societies
Covers topics of immediate or special interest to a faculty member and students.

SOS 394 Special Topics
Culture&Society Transformation
Covers topics of immediate or special interest to a faculty member and students.

SOS 394 Special Topics
Renewable Energy in Hawaii
Covers topics of immediate or special interest to a faculty member and students.

SOS 414 Urban and Environmental Health
Integrates theory and practice of social sciences (including anthropology, demography, and human geography) to understand environmental contexts of health, particularly urban.

SOS 465 Sustainable Urbanism
History, theory, principles and practice of New Urbanism, including current critiques and counter-critiques of both movements.

SOS 484 Internship
Professional Development&Reflection
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SOS 484 Internship
Capstone: Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.
SOS 484 Internship
Capstone: Research
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SOS 484 Internship
Elective Internship
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

SOS 485 Business and Sustainability II
Exposes students to a variety of ideas, concepts, theories, and models concerning sustainable technologies. Students learn to apply a systematic research process in order to assess a technology with potentially positive sustainability attributes; perform hotspot analysis on a technology in order to understand key environmental and social issues; forecast the future of a sustainable technology through application of technology forecasting models; predict how sustainable technologies are likely to get successfully adopted and diffused.

SOS 485 Business and Sustainability II
Second of two related courses focusing on the environmental, social and economic dimensions of sustainable technologies and exposes students to a variety of related concepts and theories. Describes technology hotspot analysis, life cycle assessment and a variety of models of technology forecasting and diffusion.

SOS 494 Special Topics
Soc/Cltr In Modern Europe
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sustble Neighbr-Happinss Guate
Covers topics of immediate or special interest to a faculty member and students.
SOS 494 Special Topics
HumanRights&Sustainability-Brazil
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sust Devel Across the Med
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Resiliency and Earthquake
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Cities Sustain Policy-HongKong
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sustainability in Museums
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sustainable Dev. Across Morocco
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Building Community Res II
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Building Community Resilience
Covers topics of immediate or special interest to a faculty member and students.
SOS 494 Special Topics
Sustainable Development Goals
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Prep-Grassroots Innovation
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Prep-Sust. Food Syst, Communit
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Grassroots Innovation for Sust
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Reimagining Sust. - Nepal
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Global Citizenship Program
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sust.Food Sys.,Comm.Dev.&Happ2
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Development/Sustainability-Ecu
Covers topics of immediate or special interest to a faculty member and students.
SOS 494 Special Topics
Sust.Food Sys.,Comm.Dev.&Happi
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
PrepEngaging Comm.Energy& Edu
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Migration, Environment,Global
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Prep-Comm. Sust. in Greece
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Cuba:Edge of Rapid Transitions
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Comm Sustainability in Greece
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Engaging Comm. in Energy&Edu
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Intro. to Ethical Circ. Econ.
Covers topics of immediate or special interest to a faculty member and students.
SOS 494 Special Topics
Pre-Innovation in Green Growth
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sustainable Consumer Education
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Sust Mgmt of Military Lands
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Carbon Management
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Costa Rica: Debt-For-Nature/Eco
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Urban Sust. in Hong Kong
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Emerald Cities and Climate
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Society and Natural Resources
Covers topics of immediate or special interest to a faculty member and students.
SOS 494 Special Topics
Approaches to Development
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Water Challenges and Solutions
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Prep Denmark Sust Food Sys Com
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Communicating About Sustainabi
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Prep-Sustainable Wildlife Econ
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Socio-ecol.Systems&Adaptation
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Prep-Cambodia&Vietnam SA
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Climate Science and Policy
Covers topics of immediate or special interest to a faculty member and students.
SOS 494 Special Topics
Malaysia: Innovation and Urban
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Social Dimensions of Climate Change
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Cambodia & Vietnam Study Abroad
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Innovation in Green Growth
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Food and the Coming Climate
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Denmark: Sust Food Sys Com Hap
Covers topics of immediate or special interest to a faculty member and students.

SOS 494 Special Topics
Challenges of Wildlife Economy
Covers topics of immediate or special interest to a faculty member and students.

SOS 498 Pro-Seminar
Coastal Resiliency Planning
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.
SOS 498 Pro-Seminar
The Changing Energy Industry
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SOS 498 Pro-Seminar
Urban Sust. Redevelopment
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SOS 498 Pro-Seminar
Measuring City Sustainability
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SOS 498 Pro-Seminar
Urban Sust. Redevelopment
Small-group study and research for advanced students within their majors.

SOS 498 Pro-Seminar
The Changing Energy Industry
Small-group study and research for advanced students within their majors.

SOS 498 Pro-Seminar
Sustainable Consumer Education
Small-group study and research for advanced students within their majors.

SOS 498 Pro-Seminar
Measuring City Sustainability
Small-group study and research for advanced students within their majors.
SOS 501 Foundations of Sustainability

Foundations of Sustainability is designed to introduce uniform and civilian leaders to the major challenges in global sustainability: energy and climate change; urbanization; international development; water; biodiversity and habitat conservation; food and agriculture; and, and business and economics. It is also designed to introduce them to the major concepts in sustainability science: systems dynamics; scale; long term development; tradeoffs; and, collaboration and participation.

SOS 501 Foundations of Sustainability

Provides a knowledge base to help students to succeed in the online MSL program. Supports MSL students in the four learning threads of the program, which include communications and sustainability, global context, strategic sustainability and sustainability leadership.

SOS 509 Leading Sust Transitions

The vast majority of organizations must significantly change their operational models in order to become sustainable. Leaders must determine how to champion this change, generate momentum, and align internal reward systems to facilitate these transitions. Exposes students to different change models that are applicable to private, public and nonprofit organizations. Introduces a variety of practical cases that serve as a foundation to apply different frameworks that help transition organizations toward being sustainable.

SOS 515 Industr Ecol & Design for Sust

The conceptual, ethical, and practical challenges in the design, manufacture, and life cycle performance of products; environmental evaluation via materials flow analysis and life cycle assessment; global economic, environmental, cultural, and social aspects of competitive and functional product development and manufacture.
SOS 552 Adv Earth Systems Engr&Mgmt

Advanced introduction to earth systems engineering and management, and the technological, economic and cultural systems underlying the terraformed Earth.

SOS 591 Seminar
Sustainable Development Goals
A small class emphasizing discussion, presentations by students, and written research papers.

SOS 591 Seminar
Prncpl Engage&Rsch Intnl Setgs
A small class emphasizing discussion, presentations by students, and written research papers.

SOS 591 Seminar
Intntl Devt Theories&Practices
A small class emphasizing discussion, presentations by students, and written research papers.

SOS 591 Seminar
Society and Natural Resources
A small class emphasizing discussion, presentations by students, and written research papers.

SOS 591 Seminar
Socio-ecol.Systems&Adaptation
A small class emphasizing discussion, presentations by students, and written research papers.

SOS 592 Research

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.
SOS 593 Applied Project
Intro to Capstone
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

SOS 593 Applied Project
Capstone I
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

SOS 594 Conference and Workshop
Urban Sust Redevelopment
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

SOS 594 Conference and Workshop
The Changing Energy Industry
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

SOS 594 Conference and Workshop
Sustainable Consumer Education
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

SOS 594 Conference and Workshop
Measuring City Sustainability
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.
SOS 598 Special Topics
Sust Devel Across the Med
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Soc/Clttr In Modern Europe
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Sustble Neighbr-Happinss Guate
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
HumanRights&Sustainbilty-Brazl
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Communicating About Sustainab
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Prep - Community Resilience
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SOS 598 Special Topics
Prep-Sustainability in Museums
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Sustainability in Museums
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Cities Sustain Policy-HongKong
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Building Community Res II
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Building Community Resilience
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Prep-Development/Sust.-Ecuador
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SOS 598 Special Topics
Prep- Grassroots Innovation
Topical courses not offered in regular course rotation--e..g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.

SOS 598 Special Topics
Reimagining Sust. - Nepal
Topical courses not offered in regular course rotation--e..g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.

SOS 598 Special Topics
Grassroots Innovation for Sust
Topical courses not offered in regular course rotation--e..g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.

SOS 598 Special Topics
Global Citizenship Program
Topical courses not offered in regular course rotation--e..g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.

SOS 598 Special Topics
Sust.Food Sys.,Comm.Dev.&Happi
Topical courses not offered in regular course rotation--e..g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.

SOS 598 Special Topics
Development/Sustainability-Ecu
Topical courses not offered in regular course rotation--e..g., new
courses not in the catalog, courses by visiting faculty, courses
on timely topics, highly specialized courses responding to unique
student demand.
SOS 598 Special Topics
Prep-Sust. Food Syst, Communit
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
PrepEngaging Comm. Energy & Edu
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Prep-Comm. Sust. in Greece
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Cuba: Edge of Rapid Transitions
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Comm Sustainability in Greece
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Engaging Comm. in Energy & Edu
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SOS 598 Special Topics
Intro. to Ethical Circ. Econ.

Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Carbon Management
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Pre-Innovation in Green Growth
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Sust Mgmt of Military Lands
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Sustainable Consumer Education
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Costa Rica:Debt-For-Nature/Eco
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SOS 598 Special Topics
Urban Sust. in Hong Kong
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Emerald Cities and Climate
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Approaches to Development
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Prep Denmark Sust Food Sys Com
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Prep-Cambodia&Vietnam SA
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
SOS 598 Special Topics
Communicating About Sustainability
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Prep-Sustainable Wildlife Econ
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Water Challenges and Solutions
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Malaysia: Innovation and Urban
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Climate Science and Policy
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SOS 598 Special Topics
Social Dimensions of Climate Change
Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SOS 598 Special Topics
Cambodia&Vietnam Study Abroad
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Innovation in Green Growth
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Food and the Coming Climate
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

SOS 598 Special Topics
Challenges of Wildlife Economy
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
TAM 505 Navigating Global & RBEs

Globalization has dramatically expanded opportunities for international trade, investment and economic development, but potential trade disputes, international financial crises, political risks, international environmental regulations and ethical dilemmas in global business have also emerged. Develops analytical tools for understanding the rapidly changing and dynamic global business environment, especially in the era of 4th Industrial Revolution. With these tools, managers are better prepared to manage risks and take advantage of opportunities in the global economy. Deals with the regional business environment. Begins with a brief geographical, demographic and cultural overview of the region, and develops tools for analysis useful to assessing the Latin American business environment. While the emphasis is Latin America, the same tools could be applied to any region of the world.

TAM 511 Accounting for Business Ldrs

Focuses on external financial reporting to financial statement users outside the enterprise in both the United States and internationally. Topics include the history and role of financial accounting standards and financial statements in an economy, the preparation of financial accounting records and statements, and the financial accounting standards that govern the measurement of the underlying financial activity in an enterprise. Our study of the methods and measures mandated in financial accounting standards includes both U.S. Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS). Also covers an analysis of costs and cost behavior, which naturally leads to our being able to estimate future costs of products or activities, and then to cost planning at different levels of activity and cost inputs.
TAM 511 Global Accounting

Covers the fundamentals of financial accounting and managerial accounting in a global environment. Financial accounting focuses on providing useful information to users for external decision making. By understanding the structure and process of preparing a balance sheet, income statement and statement of cash flows, students learn how to interpret, analyze and evaluate domestic and international companies. Managerial accounting focuses on providing useful information for internal decision making. By identifying and understanding different types of cost information, students learn how to utilize and prepare cost-volume profit analysis, relevant cost analysis, activity-based costing and performance evaluation within global organizations.

TAM 521 Financial Analysis and Mgmt

Covers fundamental theories and practices of modern financial management within a market-oriented framework. Develops analytical skills for sound decision making and management. Emphasizes practical applications and equips learners with tools necessary for making investment and financing decisions and corporate valuation. Learning is achieved via problem solving, lectures, case analysis and discussions.

TAM 521 Finan Value Creation for Ldrs

Covers fundamental concepts and practices of modern financial management within a market-oriented framework. Develops analytical skills for sound financial decision making and management. Emphasizes practical applications and equips learners with tools necessary to make investment and financing decisions in a global setting. Achieves learning via problem solving, video lectures, case analysis and discussions.
TAM 530 Data Analysis & Decisions

Covers concepts, techniques and applications of commonly applied quantitative tools to large data sets that are now ubiquitous in everyday business. Understands and applies statistical techniques in order to improve the quality of managerial decisions. Starts with elementary statistics (measures of dispersion, location, random variables) and moves on to cover frequently used managerial models (Regression, ANOVA). Emphasizes the application of these techniques in a wide variety of data sets across industries—to that extent students use Excel (still the language of office math) and SPSS (more advanced software) to help pick the needles in the haystack. Once mere data is transformed into information, students evaluate its adequacy and glean insights for decision making.

TAM 531 Project and Ops Leadership

Strategies and challenges associated with leading projects and designing and improving service and manufacturing processes. Topics include project management, value-chain structures, supplier partnerships, logistics, risk management and value-stream mapping.

TAM 534 Entrepreneurship Bus Plan

Emphasizes the development, process and tools required to create a business or acquire a business in an emerging market. Builds a business plan utilizing the business model canvass as well as the startup map. Also dives into term sheets, letters of intent.
TAM 534 Global Venture Creation

Covers the most essential topics for first-timer startup founders. Teaches how to quickly identify and test new business ideas, and how to launch a new venture when an idea worth pursuing is found. Provides a good understanding of the entrepreneurial journey and what is involved when launching a new business. Students develop a new business idea, build and test business model and deliver a professional business pitch at the end of the course. Highly experiential and involves a great deal of customer interactions.

TAM 541 Strat in a Competitive World

Focuses on choices that have an impact on the performance of the entire organization or business start up. Includes the problems faced by, and the decisions made by, executive leaders who have to balance the needs and expectations of stakeholders including customers, shareholders and employees with the requirements of local country practices and government regulations. Analyzes problems and decisions from the point of view of the founder, general manager or chief executive who has responsibility for the welfare of the entire organization. By focusing on policy decisions, concerns the choice of goals as well as the organization; management and deployment of scarce resources to pursue these goals within the context of an imperfect, changing and competitive world.

TAM 542 Leadership and Personal Devel

Personal leadership development is optimized by grounded reflection, self knowledge and continuous learning as we interact with others. Therefore, the personal development part of this course cultivates introspective and skill-building competencies that include conceptual grounding that is based in an experiential learning focus. Discusses self- and other-awareness and engages in group/team interaction, as well as conducts individual self-assessments and individual feedback. In addition to developing ourselves at the personal level, developing ourselves as leaders at the organizational level is imperative to sustainability of the company.
TAM 542 Global Ldrshp & Personal Devlp

Personal leadership development is optimized by grounded reflection, self knowledge and continuous learning as we interact with others. Therefore, the personal development part of this course cultivates introspective and skill-building competencies that include conceptual grounding that is based in an experiential learning focus. Discusses self- and other-awareness and engages in group/team interaction, as well as conducts individual self-assessments and individual feedback. In addition to developing ourselves at the personal level, developing ourselves as leaders at the organizational level is imperative to sustainability of the company.

TAM 582 Comm & Neg in Dyn Gbl Wld

Improves global mindset and negotiation skills by focusing on cross-cultural issues, communication issues and negotiation in cross-cultural environments. Provides an in-depth examination of culture, its managerial implications and negotiation. Explores various methodologies to understand and measure national cultures. Embarks on a rigorous and practical journey to examine the impact of national culture, no matter how it is measured, on communication dynamics in a cross-cultural environment and focuses on specific skill sets to help students succeed in such situations.

TAM 597 Integrative Project

Integrates business subjects covered in the program online. Helps students fine tune their business plans and prepare presentations for potential fund raising. Provides tools for effective presentation, preparing pitch deck for fund raising and successful negotiation of the term sheets. Learning is achieved via lectures, discussions, presentations and role play as negotiators.
TBX 598 Special Topics
Fundamentals of Accounting
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Global Political Economy
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Data Analysis
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Spanish I
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Spanish II
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Competing Through People
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
TBX 598 Special Topics
Finance Fundamentals
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Competitive Strategy
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Reg Bus Envir: Asia
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Global Marketing
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Reg Bus Envir: Europe
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Global Organizational Behavior
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
TBX 598 Special Topics
Global Economics
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Financial Management
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Cross Cultural Communication
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Global Financial Management
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Managerial Decision-Mkg/Acctn
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
RBE Middle East/North Africa
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
TBX 598 Special Topics
Reg Bus Envir: Latin America
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Global Enterprise
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Global Negotiations I
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Global Leadership
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

TBX 598 Special Topics
Operations Management
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
TBX 598 Special Topics
Independent Research
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Global Mgmt for 21st Century
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Global Negotiations II
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

TBX 598 Special Topics
Global Strategy
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
TGM 101 Principles of Global Mgmt

Provides the basic concepts of management with particular emphasis on the functions of management in a global environment. Examines the antecedents of globalization; the role of global environments in shaping organization structure, strategy and processes, as well as the basic principles of managing in complex cross-cultural settings. Emphasizes global institutional arrangements and macroeconomic issues. Serves as an introductory course that provides a quick snapshot of key issues facing global corporations today with each of the major themes explored more fully in the set of advanced courses that follow. Applies global business concepts in understanding global political economics, legal systems and socio-cultural environments.

TGM 200 Prins of Acctng/Global Orgs

Focuses on financial and managerial accounting and examines how outsiders evaluate businesses, nonprofits and governmental operations and how economic events are reflected in a firm’s financial statements, including balance sheets and cash flow statements. Examines key accounting methods that impact a company’s financial statements and how they are used by shareholders, creditors, employees and customers to make credit decisions and/or value a firm’s equity securities.
TGM 204 Princip of Mrktng/Global Orgs

Explores the ways in which global marketing strategies reflect a deep understanding of markets and create valuable offerings for customers globally. Broadly speaking, marketing strategy making is comprised of segmentation, targeting and positioning. Segmentation is the process by which we segregate a relatively heterogeneous mass market into relatively homogeneous market segments. Targeting is the process by which we analyze opportunities and identify those customers where our business has the greatest prospects for success. Positioning is the process of assembling the “total offering” (product, service, distribution and price) and communicating the benefits of this “total offering” to the members of our target market. Challenges students to think critically about global competition. As such, rote learning of terms and concepts is not sufficient to prepare students to manage a business in global markets.

TGM 300 Princip of Finance/Global Orgs

Equips students with the tools necessary to make strategic financing and investment decisions for value creation in a competitive global environment. Topics addressed include financial analysis and projections; working capital management; and investment management (derivation of cash flows, cost of capital, discounted cash flow valuation and capital budgeting decisions).

TGM 494 Special Topics
Spanish for Managers I
Covers topics of immediate or special interest to a faculty member and students.

TGM 494 Special Topics
Spanish for Managers II
Covers topics of immediate or special interest to a faculty member and students.
TGM 494 Special Topics
Chinese for Managers I
Covers topics of immediate or special interest to a faculty member and students.

TGM 494 Special Topics
French for Managers I
Covers topics of immediate or special interest to a faculty member and students.

TGM 494 Special Topics
French for Managers II
Covers topics of immediate or special interest to a faculty member and students.

TGM 505 States & Markets

Global managers operate in an international economy that presents tremendous opportunities as well as risks. Globalization has dramatically expanded opportunities for international trade, investment and economic development. At the same time, global managers have to deal with the prospect of trade wars, international financial crises and intensified competition over markets and resources. In addition, international organizations such as the International Monetary Fund, World Trade Organization and World Bank Group have a direct impact on international business operations. Develops analytical tools for understanding the rapidly changing and dynamic global political. With these tools, managers are better prepared to anticipate the risks and take advantage of the opportunities they will encounter in the global economy.
TGM 507 Glbl Organizational Consulting

Consulting course provides an overview of the field of consulting and the role of the management consultant. Familiarizes students with the tools and techniques used during a consulting engagement, including project entry, problem definition, intervention planning, data collection, problem solving, alternative generation, feedback, project exit, client relations skills and project management. Requires students to work in project teams to solve business problems in organizations through the application and expansion of technical skills acquired in other classes.

TGM 508 RBE I: Emerging Mkts

As an extension of states and markets in a global economy, provides an analysis of contextual factors that influence dynamic business environments by employing frameworks that integrate political, economic, geographic, and sociocultural factors in a specific regional area.

TGM 509 RBE II: Developed Economies

Provides future global managers with the analytical tools and frameworks for understanding the European business environment. Also provides a broad understanding of the region in order to be successful therein. Deals with the political, social and economic context within which business activities take place in Europe. In order to succeed as managers in the environment, requires knowledge of political, social, cultural, economic, business and regional economic factors, both across the European landscape and within individual countries.
TGM 511 Global Financial Accounting

Accrual accounting concepts, teaching students how to prepare and understand the content of traditional financial statements. Topics include the recognition and measurement of accounting events; preparation and analysis of income statements, balance sheets and statements of cash flows; and the measurement of revenue, expenses, assets, liabilities and stockholders’ equity, including both U.S. and international principles.

TGM 512 Managerial DecisionMkngGlblEnv

Covers the development and use of managerial accounting information, including both financial and nonfinancial performance measures, in making long- and short-run decisions. Topics include cost-profit-volume analysis, cost behavior, relevant costs, job-order and processes costing, activity-based cost management and the analysis of customer profitability.

TGM 512 Managerial DecisionMkngGlblEnv

Teach students how to use accounting information to help organizations succeed in a rapidly changing global environment. Introduce a variety of tools and techniques such as cost allocation, cost-volume-profit, relevant costing, performance evaluation, budgeting, transfer pricing, customer profitability analysis, nonfinancial performance evaluation, and/or sustainability reporting. By applying these tools and techniques to different types of global organizations, students learn how to use accounting information to make effective decisions. Throughout the course, emphasizes integrating other subject areas such as strategy, data analytics, entrepreneurship, corporate social responsibility, and/or behavioral economics into the decision analysis process.
TGM 521 Mnging for Glbl Value Creation

Equips students with the tools necessary to make strategic financing and investment decisions for value creation in a competitive global environment. Topics addressed include financial analysis and projections; working capital management and investment management (derivation of cash flows, cost of capital, discounted cash flow valuation, and capital budgeting decisions).

TGM 522 Global Financial Decisions

Covers modern practices of financial decision-making and management in a market-oriented multinational framework. Topics addressed include capital structure decisions, risk management involving financial derivatives and currency hedging, cross-border investment decisions, subsidiary management, and cross-border merger and acquisitions.

TGM 530 Big Data in the GbIbl Econ

Creating a sustainable IT-dependent competitive advantage is a major goal for forward-thinking multinational organizations. Understands how multinational organizations make strategic use of Big Data to gain a competitive advantage in the global economy. Covers the important technological aspects of big data from a managerial viewpoint. Delves into the understanding of global data and how this data must be standardized to account for differences in collection methods, legal constraints and cultural interpretation to create a reliable platform for evaluation.
TGM 531 Multinational Value Chain

Exposes students to the strategies and challenges associated with moving goods, services, information and associated payments across complex, globally dispersed value chains to end customers. Topics include value-chain structures, supplier partnerships, cross-cultural issues, technology, data networks, global logistics, risk management and value-chain mapping. A field project provides students with an opportunity to work in teams applying the course concepts to increase customer value in a real value chain.

TGM 532 Leading Global Projects

Provides an overview of the global context of project leadership. Global project leaders work at the intersection of project management, leadership in a project context and cross-cultural effectiveness. Exposes students to key project leadership approaches including stakeholder management, methods for increasing inclusion on global project teams and building high-performing global project teams. Uses case studies, a simulation, several exercises and interactive discussions.

TGM 540 ManagingPeople:GlobalPersptv

Explores the mix of organizational practices and people that can be the basis of sustainable competitive advantage in the contemporary global business environment. Topics covered include cross-cultural issues in managing people, traditional and emerging models of organizations, organizational culture, leadership, employee skills and motivation, reward systems and change management.
TGM 541 CompettveStrategyGlblPerspecti

Focuses on choices that impact the performance of the entire organization. Examines central questions: Why are some industries and firms more profitable than others? How do firms create competitive advantage? How does the choice of strategy drive organizational performance? How do firms manage scarce resources in the pursuit of strategic objectives? How do firms create unique and sustainable industry positions?

TGM 546 Regional Industrial Analysis

Builds on concepts introduced in competitive strategy, global strategy and regional business environment. Focuses on the analysis of the strategies adopted by competing players and their impact on the global strategies pursued by the parent organization in the context of regional industry dynamics. Covers a spectrum of topics ranging from industry cluster formation, country-specific advantage, industry versus industry ecosystem analysis, the government's role in industry and regional development including national innovation systems, demand and supply chains in regions, and emerging market challengers. Applies multiple decision-making tools and frameworks to understand the Information and Communications Technology (ICT) industry in Asia Pacific—the fastest growing region in the world. Tools and frameworks learned in this course are applicable to other regions and other industries.

TGM 547 LeadngChg&Transfrmtn GlobalEnv

Increases understanding of the nature of organizational change (through conceptual frameworks, readings and discussions). Specifies skills needed for managing change. Enhances sensitivity to the contribution and consequences of the human element as related to change. Helps student's own capacity to “thrive on change.”
TGM 548 Global Strategy

Focuses on how global firms create value. Covers topics ranging from country-specific competitive advantage and the notion of distance to alternative global strategy archetypes and sources of competitive advantage for emerging market multinationals. The approach applies multiple decision-making tools and frameworks to untangle the complexities of managing in a global corporation.

TGM 549 Global Leadership

Explores the concept of effective leadership within and across a variety of organizations and global contexts. Definitions of “leadership” and strategies for becoming an accomplished leader abound. Rather than attempt to narrowly focus our attention on definitions, leadership styles, and supposedly “definitive” theories of leadership, focuses on the demands of and competencies associated with excellent leadership. Most importantly, examines how leaders sense the need for and then manage organizational change. Given the increasingly complex world we live in and the ongoing and rapid rate of change, change management has become one of the most critical of leadership skills.

TGM 551 Global Marketing Strategy

Covers the major concepts involved in creating and sustaining customer value, analyzing the firm’s macro environment, choosing whether or not to enter a foreign market, how to evaluate different foreign markets, the best methods for entering different markets, the market research design process, understanding consumer and B2B customer behavior, and ethical issues encountered in global marketing.
TGM 552 Global Marketing Management

Covers the functional aspects of marketing including decisions relating to segmentation, targeting, branding, product development, pricing, distribution and advertising/promotion. Students integrate their knowledge of these topics through the creation of an international marketing plan based on a product or service and in a country approved by the instructor.

TGM 579 Communicating Global Context

In a dynamic and interactive format, presents a framework of models and skills for building communication performance in competitive global business settings. Assists in implementing strategies for mastering interpersonal encounters, including conflict resolution, in multicultural environments. Not only examines theories of communication, but places students in experiential situations in which they develop valuable global management skills. Using cases, self-assessment questionnaires, multicultural team exercises and simulations, equips the global manager with the ability to solve problems and take advantage of opportunities in a multicultural world.

TGM 581 Negotiating in Global Context

Provide students with knowledge, skills, insights and experience necessary to be a competent negotiator. Covers theories of cross-cultural negotiation and how these impact business interactions. Students gain insight into personal and cultural underpinnings that influences cognitive, affective and negotiation behavioral processes. Expands skills in achieving communication and negotiating competence through the understanding and practice of increased appropriateness, flexibility and adaptability.
TGM 585 Corp Social Resp Glbl Context

Provides knowledge, skills, insights and experience necessary to be a competent negotiator. Covers theories of cross-cultural negotiation and how these impact business interactions. Students gain insight into personal and cultural underpinnings that influences cognitive, affective and negotiation behavioral processes. Expands skills in achieving communication and negotiating competence through the understanding and practice of increased appropriateness, flexibility and adaptability. Corporate Social Responsibility (CSR) has become essential for corporations seeking to succeed in an intensely competitive global economy. Provides an in-depth understanding of what CSR is, how to apply it effectively in an international context and how to manage it well. Using a case-based approach, focuses on actual experiences of corporations that have used CSR strategies successfully--and unsuccessfully--to draw practical lessons for international managers. Incorporates several guest lectures from execu

TGM 596 Thunderbird Experiencial Pract

Capstone course offering students an opportunity to apply the full range of professional skills they have acquired during graduate business and management studies. Consists of participation in a consulting project for a client system in an emerging market country, including Central America, Latin America, the Middle East, Africa, central and eastern Europe, and the whole of Asia apart from Hong Kong, Japan, Singapore, Australia and New Zealand. Serves all sectors: public/governmental, private and NGO/nonprofit.

TGM 597 TBird Integrative Experience

Provides a capstone experience that integrates content from several business areas including strategy, finance, cross-cultural communication, supply chains, leadership, operations and accounting. May take the form of an integrative business computer simulation or a seminar drawing on faculty from a variety of business areas to highlight key issues in those areas.
ASU 101 The ASU Experience

Students will learn about ASU’s mission as the New American University, the importance and benefits of an entrepreneurial approach to problem solving, solutions to sustainability challenges, and the importance of social embeddedness. Additionally, through various course discussions and assignments, students will examine the concept of academic integrity and its potential impact on their future, gain awareness of the value of engaging in research activities, and learn about taking an interdisciplinary perspective.

UNI 120 Academic Success

Assists students in creating strategies for success in their academic lives. Students explore personal and academic strengths and barriers that impact success, identify and utilize university resources available to support success at ASU, acquire and enhance academic skills necessary for success in the university, and discover ways to stay on course to meet academic goals.

UNI 150 Major and Career Exploration

Concepts and skills in the process of selecting a major: self-assessment, research, interviewing, and decision making. Exploration of ASU opportunities and investigation of career options.

UNI 220 Academic Refresher

Assists students who find themselves in academic trouble (failed courses, academic probations, disqualification). Students explore the barriers that may be keeping them from reaching their academic goals and acquire tools to overcome those challenges. Topics include self management, self assessment, lifelong learning, and interdependence.
UNI 220 Mindset Connections

Explores how students’ strengths and barriers influence success (i.e., how mindset, perception and beliefs influence behavior) and discovers methods for staying focused and meeting academic, personal and professional goals. Students acquire and enhance emotional intelligence skills for success in and out of the classroom.

UNI 250 Choosing a Major

Advanced, one-hour career development course helps students make a thoughtful selection of major and consider the career direction that fits best for them. Students complete advanced assessments of interests, personality, and values; investigate relevant majors and careers, including connecting with working professionals; learn effective decision-making strategies; identify barriers and resources; and make connections to new major department.

UNI 270 Career Direction for Success

Actively engages students in their educational and career-planning process by exploring factors that influence personal decision making and planning for the future. Students examine their strengths and personal narrative, identify decision making factors, research career development and a particular career, and develop teamwork skills for the workplace.

UNI 294 Special Topics

Covers topics of immediate or special interest to a faculty member and students.

UNI 294 Special Topics
Mindset Connections
Covers topics of immediate or special interest to a faculty member and students.
UNI 294 Special Topics
Mastering Mindsets
Covers topics of immediate or special interest to a faculty member and students.

UNI 394 Special Topics
Focusing on Academics
Covers topics of immediate or special interest to a faculty member and students.

ACC 231 Uses of Accounting Info I
Introduces the uses of accounting information focusing on the evolution of the business cycle and how accounting information is used for internal and external purposes.

ACC 241 Uses of Accounting Info II
Introduces the uses of accounting information focusing on the evolution of the business cycle and how accounting information is used for internal and external purposes.

ACC 310 Intermed Acctg for Corp Accts

ACC 320 Mgmt Acc for Corp Accts I
Covers internal reporting systems for planning, control, and decision making. Deals with conceptually and computationally understanding the various accounting, economic and/or business models, frameworks and methods in order to be more knowledgeable and literate in these areas while building overall stronger decision-making skills.
ACC 354 Gov, Risk, Comp Int Con Ethics

Equips students to understand, evaluate and participate in corporate governance. Surveys best practices in corporate governance including internal controls, enterprise risk management (ERM), fraud deterrence, and ethical organizational culture. Emphasizes the Committee of Sponsoring Organizations (COSO) framework. Provides the necessary background and understanding of key internal control and ERM concepts and tools for corporate accountants.

ACC 382 Accting & Financial Analysis

Introduces nonbusiness majors to financial accounting concepts related to operating, financing, investing, and ethical decisions.

ACC 410 Fin Statement Analysis

Focuses on core knowledge and skills essential to financial statement analysis. Topics covered include strategic ratio analysis, cash flow analysis, forecasting, pro-forma financial statements and firm valuation.

ACC 420 Mgmt Acc for Corp Accts II

Covers the higher-level managerial accounting topics and uses of accounting data to assist corporate accountants in their plans and decisions regarding complex resource allocation, organizational control, and performance evaluation issues.

ACC 454 Tax for Corp Accountants

Integrates tax compliance, tax planning, accounting, economics and finance. Examines current tax rules while developing the ability to think about taxes in a way that is not specific to the current federal system.
ACC 501 Basics of Financial Reporting

Covers contemporary financial accounting and reporting systems; emphasizes the interpretation and evaluation of a company’s external financial reports. Designed for students with limited business experience and without an undergraduate business degree.

ACC 502 Finan Performance Reporting

Contemporary financial accounting and reporting systems; emphasizes the interpretation and evaluation of a company’s external financial reports.

ACC 502 Financial Accounting

Contemporary financial accounting and reporting systems; emphasizes the interpretation and evaluation of a company’s external financial reports.

ACC 503 Managerial Accounting

Managerial accounting concepts and procedures for internal reporting applied to the decision making activities of the professional managers.

ACC 504 Basics of Managerial Acct

Covers managerial accounting concepts and procedures for internal reporting applied to the decision-making activities of the professional managers. Designed for students with limited business experience and without an undergraduate business degree.
AGB 250 Resource Allocation

Beginning class that focuses on the specific microeconomic principles that are needed to understand the food industry, agricultural production, food safety and production of renewable natural resources. Focuses extensively on the detailed information that students need to understand the nuances of specific issues associated with the food, agriculture and renewable natural resources, including a keen understanding of monopolistic competition, the economic rationale for governmental regulation, effects of property rights on renewable resources, agricultural price supports, prospect theory and behavioral economics.

AGB 294 Special Topics
Applied Microeconomics
Covers topics of immediate or special interest to a faculty member and students.

AGB 294 Special Topics
Economics of Resource Allocati
Covers topics of immediate or special interest to a faculty member and students.

AGB 302 International Mgt and Agribus

Management and agribusiness issues in the transition of developing countries from subsistence to global operations and competition.

AGB 420 Food Advertising and Promotion

Focuses on advertising and promotional strategies in the food industry, with an emphasis on the Consumer Packaged Goods (CPG) industry. Recommended proficiency in the computer applications used in this class: word processing, spreadsheets, graphics, presentations, and the Internet.
AGB 420 Food Advertising and Promotion

Focuses on advertising and promotional strategies in the food industry, with emphasis on consumer packaged goods.

AGB 425 Food Supply Networks

Methods, resources and information used to store and deliver food products in a global market. Supplier and customer perspectives help students understand what it takes to develop competitive advantage through distribution and logistics in a global marketplace. Emphasizes food supply network complexities and system design that helps develop critical thinking skills students will be able to use in any area of business. Practicum section with field trips to major food business firms, governmental organizations and industry associations located in metro Phoenix and Nogales area.

AGB 425 Food Supply Networks

Information, methods and resources used in the management of global food supply networks. Emphasizes systems of food marketing and distribution from the farm to the consumer.

AGB 435 Commodity Future and Opt Mkts

Provides an understanding of how to use futures and options markets in a risk management and pricing context, especially as it pertains to the marketing and procurement of agricultural commodities by grain and livestock merchandisers, food manufacturers, and producers/distributors/consumers of natural resources.

AGB 445 Food Retailing

Food retail management. Discusses trends, problems, and functions of food retail managers within various retail institutions.
AGB 445 Food Retailing

Critical examination of trends, problems and management functions of food retail managers across various retail institutions. Emphasizes the biological nature of food products and the dietary preferences of consumers.

AGB 456 Food Prod Innovation and Dev

Students learn the food product development process and how it interfaces with food technology and packaging concepts. Emphasizes the team approach, which is prevalent in the food industry.

AGB 456 Food Prod Innovation and Dev

The food product development process and how it interfaces with food technology and packaging concepts. Emphasizes the team approach, which is prevalent in the food industry.

AGB 481 Microecon Analysis of Food Mkt

By applying the basic concepts of microeconomics to real-world data, this course allows the student to not only gain a book-oriented understanding of how businesses in the food industry behave, but practical, hands-on experience that lasts far beyond the classroom.

AGB 481 Strategic Pricing in Food Mkts

By applying the basic concepts of microeconomics to real-world data, this course allows the student to not only gain a book-oriented understanding of how businesses in the food industry behave, but practical, hands-on experience that lasts far beyond the classroom.

BUA 380 Small Business Leadership

Develops leadership skills needed to form, lead, and operate a small business. Emphasizes creating a vision, research, and problem solving.
BUA 381 Small Business Acct & Finance

Accounting and finance skills needed by small business owners to acquire, allocate, and track monetary resources and evaluate performance.

BUA 383 Small Bus Working Relationship

Addresses communication and the people in a business--clients, employees, suppliers, competitors, governments, family, and self development.

BUA 384 Small Bus Operations & Plnning

Planning and executing plans--the what, when, where, how, and who from product/service/project idea to pay back or completion.

BUS 384 Business Operations & Planning

Planning and executing plans--the what, when, where, how, and who from product/service/project idea to pay back or completion.

BUS 384 Business Operations & Planning

Planning and executing plans--the what, when, where, how, and who from product/service/project idea to pay back or completion.

CIS 105 Computer Appls&Info Technology

Introduces business information systems from a business intelligence perspective and the uses of application software with emphasis on database and spreadsheet packages for efficient and effective problem solving.
CIS 235 Intro to Information Systems

Survey course introducing the competitive and strategic uses of information systems, how information systems are transforming organizations and their management, and the issues, difficulties, and opportunities facing the technology professional and business manager today.

CIS 300 Web Design and Development

Focuses on Web site development, including target audience, image presentation, page/content topic organization, site navigational functionality, implementation needs, and future needs. Web site design and development practice using business software products.

CIS 308 Advanced Excel in Business

Covers advanced Excel skills using an applied focus on different types of decisions one may analyze using spreadsheet capabilities; graphs and charts to communicate complex analytics; pivot tables to slice and dice data for reporting.

CIS 309 Business Process Management

Flow charting, swimlane diagramming, process simulation using modern tool suites. Teaches the types of process evaluation decision analytics most commonly used and covers applied process analysis in a variety of contexts.

CIS 310 Business Data Visualization

The design of insightful business data visualizations and dashboards to improve business decision making. Applies advanced data visualization techniques to make sense of temporal, geospatial, topical and network business data while also making it easier to digest and utilize for business users.
CIS 311 Business Project Management

Overview of project management emphasizing the fundamentals and analytics that can support project decision making. Covers project planning, resource and disruption management and problem resolution skills. Leverages widely available project management computer tools.

CIS 312 Bus Mobile Commerce & Monetize

Teaches students the entire mobile commerce process starting with recognizing what it is, what it does, how to build it and the business value of it. Familiarizes students with software development platforms and ecosystems, strategies for development and deployment, and monetization strategies.

CIS 315 Intro Business Data Analytics

Overview of analytics in the business context; concepts of strategic and operational analytics; overview of concepts like dimensional modeling, the Model Lifecycle, data mining, big data, KPIs and metrics, ERP and analytics, in-database/memory analytics; real-time analytics and data stream analysis.

CIS 325 Programming for Bus Analytics

Manipulating, processing, cleaning and crunching data with a focus on utilizing scripting and programming tools toward business applications. Also a practical, modern introduction to extraction, transformation and loading of enterprise data for business applications.

CIS 340 Bus Info Systems Development I

Systems Development Life Cycle (SDLC) tools, techniques, and methodologies used to plan and analyze the needs of modern business information system development.
CIS 345 Bus Info Systems Development II

Provides a clear understanding of the Systems Development Life Cycle (SDLC) tools, techniques, and methodologies used to design, implement, and support modern business information systems development.

CIS 355 Bus DataWarehouse Data Modeling

SQL, stored procedures and data warehouse architectures; data warehouse requirements definition, design and analysis; overview of the steps in building information-enabled business models; role of data warehousing in data mining and analytics.

CIS 365 Business Database Systems

Focuses on business database and data warehousing systems, development and management. Topics include capturing business requirements using data modeling, SQL, data security, operational and analytical data stores and data integrity.

CIS 375 Business Data Mining

Building predictive analytics (e.g., SEMMA, KDD); exposure to logistic regression, machine learning and decision tree methods; Understanding lift factors, ROC curves; hands-on use of mining software; business case studies.

CIS 401 Cyber Risk Management

Covers the activities, decisions, risks and controls associated with enterprise business processes. Specific focus on the activities in the sales-to-cash (revenue cycle) and purchase-to-pay (expenditure cycle) processes. Students understand how IT enables performing those processes more efficiently and effectively. In addition to identifying internal controls necessary for accurate, complete performance of processes, also covers the fundamentals of cybersecurity.
CIS 405 Business Intelligence

Business intelligence (BI) is a term describing a broad category of applications, technologies, architectures and processes for gathering, storing, accessing and analyzing data to provide business users with timely information to enable better insights into project and process management and evidence-based decision making. BI is based on techniques for data decision capture, cleansing, validation, warehousing and analytics to help decision makers improve decision outcomes. Provides a capstone understanding of the concepts of managing data resources and the development of business intelligence capabilities using data visualization, data warehousing, data mining, online analytical processing decision support systems and other advanced BI topics.

CIS 415 Big Data in Business

Text and stream mining, visualizations for big data, Hadoop, cloud-based solutions, fundamentals of big data programming, social media and big data, NoSQL, software tool support for visualizations; GIS, business case studies.

CIS 415 Big Data Analytics in Business

Applications of machine learning, data and text mining for big data, Hadoop, cloud-based solutions, fundamentals of big data programming, social media and big data, NoSQL, GIS, business case studies.

CIS 425 Enterprise Web Technologies

Modern Web application technologies for the enterprise. Covers development of Web applications for handling business transactions and strategies including the use of cloud-based applications.
CIS 430 Mobile Platforms for Business

Mobile application development for the enterprise to address mobile transactions and consumer engagement. Covers business frameworks, app development; and management of devices, applications and services in today's multi-platform environment.

CIS 440 Capstone in Information System

Offers a capstone experience integrating concepts from the business as well as the technology curricula. Students analyze, propose and develop a full technology solution for a business enterprise.

CIS 450 Enterprise Analytics

Model lifecycle analysis, analytics governance, aligning governance, aligning firm and analytics strategy, big data security issues, enterprise search, applied projects.

ECN 211 Macroeconomic Principles

Basic macroeconomic analysis. Economic institutions and factors determining income levels, price levels, and employment levels.

ECN 212 Microeconomic Principles

Basic microeconomic analysis. Theory of exchange and production, including the theory of the firm.

ECN 221 Business Statistics


ECN 221 Business Statistics

Introduces methods of statistical description, inference, probability, sampling, hypothesis testing and regression analysis with focus on business application.
ECN 306 Survey International Economics

Surveys international trade issues, commercial policy, trade theory, customs unions, and international monetary topics.

ECN 312 Intermed Microcon Theory

Role of the price system in organizing economic activity under varying degrees of competition.

ECN 312 Intermed Microcon Theory

Expands on models covered in principles. Models consumer and producer choice, market structure and welfare.

ECN 313 Intermed Macroeconomic Theory

Determinants of aggregate levels of employment, output, and income of an economy.

ECN 313 Intermed Macroeconomic Theory

Expands on topics covered in principles. Emphasizes models of growth, employment, economic fluctuations, monetary and fiscal policy.

ECN 315 Money & Banking

Functions of money. Monetary systems, credit functions, banking practices, and central banking policy.

ECN 360 Economic Development

Theories of economic growth and development. Role of capital formation, technological innovation, population, and resource development in economic growth.
ECN 410 Applied Regression Analysis

Applies regression techniques to forecasting in business and institutional environments.

ECN 421 Labor Economics

Labor supply and demand, unemployment, determinants of wages, earnings inequality, labor unions and the structure of labor contracts.

ECN 438 Internat'l Monetary Economics


ECN 441 Public Economics

Public goods, externalities, voting models, public expenditures, taxation, and budget formation with emphasis on the federal government.

ECN 453 Industrial Org/Compete Policy


ECN 475 Capstone in Economics

Capstone course integrating several areas of economics.

ECN 502 Managerial Economics

Applies microeconomic analysis to managerial decision making in areas of demand, production, cost, and pricing. Evaluates competitive strategies.
ECN 504 Basics of Managerial Economics

Applies microeconomic analysis to managerial decision making in areas of demand, production, cost and pricing. Evaluates competitive strategies. Designed for students with limited business experience and without an undergraduate business degree.

ENT 360 Entrepreneur & Value Creation

In-depth application of entrepreneurial concepts including opportunity recognition, value creation and new business management. Identifies the needs of a market and problem solves to meet those needs through innovation. Covers common mistakes made in the new venture process and how to work to avoid these mistakes.

FIN 300 Fundamentals of Finance

Theory and problems in financial management of business enterprises.

FIN 380 Personal Financial Management

Dynamic analysis of personal financial planning, including time value of money, stock and bond investment, and retirement and estate planning.

FIN 502 Managerial Finance

Develops analytical techniques and financial theories used to make optimal decisions in a corporate setting.

FIN 525 Investment Strategies

Presents the fundamental principles of risk and return, portfolio diversification, asset allocation, efficient markets, active portfolio management, portfolio evaluation. Reviews selected alternative investment strategies such as hedge fund investments.
LES 305 Legal/Ethical/Reg Iss in Bus

Legal theories, ethical issues, and regulatory climate affecting business policies and decisions.

LES 305 Business Law&Ethics for Mgrs

Legal theories, ethical issues, and regulatory climate affecting business policies and decisions.

LES 582 Ethical Issues for Managers

Studies ethical decisions; the role of business in society.

MGT 300 Org & Mgt Leadership

Analyzes strategic, behavioral, and human resource management perspectives, including principles of strategic management and leadership of human resources.

MGT 302 Principles Intl Business

Multidisciplinary analysis of international economic and financial environment. Operations of multinational firms and their interaction with home and host societies.

MGT 320 Organizational Behavior

Management processes, fundamentals of business-level strategy, individual difference issues, motivation and leadership of people in organizations.

MGT 360 Entrepreneur & Value Creation

In-depth application of entrepreneurial concepts including opportunity recognition, value creation and new business management. Identifies the needs of a market and problem solves to meet those needs through innovation. Covers common mistakes made in the new venture process and how to work to avoid these mistakes.
MGT 380 Management & Strategy Nonmajors

Introduces the functions and applications of management in organizations, including controlling, decision making, leadership, motivation, planning, and social responsibility. Not open to business majors.

MGT 400 Cross-Cultural Management

Cultural role in international business relations; applied principles of cross-cultural communications, negotiations, and management; regional approaches to business relations.

MGT 411 Leading Organizations

Comprehensive overview of leadership in organizations. Provides students with understanding of leadership research and its applications to global organizations and the development of leaders.

MGT 420 Human Resource Management

Development of skills and knowledge to lead associates effectively: hiring, developing, evaluating, retaining, and rewarding employees. Preparation for leadership roles.

MGT 430 Negotiations

Improves student’s understanding of and skills in the art of negotiation. For most managers, negotiation is a significant aspect of their day-to-day jobs, not to mention a major element of everyday life. Give students experience in bargaining and negotiation, as well as provide a foundation in the essential knowledge bases crucial to being an effective negotiator. Emphasizes experiential learning--students spend most of their time participating in exercises and negotiation simulations, as well as discussing negotiation-based cases involving issues that often arise in the workplace. Provides a fundamental understanding of what it takes to be an effective negotiator, as well as several experiences to draw upon in future negotiation situations.
MGT 501 Basics of Org Theory/Behavior

Allows students to understand the human side of organizations through management theories and applications. Develops knowledge and skills for successful management of self and others. Designed for students with limited business experience and without an undergraduate business degree.

MGT 502 Org Theory/Behavior

Understands human side of organizations through management theories and applications. Develops knowledge and skills for successful management of self and others.

MGT 502 Organizational Behavior

Understands human side of organizations through management theories and applications. Develops knowledge and skills for successful management of self and others.

MGT 540 Entrepreneurship

Capstone case-based course covering all aspects of starting a business: opportunity identification, evaluation, concept development, identifying required resources, acquiring those resources, launching the entity, managing growth, and ultimately, harvesting the enterprise. Revolves around a series of cases, readings and class discussions designed to build a comfort level with understanding and solving problems faced every day, in real life, by a broad spectrum of entrepreneurs at various phases of venture development. Significant emphasis on understanding the valuation and financing of entrepreneurial ventures interwoven through discussions.

MGT 565 Business and Public Policy

Takes a managerial perspective to examine the interface between businesses and their external political environments. Potential changes in public policy can affect current operations and future opportunities. Examines how managers can anticipate and affect the formation, modification and enforcement of public policy in various institutional environments.
MGT 589 Strategic Management
Formulation of strategy and policy in the organization, emphasizing the integration of decisions in the functional areas.

MGT 591 Seminar
Prctcm: Market Practice Europe
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Prctcm: European Banking & Finance
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Prctcm: Cross Cultural Management Europe
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Prctcm: Doing Business in China
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Prctcm: Business Environment Austria & Czech
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Prctcm: Business Environment France & Spain
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Doing Business in China
A small class emphasizing discussion, presentations by students, and written research papers.
MGT 591 Seminar

A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Intel. Elective
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 591 Seminar
Pro Develpmnt & Engagmnt Prgrm
A small class emphasizing discussion, presentations by students, and written research papers.

MGT 594 Conference and Workshop
Doing Business in China
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

MGT 594 Conference and Workshop
Business Environ France Spain
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

MGT 594 Conference and Workshop
Bus&Environ:Austria&CzechRepub
Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.
MGT 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

MKT 300 Marketing & Bus Performance

The dynamic role of marketing within society and organizations. Emphasizes frameworks and analytical tools that ensure customer focus and drive organizational performance.

MKT 302 Applied Mrktng Mgmt & Ldrship

Market planning, execution, and assessment. Emphasizes decision and communication skills related to market opportunity analyses and marketing program development as a core business function.

MKT 352 Marketing Research

Knowledge and skills to make intelligent decisions in the design, evaluation and application of marketing research and market data.

MKT 365 Advertising Management

Advertising as a communications tool in marketing and business. Consideration of market segmentation and positioning, creative strategy, media management, and metrics of effectiveness.
MKT 365 Advertising & Beyond

Advertising and brand development as means to marketing and business success. Consideration of market research, segmentation, objective, creative strategy, digital and integrated media tactics, media management, and metrics of effectiveness.

MKT 390 Essentials of Marketing

Focuses on the nature and processes of marketing with an emphasis on practical application. Not open to business majors.

MKT 391 Essentials of Selling

Focuses on the selling process and its practical applications within consumer and business markets. Not open to business majors.

MKT 396 Essentials of Services Mkt

Focuses on challenges of managing service brands and delivering quality service to customers across industry sectors. Emphasizes skills and knowledge needed to implement quality service and service strategies, frameworks for customer-focused management, and how to increase customer satisfaction and retention through service strategies.

MKT 397 Essentials of Global Marketing

Introduces the concepts of globalization in markets and gives an appreciation and understanding of the differences between marketing in the student's home country and marketing globally. The rapid adoption of technology has fundamentally changed the dynamics of marketing and created new competitive paradigms that must be understood for firms to be successful.

MKT 402 Consumer Behavior

Applies behavioral concepts in the analysis of consumer behavior and the use of behavioral analysis in marketing strategy formulation.
MKT 420 Retail Management

The role of marketing in retailing and retail performance. Challenges and processes of retail management across various institutions.

MKT 425 Global Marketing Management

Analyzes marketing strategies and practices developed by firms to compete in global markets and adapt to changing international environments.

MKT 442 Services Marketing Strategy

Concepts, skills, and strategies for addressing the imperative marketing challenges and opportunities involving service.

MKT 452 Bus-to-Bus Marketing Strategy

Concepts, skills, and strategies for performing competitively in the business market where organizations rather than households are the customers.

MKT 462 Competitive Marketing Strategy

Strategy formulation and decision making by the marketing executive. Integrates marketing programs and considers competitive marketing issues.

MKT 494 Special Topics
Crafting Brand Experience
Covers topics of immediate or special interest to a faculty member and students.

MKT 494 Special Topics
International Brands
Covers topics of immediate or special interest to a faculty member and students.
MKT 502 Marketing Management

Managing the marketing function; market and environmental analysis; marketing planning, strategy, and control concepts. Development and management of marketing programs.

MKT 535 Global Marketing Strategy

Introduces the concepts of globalization in markets and gives an appreciation and understanding of the differences between marketing in a home country and marketing globally.

MKT 550 Product and Service Innovation

Intimately familiarizes students with the front end of the new product design process and provides concrete tools for determining strategies for developing new products based on input from customers.

SCM 300 Global Supply Operations

Resources and information to create and deliver products globally. Interfirm systems and industry supply chains. Customer, producer, and employee perspectives.

SCM 300 Global Supply Operations

Explores modern global integrated supply chain management. Covers traditional supply chain topics such as procurement, inventory management, operations, quality management, logistics and transportation. Also discusses issues related to sustainability, humanitarian logistics, ethical business practices and supply chain analytics in the context of evolving supply chains around the world. Students discover how business processes, performance metrics and modern supply chain IT tools aid in the management and growth of effective and efficient supply chains.

SCM 314 Analytics for Logistics

Focuses on practical tools for real-world decision making.
SCM 315 Business Decision Models

Introduces quantitative tools used to aid management decision making.

SCM 344 Applied Logistics Management

Presents a synthesis of the principles in logistics (and supply chain) activities emphasizing the operation and integration of activities such as transportation, inventory, warehousing, facility location, customer service, packaging and materials handling.

SCM 345 Logistics Management

Explores the many areas of supply chain management; in each case the logistics view is described and understood. Emphasizes movement of product/material, information and money in each section.

SCM 354 Procurement of Services

Management of the supply function for logistics-based organizations. Allows students to better understand the nature of procuring a service, contracting that service and establishing appropriate performance metrics.

SCM 355 Supply Management

Management of the supply function, including organization, procedures, supplier selection, quality, inventory decisions, and price determination.
SCM 385 Business & Sustainability I

Focuses on sustainability practices at the organizational level. Describes how business and consumer products impact our physical environment and the communities that they interact with, and identifies ways to measure and improve the sustainability of products and the supply chains that deliver them. Students will examine organizational practices with regard to sustainability, evaluate the impact of products and services on the environment, and explore a business case for sustainability.

SCM 385 Business & Sustainability I

First of two related courses; provides a general overview of sustainability topics that are important to business today with a focus on consumer products and services and the social and environmental impact of the organizations that provide them.

SCM 432 Control Sys-Supply Chain Mgmt

At the core of all supply chain management processes and essential to the determination and direction of the flow of resources needed to produce goods and services. Uses Microsoft Excel for supporting analysis. Includes processes and methods to forecast, manage inventory, plan needed capacity, determine resources needed for production, determine priority and sequencing of activities, perform master scheduling and material requirements planning.

SCM 440 Quality Management/Measurement

Quality management and measurement, relationships with suppliers and customers, quality awards, certifications, programs, tools for process improvement and cost analyses.
SCM 440 Quality Management/Measurement

Provides a broad introduction to quality management frameworks and tools, with an emphasis on supply chain and operations management issues. Introduces modern quality management approaches including Total Quality Management, Lean and Six Sigma. Students learn how to define quality for a product or service, develop appropriate measurement systems, and apply statistical and systems thinking to control and improve the underlying processes. Covers quality awards and performance excellence programs and quality management systems such as the ISO 9000 family of standards.

SCM 445 Advanced Logistics Management

Logistics processes account for approximately 10% of U.S. GDP; therefore, the efficient and effective execution of these processes is critical to supply chain managers in corporations, government entities and nonprofit organizations. Includes an overview of the processes involved, a survey of the institutions and players in the processes, and the analytical tools to evaluate their efficiency and effectiveness.

SCM 463 Global Supply Chain Management

Supply chain activities in international business with special emphasis on management of transportation, global sourcing, customs issues, and facility location in a global environment.
SCM 463 Global Supply Chain Management

With increased globalization and offshore sourcing, global supply chain management is becoming an important issue for many businesses. Like traditional supply chain management, the underlying factors behind the trend are reducing the costs of procurement and decreasing the risks related to purchasing activities. The big difference is that global supply chain management involves a company’s worldwide interests and suppliers rather than simply a local or national orientation. Enables students to appreciate the challenges of operating supply chains across international boundaries including how to manage various salient issues including sociocultural, economic, technological and political factors that may shape decisions relating to sourcing and moving goods and services across different geographical boundaries.

SCM 485 Business and Sustainability II

Exposes students to a variety of ideas, concepts, theories, and models concerning sustainable technologies. Students learn to apply a systematic research process in order to assess a technology with potentially positive sustainability attributes; perform hotspot analysis on a technology in order to understand key environmental and social issues; forecast the future of a sustainable technology through application of technology forecasting models; predict how sustainable technologies are likely to get successfully adopted and diffused.

SCM 485 Business and Sustainability II

Second of two related courses focusing on the environmental, social and economic dimensions of sustainable technologies and exposes students to a variety of related concepts and theories. Describes technology hotspot analysis, life cycle assessment and a variety of models of technology forecasting and diffusion.

SCM 502 Operations and Supply Mgmt

Contemporary management issues, including environmental, project, and supply chain management; new product development; quality control; TQM.
SCM 502 Operations & Supply Chain Mgmt

Contemporary management issues, including environmental, project, and supply chain management; new product development; quality control; TQM.

SCM 520 Strategic Procurement

Applies the principles, philosophies, and processes of supply management to the purchasing management process on a global basis and to facilitate the continuous improvement of the purchasing management system.

SCM 521 Supply Management/Negotiation

Selecting, developing, and executing appropriate sourcing strategies and processes.

SCM 581 Mgmt of Technology/Innovation

Technology life cycles, technology forecasting, new product development process, innovation teams, innovation best practices.

SCM 587 Project Management

Planning, scheduling, and controlling of projects in R & D, manufacturing, construction, and services. Project selection, financial considerations, and resource management.

SCM 591 Seminar

Sustainability & Social Respon
A small class emphasizing discussion, presentations by students, and written research papers.

WPC 101 Student Success in Business

Introduces students to resources that help them to succeed in the W. P. Carey School of Business.
WPC 148 Freshman Career Preparation

Building career skills, interests and strengths as a college student.

WPC 248 Sophomore Career Preparation

Research methods and strategic thinking for finding internships.

WPC 300 Prob Solving & Act Anlytics

Provides foundational skills for exploring unstructured business problems. Covers techniques to approach decision making in a systematic manner, enabling students to become more comfortable in handling tasks or projects that are not initially well defined. Methods include exercises in brainstorming and iterating as well as use of more traditional analytical tools (such as spreadsheets and visualization software).

WPC 300 Prob Solving & Act Anlytics

Provides foundational skills for exploring unstructured business problems. Covers techniques to approach decision making in a systematic manner, enabling students to become more comfortable in handling tasks or projects that are not initially well defined. Methods include exercises in brainstorming and iterating as well as use of more traditional analytical tools (such as spreadsheets and visualization software).

WPC 301 Business Forum

Provides professional program business students with information on careers, interviewing, job hunting, and résumé skills. Must be taken in the first semester of the professional program for business students.

WPC 347 Intermediate Career Prep

Skills for transfer students for balancing career preparation with academic success as they transition to the W.P. Carey School of Business.
WPC 348 Junior Career Preparation

Career relationship-building techniques and full-time, job-readiness skills.

WPC 448 Intensive Career Preparation

Intensive application of the job search cycle and processes for students still seeking post-graduation employment.

WPC 470 Business Admin Capstone

Develops a general manager’s or business owner’s perspective on how organizations can create value. Creating long-run value by repeatedly producing goods and services that customers buy at prices that cover the costs of producing them is the key to success for business organizations. The starting point for thinking about how an organization might create value and gain sustainable competitive advantage is analyzing current and future environments to understand threats and opportunities in various institutional settings around the world. Evaluates the impact of institutional settings in different countries and ethical values on decision making. Students learn how to successfully manage relations with key stakeholders including customers, employees, suppliers of capital as well as other component goods and services, and stakeholders from various levels of government in different countries.
WPC 480 Capstone Course

Develops a general manager’s or business owner’s perspective on how organizations can create value. Creating long-run value by repeatedly producing goods and services that customers will buy at prices that cover the costs of producing them is the key to success for business organizations. Analyzing current and future environments to understand threats and opportunities in various institutional settings around the world is the starting point for thinking about how an organization might create value and gain sustainable competitive advantage. Evaluates the impact of institutional settings in different countries and ethical values on decision making. Students learn how to successfully manage relations with key stakeholders including customers, employees, suppliers of capital as well as other component goods and services, and stakeholders from various levels of government in different countries.

WPC 484 Internship
Internship & Applied Academics
Structured practical experience following a contract or plan, supervised by faculty and practitioners.

WPC 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

WPC 494 Special Topics
Leadership Exploration II
Covers topics of immediate or special interest to a faculty member and students.

WPC 501 Statistics for Managers

Fundamentals of statistical analysis to aid management decision making.

WPC 501 Statistics for Business

Fundamentals of statistical analysis to aid management decision making.
WPC 504 Basics of Stats for Managers

Provides conceptual introduction to the field of statistics and its many applications. Designed for students with limited business experience and without an undergraduate business degree.

ASU 101 The ASU Experience

Students will learn about ASU’s mission as the New American University, the importance and benefits of an entrepreneurial approach to problem solving, solutions to sustainability challenges, and the importance of social embeddedness. Additionally, through various course discussions and assignments, students will examine the concept of academic integrity and its potential impact on their future, gain awareness of the value of engaging in research activities, and learn about taking an interdisciplinary perspective.

CPP 194 Special Topics
Veteran Student Success
Covers topics of immediate or special interest to a faculty member and students.

CPP 194 Special Topics
Nina Scholars
Covers topics of immediate or special interest to a faculty member and students.

CPP 350 Community Works

In the first part of the course, students apply the five concepts of interpersonal empathy while completing a 30-hour service project. After completing the service project, students apply the two concepts of social empathy to a social issue in their community. At the conclusion of the course, students know how interpersonal and social empathy can be developed as a skill to help their community within their public service career.
CPP 494 Special Topics
Community Impact Lab
Covers topics of immediate or special interest to a faculty member and students.

CPP 494 Special Topics
Community Works
Covers topics of immediate or special interest to a faculty member and students.

CPP 494 Special Topics
Social Media for Social Good
Covers topics of immediate or special interest to a faculty member and students.

CPP 510 Hazards Governance

Examines how hazards are managed by both community- and national-level policymaking and administrative systems, with a particular focus on understanding how policies and management practices are related to risk reduction and resilience capacity promotion. Explores what governance means in practice and presents existing research, including policy reports, cases studies and quantitative analyses of community-level and national-level hazards management programs and related public policies--and how their integration is relevant to hazards governance.

Emphasizes understanding the nature of public goods production processes, including how inter-sector integration (i.e., between, public, private and nonprofit organizations) and extant community vulnerability profiles matter to the specific risk reduction efforts, and what those same efforts yield in terms of aggregate community resilience outcomes.
CPP 520 Program Evaluation for EMHS

Examines core concepts and techniques of program evaluation and policy analysis and applies them to specific challenges in the domains of emergency management and homeland security. Develops knowledge and expertise in the practice of evaluating public sector programs, policies and other agency actions related to hazards issues—both natural and human-made. Develops students’ knowledge, skill and ability in identifying appropriate research designs for particular evaluation and policy analysis problems; in managing data and focusing reports based on project objectives; and in appropriately characterizing and presenting empirical data gathered for program evaluation and policy research projects. Provides an opportunity to learn about conducting evaluation and policy research in a way that is relevant to solving policy and management challenges germane to emergency management and homeland security agencies.

CPP 523 Found Prog Eval I: Mult Reg

Regression serves as the foundation for modern quantitative program evaluation techniques. Regression analysis is not a single thing—it is a powerful set of tools used to examine relationships in data and test hypotheses concerning the significance of these relationships. Regression can be used to analyze observational data, in which case it can be used to identify important correlations that help us predict when events will occur together. In the program evaluation context we are specifically interested in causal analysis, which allows us to determine whether a management practice, a nonprofit or government program, or a specific public policy has a positive impact. When certain conditions are met we can use regression analysis to estimate the impact of a policy or program. This course builds a foundational understanding of the mechanics of multiple regression, the proper interpretation of regression models, and the circumstances in which we can use regression results for causal reasons.

CPP 524 Found Prog Eval II: Res Design

Covers important concepts in research design and common quasi-experimental tools for causal analysis.
CPP 525 Found Prog Eval III: Adv Reg

Extends previous course by translating each specific form of the counterfactual--pre-post with comparisons, reflexive design, and the post-test only design--into specific regression models that leverage each counterfactual. Helps expand program evaluation toolkit by demonstrating how to estimate several common regression models that leverage unique data and counterfactual specifications and teaches how to estimate program effects using a given research design.

CPP 526 Found Data Sci I: Data Prog R

Data is an essential ingredient of any program evaluation or performance management system. Organizations that want to embrace an evidence-based approach to management need to develop processes for gathering data; linking multiple datasets; running analysis; and sharing results with stakeholders through reports, dashboards or Web applications. The ability to collect, organize and analyze data is a desirable skill set for professional knowledge workers, high-level management and evaluators. Introduces the R data programming language, an open source platform that has become an industry standard because of its flexibility and power.

CPP 527 Found Data Sci II: Data Wrang

The data preparation cycle: gather, clean, tidy and wrangle the data to produce a custom research database.

CPP 528 Found Data Sci III: Proj Mgt

The main tools and practices of managing large or complex data projects, typically involving teams. Students learn about project management tools used by open source software developers, useful tools for creating client reports, important considerations.
CPP 529 Data Analytics Practicum

Applies knowledge and tools from previous courses in program evaluation and data analytics in order to get practice building and analyzing custom research databases. Students are given a collection of raw data that needs to be linked together in order to conduct analysis, and guidance on how to implement a specific research question. Students merge the data, wrangle it into the proper format for analysis, apply the prescribed regression techniques, interpret results, and create a report with key findings.

CPP 530 Ldrshp Innov Public Fire Svcs

Provides current and future fire service leaders with an understanding and the skills necessary to manage creativity and foster a culture of innovation in public fire and emergency services. The approach is to treat the fire officer as an entrepreneur who identifies ideas and opportunities, then builds a business case for innovation.

CPP 540 Found Emergency Med Services

Examines the operational structure of emergency medical services in the United States, including the current organization, delivery and financing of these systems. Discusses strengths, weaknesses and future challenges of EMS with consideration for creating systems better integrated with the overall health care delivery system.

CPP 550 Community Paramedicine: MIH

Explores mobile integrated health care and community paramedic programs and how health care professionals and community partners can work together to identify community health needs, foster partnerships and overcome hurdles in MIH/CP program development. Discusses examples of successful MIH/CP programs.
CPP 560 Emerg Svcs Ops Analysis/Plng

Applies common data analysis tools and techniques appropriate to risk assessment, deployment analysis and performance measurement to evaluate an organization's abilities to respond to community risk.

CPP 570 GIS for Hazards Analysis

Provides a basic level of familiarity with several aspects of geographic information science such as key geographic concepts and techniques related to the theory and application of geographic information systems (GIS). Covers topics such as data models, geographic coordinate system and map projections, data entry and editing, and various types of spatial analysis in both conceptual terms as well as practical application. Additionally, outlines a range of GIS-related activities in emergency management and homeland security. Exposes students to the current and potential roles of GIS in support of emergency management activities in each of the four stages of the emergency management cycle. Gives students a basic understanding of GIS and its possibilities along with the capabilities as they apply to emergency management and homeland security.

CPP 575 U.S. Cyber & Info Sec Policy

Prepares students to understand and manage human and technical resources within the increasingly important cyber and information security domains. As high-profile data breaches and cyberattacks--that result in physical losses, disruptions and disasters--impose greater risks and costs on our public and private sector--as well as military and intelligence--networks, the policy and management aspects of these challenges have come to the fore. Compounding the technical and operational challenges arising from the protection of operating systems, networking and systems administration, managers and Chief Technology/Risk/Security/Data/Information Officers face a multidimensional set of political risks, including how to effectively manage data content and evaluation, information veracity and information sharing and distribution.
CPP 591 Seminar
Program Evaluation in EMHS
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Hazards Governance
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
International Health II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Curr Chall in Infect Diseases II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
US Cyber & Info Sec Policy
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Information Assurance Prin I
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
GIS for Hazards Analysis
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Clinical Govern & Risk Mgmt I
A small class emphasizing discussion, presentations by students, and written research papers.
CPP 591 Seminar
Bioterrorism & Health Intel I
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Hazard Mitigation Planning
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Outbreak Investigation II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Spirit of Service Scholars
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Hlth Aspects Crises/Emgs/Dis II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Clinical Govern & Risk Mgmt II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Bioterrorism & Hlth Intel II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Infectious Diseases Intel I
A small class emphasizing discussion, presentations by students, and written research papers.
CPP 591 Seminar
Infectious Diseases Intel II
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Outbreak Investigation I
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Hlth Aspcts Crises/Emgs/Dis I
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 591 Seminar
Curr Chall in Infect Dseses I
A small class emphasizing discussion, presentations by students, and written research papers.

CPP 593 Applied Project
Preparation of a supervised applied project that is a graduation requirement in some professional majors.

CRD 302 Inclusive Community Developmnt
Examines the characteristics of diverse populations across the lifespan to effectively develop inclusive community programs and services.
CRD 350 Tourism, Rec & Sports Mktg

Critical examination of marketing principles in leisure and related industries in diverse settings, including local, national, and international.

CRD 401 Managing Leisure Enterprises

Analyzes administrative function, structure, and policies. Successful application in administrative situations.

CRD 402 Assess&Eval Community Services

Introduces applied leisure research with emphasis on program evaluation, research design, data collection techniques, and data analysis.

CRD 403 Ldrship & Prof Devlpmt

Examines leadership theory and strategies, current professional issues, and refinement of professional philosophy and competencies that enable transition from student to professional.

CRD 435 Service Learning/Community Dev

Applies youth and adult development theories through community service immersion in collaboration with local nonprofit partners.

CRD 569 Advanced Tourism Studies

Advanced study of tourism with an emphasis on relevant practices, theories, and concepts.

CRD 569 Adv Tourism&Recreation Studies

Advanced study of tourism with an emphasis on relevant practices, theories, and concepts.
CRD 595 Continuing Registration

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

CRJ 100 Intro to Criminal Justice

Overview of the justice system. Roles of law enforcement personnel, the courts, and correctional agencies. Philosophical and theoretical views in historical perspective.

CRJ 100 Intro to Criminal Justice

History and current practice of the criminal justice system. Roles of law enforcement agencies, courts and correctional agencies.

CRJ 201 Crime Control Policies

Introduces concepts as the application of situational crime prevention strategies, problem-oriented crime control approaches, hot spots policing, defensible space, and crime prevention through environmental design. Students work to apply academic theory to actual crime problems in the local area.

CRJ 201 Crime Control Policies

Dimensions and causes of crime. Criminal justice system responses.

CRJ 203 Courts and Sentencing

History and development of courts, trial by jury, and other dispute resolution mechanisms; selection and removal of judges and juries; organization, structure, and jurisdiction of courts; trial and nontrial processes of the judiciary.
CRJ 203 Courts and Sentencing

Structure and operation of criminal court system.

CRJ 204 Juvenile Justice

History and development of the juvenile court and the juvenile justice system.

CRJ 225 Introduction to Criminology

Provides a broad survey of criminal behavior and the major attempts to explain it. Topics include definitions and measurement of crime, theories of crime causation, and crime types.

CRJ 225 Introduction to Criminology

Theoretical explanations for criminal behavior.

CRJ 230 Introduction to Policing

Introduces policing in the United States covering the history of police, contemporary police work, and problems in policing.

CRJ 230 Introduction to Policing

History of police. Contemporary police work. Problems in policing.

CRJ 240 Introduction to Corrections

Introduces the structure and function of the corrections system from historical and contemporary perspectives.

CRJ 240 Introduction to Corrections

Structure and operation of corrections system.

CRJ 260 Substantive Criminal Law

CRJ 270 Community Relations Jus System

Focuses on developing an informed plan and policy for incorporating research findings about the surrounding community within various justice services and agencies. Topics include social stratification, minority groups, and victimology.

CRJ 270 Community Justice

Collaborative and evidence-based approach to reducing crime, incorporating offenders, victims, the community and criminal justice agencies.

CRJ 302 Research Methods

Focuses on developing and evaluating research designs, data collection, and the relationship between validity and reliability. Also stresses methods for conducting research.

CRJ 302 Research Methods

Validity and reliability of research designs and data collection.

CRJ 303 Statistical Analysis

Introduces the fundamentals and application of descriptive and inferential statistics, with emphasis in the administration of justice area.

CRJ 303 Statistical Analysis

Fundamentals and application of descriptive and inferential statistics, with emphasis in the administration of justice area.

CRJ 303 Statistical Analysis

Fundamentals and application of descriptive and inferential statistics.
CRJ 305 Gender, Crime & Criminal Justice

Studies women as offenders, victims, and professionals in the criminal justice system.

CRJ 305 Gender, Crime & Criminal Justice

Women as offenders, victims and professionals in the criminal justice system.

CRJ 306 Race, Ethnicity, Crime

Studies minority issues in the criminal justice system.

CRJ 306 Race, Ethnicity, Crime

Minority issues in the criminal justice system.

CRJ 308 Advanced Criminological Theory

Focuses on the definition, measurement, causes, consequences, and control of crime. Explores fundamental debates in criminological thought through original readings in the field. Emphasizes critical assessment of dominant criminological theories.

CRJ 308 Advanced Criminological Theory

Critical assessment of criminological thought using original readings.

CRJ 309 Criminology

Theoretical explanations for criminal behavior.

CRJ 321 Imperatives of Proof

Problems and means of establishing identity and fact in relation to arrest, detention, adjudication, sentencing, and correctional case management.
CRJ 350 Law and Social Control

Resolution of social issues through the application of law as an agent of social control. Nature, sanctions, and limits of law. Categories of law and schools of jurisprudence.

CRJ 394 Special Topics
Prisons
Covers topics of immediate or special interest to a faculty member and students.

CRJ 394 Special Topics
Comparative Organized Crime
Covers topics of immediate or special interest to a faculty member and students.

CRJ 394 Special Topics
Gender Impact on Crim. Justice
Covers topics of immediate or special interest to a faculty member and students.

CRJ 394 Special Topics
The British Roots of U.S. CJ
Covers topics of immediate or special interest to a faculty member and students.

CRJ 403 Victims and the Criminal Jus

Examines criminal victimization in the United States. Topics may include: victimization theories, the nature and extent of victimization, the impact of crime on victims and society, the interactions between victims and the criminal justice system, and victim rights and services.

CRJ 403 Victims and the Criminal Jus

CRJ 404 Juvenile Delinquency

Causes, correlations and strategies to reduce juvenile delinquency.

CRJ 406 Sex Crimes

This course examines the prevalence, nature, and etiology of sex crimes. Crimes examined include sex-related homicide, sexual assault, intrafamilial sexual abuse, sex trafficking, and prostitution. The course also provides a comprehensive overview of the response of the criminal justice system to victims and perpetrators of sex crimes, with a focus on the investigation of sex crime and the prosecution and punishment of sex offenders. Other issues that will be covered are the history and impact of the rape law reform movement, rape trauma syndrome, sex offender treatment strategies, and the history and impact of sex offender notification and registration laws.

CRJ 406 Sex Crimes

Prevalence, nature and etiology of sex crimes. Response of criminal justice system to victims and perpetrators of sex crimes.

CRJ 408 Drugs and Crime

Address the problems, practices, programs, and policies associated with drugs, crime, and drug policy. Primarily focuses on the nature, patterns, and trends of drug use, the relationships between drug use and crime, and criminal justice policy targeted at drug use. Also focuses on discussing various research findings and the controversies surrounding the relationship between drugs and crime. Teaches students about theories of drug use and crime, the basic elements of drugs, and the history of drug control and contemporary drug policies. Pays specific attention to the war on drugs and how the role of race was and is intertwined with drugs and crime.
CRJ 408 Drugs and Crime

Patterns of illegal drug use. Problems, practices and policies associated with drugs, crime and drug policy.

CRJ 409 Police Accountability

Using historical, theoretical and practical approaches, explores major issues in police accountability and community policing including command and control systems, managing police culture, accountability to the community, and training.

CRJ 409 Police Accountability

Command and control systems. Managing police culture. Community policing and accountability to the community. Police training.

CRJ 410 Procedural Criminal Law

The criminal process. Constitutional and legal problems associated with arrest, search and seizure, and due process of law.

CRJ 410 Procedural Criminal Law

Criminal procedures mandated by the U.S. Constitution.

CRJ 412 International Terrorism

Provides a systematic examination of the structural, organizational and political characteristics that affect the topic of international terrorism. Also examines the legal ramifications of the Patriot Act and its legal implications upon our judicial system.

CRJ 412 International Terrorism

Structural, organizational, political and legal characteristics of international terrorism.
CRJ 417 Cyber Terrorism

Focuses on the specific avenues of terrorism that are perpetuated in the digital world of the 21st century.

CRJ 417 Cyber Terrorism

Terrorism perpetuated online. Terrorism and technology.

CRJ 419 Domestic Terrorism

Develops a foundation and understanding of how domestic terrorism has evolved in the United States of America. Introduces the history of significant events, current events, actors and organizations, and how the future of domestic security issues affects the internal and external politics of the USA. Also examines the problems that have been faced, created, and how other actors react to the United States approach to protect itself and combat Domestic Terrorism.

CRJ 419 Domestic Terrorism


CRJ 422 Violence in America

Provides undergraduate students with an understanding of violence in American society. Explores the meanings and measure of violence, as well as theoretical and historical context. Examines multiple dimensions of violence, including domestic, gang-related, terrorism, homicide, hate crimes, school violence and sexual assault. Explores, in addition to theoretical discussion, patterns, prevention, policy and practical implications.

CRJ 422 Violence in America

CRJ 443 Community Corrections

Examines the probation and parole functions as well as the numerous and diverse types of community corrections programs.

CRJ 443 Community Corrections

Probation and parole. Types of community corrections programs.

CRJ 455 Police & Int'l Terrorism

Suicide bomber interdiction, jihadism, and anti-terrorism intelligence gathering. History of prior attacks and policy responses.

CRJ 456 Etiology of Martyrdom

Development of a jihadist mindset. Social support for beliefs that lionize martyrdom.

CRJ 461 Domestic Violence

Legal, historical, theoretical, and treatment aspects of domestic violence, including child abuse, woman battering, incest, and marital rape.

CRJ 462 Gangs

Critical examination of the history and development of gangs, including criminal justice system responses to gangs and gang-related behaviors.

CRJ 462 Gangs

History and development of gangs. Criminal justice system responses. Nature of gangs and gang members.
CRJ 463 White Collar Crime

Overview of major issues in business, professional, and official rule violations. Includes consumer fraud, securities violations, unethical professionalism, and political corruption.

CRJ 463 White Collar Crime

Business, professional and official lawbreaking including consumer fraud, securities violations, unethical behavior and political corruption.

CRJ 464 Organized Crime

The nature of organized crime and its illegal activities, theories of containment, and efforts by justice agencies to counter its dominance in society.

CRJ 464 Organized Crime


CRJ 470 Discretionary Justice

Use/abuse, key issues/manifestations of discretion in legal system and other societal institutions. Theoretical/empirical linkages between discretion and discrimination, based on race, ethnicity, and gender.

CRJ 470 Discretionary Justice

Use and abuse of discretion in the criminal justice system. Theoretical and empirical links between discretion and discrimination based on race, ethnicity and gender.

CRJ 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
CRJ 494 Special Topics
Sex Crime
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Sex Offenders and Sex Crimes
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Crime Analysis
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Domestic Terrorism
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Violence in America
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Homeland Security
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
International Terrorism
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Criminal Justice Policy
Covers topics of immediate or special interest to a faculty member and students.
CRJ 494 Special Topics
Media and Crime
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Police&Int'l Terrorism-Israel
Covers topics of immediate or special interest to a faculty member and students.

CRJ 494 Special Topics
Etiology of Martyrdom
Covers topics of immediate or special interest to a faculty member and students.

CRJ 499 Individualized Instruction

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course.

CRJ 501 Seminar in Criminal Justice

Overview of the American criminal justice system, with emphasis on policy issues in police, courts, sentencing, corrections.

CRJ 502 Seminar in Criminology

Theory and research on the nature, causes, and prediction of criminal careers and events.

CRJ 505 Thry & Prac Criminal Justice

Capstone course for the MA in Criminal Justice; provides a synthesis of the criminal justice system.
CRJ 510 CJ Planning & Program Evaluation

Examines the application of alternative models of strategic planning to the criminal justice system. Covers methods of evaluating criminal justice policies and practices.

CRJ 511 Applied Data Analysis in Crim

Examines a variety of tools used in the analysis of criminal justice data, including GIS mapping.

CRJ 512 Seminar in Policing

Graduate-level review of policing and police organizations. Seminar examines research on police strategies and practices designed to address crime.

CRJ 513 Seminar in Courts & Sentencing

Overview of the nature, proposed principles, and theoretical doctrine of the courts and sentencing policies in criminal justice.

CRJ 514 Seminar in Corrections

Theory, research, and policy issues regarding community-based and institutional correction programs.

CRJ 515 Seminar in Women and Crime

Introduces students to issues regarding women and the criminal justice system, focusing on their roles as offenders, victims and professionals.

CRJ 516 Seminar in Crim Jus Org & Mgmt

Graduate-level review of policing and police organizations. Seminar examines research on police strategies and practices designed to address crime.
CRJ 516 Seminar in Crim Jus Org & Mgmt

How external and internal variables shape criminal justice systems' organizational behaviors. Emphasizes strategic hiring, professional socialization, effective leadership, progressive discipline, interagency collaboration and organizational change.

CRJ 518 Race/Ethnicity, Crime & Justice

Theoretical perspectives and research on the overrepresentation of racial minorities as victims, offenders, and defendants in the criminal justice system.

CRJ 519 Seminar on Victimization

Examines theory and research concerning victimization and consequences for victims, society, and the justice system. Also examines effective responses to victims' post-crime needs.

CRJ 520 Seminar on Violent Crime

Examines patterns and correlates of violent crime, as well as prevention strategies and policy implications.

CRJ 521 Seminar on the Nature of Crime

Examines patterns and correlates of crime at individual, situational, and aggregate levels. Topics include defining crime, offender typographies, and criminal careers.

CRJ 522 Seminar on Gangs and Crime

Theoretical perspectives and research on gangs and crime, and on the role of the community and the criminal justice system in causes and control.

CRJ 527 Police Accountability

Examines the great authority of police, the various and most common ways that police abuse that authority, the consequences of those abuses, and accountability mechanisms that can prevent those abuses from occurring.
CRJ 528 Prison & Jail Administration

Overview of prison and jail administrative practices, with emphasis on policy and management issues in modern correctional institutions.

CRJ 529 Community Corrections

Provides a review of theory, research and policy focusing primarily on correctional strategies and programs that take place within the community setting, as well as the function of community corrections within the larger correctional system. Gives particular attention to the purpose and goals of community-based corrections; the historical development of probation and parole practices; and contemporary community corrections programs and strategies such as evidence-based practices, risk assessment, offender reentry, sex offender management, diversion, restitution, community service programs and other emerging alternatives to traditional incarceration.

CRJ 530 Seminar in Forensics

Explores recent and sometimes controversial developments in forensic science. Includes topics such as quality assurance, the CSI effect and the National Academy of Sciences' report entitled “Strengthening Forensic Science in the United States: A Path Forward.”

CRJ 531 Crime Mapping

Examines the applied research methodology and conceptual framework used to conduct spatial analysis within the crime analysis profession.

CRJ 532 Sex Crimes

Not only discusses the distinctions among types of offenders, but also applies theory, analyzes public policy, examines the effect of sex offenses on victims, and discusses how we’ve legislated sexual behavior over human history.
CRJ 533 Seminar in White Collar Crime

Provides a general overview of white collar crimes including forms, contexts and response by the criminal justice system toward offenders and victims. Also addresses theoretical perspectives.

CRJ 535 Crime & Forensic Mental Health

This interdisciplinary course, which draws from the fields of criminology, psychology, sociology and law, focuses on the clinical assessment of people under the jurisdiction of a court of law.

CRJ 537 Criminal Procedure

Explores the criminal procedures mandated by the U.S. Constitution as applied to criminal investigations with emphases on pretrial rights under the Fourth, Fifth and Sixth Amendments.

CRJ 553 Terrorism/Weapons of Mass Des

Historical evolution of terrorism and weapons of mass destruction. Analyzes current theories and mitigation, preparedness, and response tactics.

CRJ 554 Homeland Security

Presents skills necessary to develop policies, strategies, programs, and organizational structure of an all hazards/all risk homeland security program.

CRJ 584 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
CRJ 598 Special Topics
Homeland Security
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
Crime Analysis
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
Police Accountability
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
Ecology of Crime
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
Criminal Justice Ethics
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
Politics of CJ Policy Making
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
CRJ 598 Special Topics
Crime Mapping
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Seminar in Forensics
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
POP Guide Clinic
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Public Safety Clinic
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Sex Offenders & Sex Crimes
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Etiology of Martyrdom
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
CRJ 598 Special Topics
Police&Int'l Terrorism-Israel
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
International Terrorism
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
The Death Penalty
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.

CRJ 598 Special Topics
Seminar in White-Collar Crime
Topical courses not offered in regular course rotation--
e.g., new courses not in the catalog, courses by visiting
faculty, courses on timely topics, highly specialized courses
responding to unique student demand.
CRJ 598 Special Topics
Crime & Forensic Mental Health
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Seminar in Domestic Terrorism
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Seminar in Cyber Terrorism
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CRJ 598 Special Topics
Exper. Learn. Gender & Justice
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CSM 201 Community Sports
Exchanges the role of community sports at the local, national and international levels.

CSM 483 Sports Tourism
Examines the relationship between sports and tourism, and the role of recreation and amateur sports as an economic and community development strategy. Also considers the motives, behaviors and experiences of sport tourists; the impacts of sport tourism; and trends in sports tourism.
CSM 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

CSM 485 Sports Events

Expands the basic concepts of recreation, leisure or tourism program planning and leadership as they are specifically related to sport events management.

NLM 310 Volunteer Management

Administration of volunteer service programs. Studies and analyzes the volunteer personnel process.

NLM 310 Volunteer Management

Studies volunteer administration practices integral to community organizations providing an introduction to management techniques including program organization, recruitment, interviewing, placement, supervision, recognition and evaluation.

NLM 510 The Nonprofit Sector

Provides grounding in scope, function and philosophical foundations of the nonprofit sector in American society, including civic engagement, service delivery, reproduction of values and entrepreneurship.

NLM 520 Financial & Resource Mgmt

Reviews funding structures utilized by nonprofit organizations; financial tools used by managers; fund raising practices and tools.
NLM 520 Financial & Resource Mgmt

Baseline understanding of key and critical financial management issues and practices for nonprofit organizations.

NLM 525 Fundraising & Resource Dev

Examines fundraising and resource development in philanthropy from the perspective of the nonprofit practitioner. Also examines issues confronting nonprofit organizations related to fundraising and philanthropic purposes in society. Increases students’ knowledge and understanding of charitable giving and fundraising—who gives to what, why, and how to raise funds for a cause. Examines a wide range of fundraising methods and tools. Focuses on critical thinking, reflection on practice, collaboration, discussion and writing.

NLM 530 Program Eval & Info Mgmt

Develops skills in several areas, including evaluation, needs assessment, information and data collection, data management and analysis, computer applications, and report writing.

NLM 540 HR in Nonprofit Organizations

Managing paid staff and human resources in nonprofit organizations; practices and theories.

NLM 540 Strategic HR Management

Managing human resources in nonprofit organizations; practices and theories.

NLM 545 Volunteer Resource Management

Core topics in effective management of volunteers in carrying out the mission of organizations and ensuring volunteers have good experience with community organizations.
NLM 550 Philanthropy

Examines the role of philanthropy and charitable giving in contemporary American society from perspectives of the nonprofit practitioner, the philanthropist and the general public.

NLM 560 Ldrshp/Ethics-Nonprofit Sector

Examines leadership and ethical questions encountered by managers and leaders in the nonprofit organizations.

NLM 562 Social Entrepreneurship

Introduces social entrepreneurship, including how ideas are formulated, constructed, and implemented; experiential learning in developing a social enterprise plan.

NLM 565 Grant Writing Nonprofit

Provides practical, experiential instruction identifying grant makers, writing proposals, developing budgets, and evaluating grant proposals for the nonprofit sector. Students develop proposals based on actual, identified needs of their partner nonprofit organization.

NLM 570 International NGO

Increases knowledge and understanding of international non-governmental organizations by examining what these organizations do and how they operate in a cross-cultural context.

NLM 572 Community & Social Innovation

Considers community innovation and development from the perspective of achieving balance among economic, environmental, social, physical and political realms as a framework of sustainability.
NLM 590 Reading and Conference

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

NLM 620 Capstone: Integrative Seminar

Improves understanding of trends emerging within nonprofits such as leadership, resource development, and social responsibility.

PAF 200 Public Serv & Policy in 21st C

Provides a broad introduction to the field of public service and leadership. Topics include an overview of management, policy, urban studies, and leadership in the public sector. Covers the history and development of the public sector, as well as how it serves contemporary society.

PAF 201 Economics and Public Policy

Introduces the terminology and methods of analysis in microeconomics. In particular, examines the behavior of individual consumers and firms, with a focus on market failures and the role of government policy in correcting those failures. Applies microeconomic principles to the distribution of income, policies for eliminating poverty and discrimination, the problems of environmental pollution, and the impact of different market structures on economic activity.

PAF 300 Public Management and Admin

Examines the context and role of the public manager and the development of the field of public administration.
PAF 301 Applied Statistics

Focuses on statistical techniques used in social science research. Applies concepts such as measures of central tendency and dispersion as well as statistical techniques, including the following: one-sample z and t tests, two-sample t tests, chi-square, and correlation. Goals include helping students understand the mathematical and statistical concepts presented and assisting them in using these concepts in everyday life and in the study of social sciences.

PAF 302 Public Service Research Method

The philosophy, scope, and methods of public sector research. Examines quantitative and qualitative research methods and research design.

PAF 311 Leadership and Change

The leader’s role in bringing about significant organizational and societal change with special attention to group and organizational behavior dynamics, establishing a vision, mobilizing and empowering individuals and groups, and assessing outcomes of the change process in a variety of settings.

PAF 340 Contemporary Policy Challenges

Develops conceptual, critical, and practical understanding of public policy, the policy process, and policy analysis.

PAF 360 Intro to Emergency Management

PAF 400 Senior Capstone Project

Teaches students to solve problems related to the public sector by applying theory, knowledge, and methods from previous courses to a hands-on project in the community. Seminars include guest speakers and discussions on professional development. Students work as individuals and as a team to prepare research papers and a professional report that is presented to the community.

PAF 410 Building Leadership Skills

Introduces understanding and developing leadership skills, including an examination of leadership theories and models from multidisciplinary and crosscultural points of view, an assessment of the student’s leadership capabilities, and practical applications to improve individual leadership capabilities.

PAF 411 Leadership and Change

The leader’s role in bringing about significant organizational and societal change with special attention to group and organizational behavior dynamics, establishing a vision, mobilizing and empowering individuals and groups, and assessing outcomes of the change process in a variety of settings.

PAF 420 Public Leadership

Examines key concepts, models, and strategies for leading public and nonprofit organizations, emphasizing self-knowledge, skills, and abilities for effective leadership.

PAF 424 Comprehensive Emergency Mgmt

Addresses theory and management techniques for emergency preparedness, including mitigation, preparedness, response, and recovery.
PAF 425 National Incident Mgmt System

Covers concepts, terminology, players, compliance requirements, including doctrine of National Incident Management System per HSPD-5. Discussion of National Response Plan.

PAF 460 Public Service Ethics

Role, values, and issues of public management in democratic governance, citizen participation, power structures, and professional codes of conduct.

PAF 461 Homeland Security

In-depth analysis of policies, procedures, and organizational structure for effective homeland security program. Covers all hazard/all risk philosophy.

PAF 468 Simulation and Exercising

Requirements, planning, conduct, and critique of exercises related to emergency planning. Emphasizes realism using moulage and props.

PAF 469 Terrorism Defense

Explores the background and evolution of terrorism. Presents specific tactics for preparation for and response to acts of terrorism.

PAF 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

PAF 507 Public Human Resource Mgmt

Personnel systems, behavior and management of people in public organizations, collective behavior, unionism, conflict management, motivation, productivity, and ethics.
PAF 508 Organization Behavior

Theory and application in the management of organizational behavior with emphasis on leadership and the public service.

PAF 520 Public Management

Management process in government and public agencies, with emphasis on the executive leadership within the public sector.

PAF 531 Community Conflict Resolution

Interdisciplinary approach to understanding the dynamics of community conflict. Strategic considerations in policy design and advocacy; potential reaction to conflict. Relevant models and research findings generated by both case studies and comparative methods.

PAF 552 Integrated Emergency Mgmt


PAF 553 Terrorism/Weapons of Mass Des

Historical evolution of terrorism and weapons of mass destruction. Analyzes current theories and mitigation, preparedness, and response tactics.

PAF 555 Information Tech in Emerg Mgmt

Provides theory and application of computer-based programs in emergency management and the use of various emergency modeling programs.
PAF 560 Community Resilience

Examines community resilience from a systems perspective, embracing governments, private, nonprofit and civic roles. Presents research, case studies, and strategies for policy planning and implementation. Provides an understanding of how community members respond to the need to prepare for, endure and recover from disasters and the ability to utilize multiple communication methods to help community members before, during and after these emergencies.

PAF 561 Interoperability Emergency Mgr

Enables understanding of the multiple technologies and skills utilized by emergency managers to enhance successful coordination and communication between all levels of emergency managers and responders during emergency mitigation, prevention, preparedness, response and recovery operations.

PAF 571 Geographic Info Sys/Analysis

Provides foundational information related to application of GIS technology to meet various needs within governmental operations, administration, and public policy.

PAF 582 E-Public Administration

Explores how new techniques and technologies for using, processing and managing information are changing how we interact, work and serve. As an example of this very concept, this course is offered online. During the semester, managers explore current trends, use a wide variety of information and communication tools, and have manager-created content consistent with new trends of online participation. By the end of the course, managers have experience with tools (including Wikis, Blogs, search engines, collaboration tools, reputation systems, social networks, virtual worlds); are familiar with current information issues (transparency, privacy, equal access, governance); and explore how they are relevant to a variety of contexts (local government, non-profits, public service).
PAF 585 Strat Planning Public Leaders

In an age of diminishing resources, the tools of strategic planning have become crucial for every public sector and non-profit manager. How can a public sector agency (or non-governmental organization) achieve its goals and advance its mission? How can it motivate its people given the absence of the sorts of incentives often found in the private sector? How can these organizations respond to a rapidly changing political, economic and social environment? These are among the questions that are addressed.

PAF 586 Data Analytics for Public Good

Explores techniques used for data extraction, analysis and visualization. In particular, students engage with social media data, devise solutions to address data-poor scenarios, and explore the potential of sentiment analyses to elucidate opinion trends and predict future attitude shifts. Discusses data visualization techniques and engages students with Tableau software. Also explores the social, political and ethical considerations associated with building and managing data analytics programs in the public sphere. Explores issues-critical dilemmas when it comes to issues such as data privacy, data protection, predictive analytics, personalized service delivery and resource provision, algorithmic regulation, and large-scale data analytics for administrative efficiencies and resource management optimization, among others.

PAF 587 Federal Budgeting & Tax Policy

Provides a broad understanding of federal budget and tax policy issues. The knowledge acquired in this class enable students to act as competent parties in the formulation of public policy within the federal budget and tax policy domains. Approximately one half of the class is devoted to federal budget processes and concepts including purposes, coverage, scoring, performance evaluation and proposed options for reform. The second half covers tax policy issues. Throughout the course, focuses on those budget and tax policy issues that are the current subject of political attention.
PAF 588 Global Public Policy

The study of public policy has traditionally focused on the operations of government agencies within national borders. Increasingly, however, public officials at all levels of government must confront challenges and opportunities that exist across borders. Whether the issue is immigration, national security, trade and finance, or the environment, public managers must be aware of global pressures and, in many cases, respond to them. This course gives managers the analytical tools to understand how global issues are currently being managed and what they might do to make the most of global opportunities.

PAF 589 Leadership in Public Orgs

Provides the foundation of theory and practice of administrative leadership. While students learn about all the major theoretical frameworks, focuses on an applied action research model that is useful in analyzing and developing oneself and others in organizational settings.

PAF 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

PRM 120 Leisure and Quality of Life

Conceptual foundations for understanding the role of leisure in the quality of life. Social, historical, psychological, cultural, economic, and political foundations of play, recreation, and leisure.

PRM 201 Community Sports

Examines the role of community sports at the local, national and international levels.
PRM 203 Program Planning

Effective program planning in varied leisure delivery systems.

PRM 203 Program Planning

Overview of the conceptual foundations and professional competencies necessary to effectively assess, plan, implement and evaluate programs.

PRM 210 Leisure Delivery Systems

Introduces development, management and organization of the public, nonprofit and private sectors for the leisure services professions.

PRM 310 Volunteer Management

Studies volunteer administration practices integral to community organizations providing an introduction to management techniques including program organization, recruitment, interviewing, placement, supervision, recognition and evaluation.

PRM 364 Foundations of Rec Therapy

Overview of therapeutic recreation and its concepts, practices, service models, and settings. Explores the provision of recreation and treatment services for individuals with disabilities.

PRM 380 Wilderness & Parks in America

Examines the American Conservation Movement and the relationships between the environment and recreation behavior.

PRM 455 Rec Therapy w/Children, Youth

In-depth study of the philosophical concepts, principles and techniques of play and recreation applied in practice to promote holistic health and well-being among children, youth and families.
PRM 475 Entrepreneurial Rec & Tourism

Explores basic business principles and innovative processes involved in starting a small business in the commercial recreation and tourism industry.

PRM 483 Sports Tourism

Examines the relationship between sports and tourism, and the role of recreation and amateur sports as an economic and community development strategy. Also considers the motives, behaviors and experiences of sport tourists; the impacts of sport tourism; and trends in sports tourism.

PRM 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

PRM 486 Special Events Management

Principles of programming and managing special events for diverse populations.

PRM 487 Advanced Special Events Mgmt

Advanced principles of special event sponsorship, public relations, marketing, contracting, risk management, and financial management.

SWG 501 Micro Human Behav Soc Environ

Human behavior in the social environment throughout the life cycle, analyzing theories of human development within an integrative multidimensional framework.

SWG 502 Macro Human Behav Soc Environ

Human behavior in the social environment, focusing on groups, organizations and communities and examining theoretical perspective in a macro context.
SWG 510 Foundation Practice I

Basic social work methods with emphasis on the problem-solving process as it pertains to individuals, families, and small groups.

SWG 511 Foundation Practice II

Theory and methods of direct practice with groups and selected practice models.

SWG 519 Research Methods/Social Work

Conceptual foundations and methods of nomothetic research in social work. Includes problem identification, hypothesis formulation, measurement, sampling, and experimental design.

SWG 526 Mental Health/Sentencing

Helps justice system professionals understand existing mental health diagnoses, the DSM-5, and how specific DSM-5 categories are associated with specific types of crime.

SWG 527 Mitigation Death/Life Cases

Issues and skills for practicing as a mitigation specialist in cases of death and life without parole.

SWG 528 Presentence Investigations

Examines the functions and objectives of presentence investigation reports and prepares students to perform different types of investigations for limited and general jurisdiction courts for local, state and federal courts.

SWG 529 Alternatives Penal Sanctions

Prepares individuals to practice as sentencing advocates on defense teams, as consultants to problem-solving courts, or as private presentence investigators hired by the defense to advocate for alternatives to incarceration.
SWG 531 Social Policy and Services


SWG 533 Diversity/Oppression/Soc Work

Explores issues of social inequality related to disability, ethnicity, gender, race, and sexual orientation. Emphasizes populations of the Southwest.

SWG 540 Professional Experience I

Explains the historical origins of the social work profession, discusses the values and ethics unique to the profession, and familiarizes students with resources available at the school and the university for students enrolled in the MSW online program.

SWG 541 Field Practicum I

With SWG 542, two consecutive semesters (480 hours) of supervised social work practice in an approved placement.

SWG 542 Field Practicum II

See SWG 541

SWG 562 Global Social Welfare

Analyzes social work’s response to international social issues and human need from the perspectives of globalization, development and human rights.

SWG 579 Critical Incident Stress Mgt

Theory and research behind coping strategies and mechanisms commonly experienced by Emergency Management Teams (EMT) and DHS. Explores topics of stress, trauma, vicarious trauma and mass trauma as experienced by the individual and large populations.
SWG 585 Macro Social Work Practice

Examines communities and human service organizations as social systems. Introduces strategies for initiating planned change.

SWG 591 Seminar
Ethics Social Work Perspective
A small class emphasizing discussion, presentations by students, and written research papers.

SWG 591 Seminar
Lesbian and Gay Issues
A small class emphasizing discussion, presentations by students, and written research papers.

SWG 591 Seminar
Juvenile Justice & Social Wk
A small class emphasizing discussion, presentations by students, and written research papers.

SWG 591 Seminar
War and Disaster
A small class emphasizing discussion, presentations by students, and written research papers.

SWG 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

SWG 598 Special Topics
Professional Seminar I
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.
SWG 598 Special Topics
Professional Seminar II
Topical courses not offered in regular course rotation--e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

SWG 606 Assessment of Mental Disorders
Theories and concepts of mental health and illness. Attention to classification systems and nomenclature used in assessing mental disorders.

SWG 610 Adv Social Work Practice III
Assists students in advanced theoretical understanding and practice with families, groups, and communities.

SWG 610 Adv Social Work Practice III
Knowledge and skills for advanced practice with individual and families.

SWG 614 Adv Generalist Soc Wk Prac IV
Integrates a multilevel approach to practice with critical choice theories and interventions. Focus on groups, organizations, and communities and their impact on social work practice. Completion of the foundation courses or advance standing in the MSW program, or instructor approval, is required for all 600-level SWG courses.

SWG 614 Adv Generalist Soc Wk Prac IV
Knowledge and skills for advanced practice with groups and communities.

SWG 623 Program Evaluation
Research design techniques and data collection in human service agencies and communities. Analysis for program evaluation and needs assessment.
SWG 632 Policy Practice

Develops advanced knowledge and skills in social welfare policy analysis, policy formulation, and advocacy and intervention for policy change.

SWG 640 Professional Seminar II

Applies social work’s knowledge base to advanced generalist social work.

SWG 645 The Professional Experience III

240 hours of supervised social work practice. Provides opportunities to apply classroom learning in the field setting. Y/E grade only.

SWG 645 The Professional Experience III

With SWG 646, two consecutive semesters (480 hours) of supervised social work practice in an approved placement related to the student’s career goal.

SWG 646 Professional Experience IV

With SWG 645, two consecutive semesters (480 hours) of supervised social work practice in an approved placement related to the student’s career goal.

SWU 171 Introduction to Social Work

Descriptive and historical perspectives of social problems, social justice issues and society’s response to them.

SWU 180 Intro to LGBT Studies

A historical, socio-cultural introduction to lesbian, gay, bisexual, transgender, transsexual, and intersexed communities and their resilience to challenges and barriers.
SWU 181 Econ: Social Issue Perspective

Introduces economic principles through the lens of contemporary social issues for social work and related fields.

SWU 182 Soc Serv Perspective Gov’t

Explores levels of government and policy practice in advancing social and economic justice and effective social services within the Southwest.

SWU 183 Intro Ethics:Soc Issue Perspec

Introductory exploration of ethics from a historical and multicultural perspective viewed through the lens of contemporary social issues.

SWU 250 Stress Management Tools

Helps students develop an understanding and behaviors to create a healthy balance in their lives by studying the bio/psycho/social aspects of wellness.

SWU 250 Stress Management Tools I

Helps students develop an understanding and behaviors to create a healthy balance in their lives by studying the bio/psycho/social aspects of wellness.

SWU 291 Social Service Delivery Syst

Federal, state, private not-for-profit and for-profit social service delivery system’s purpose, structure, and professional roles. Includes 40 volunteer hours.

SWU 302 Human Biology for Soc Workers

Overview of human anatomy and physiology, and the reciprocal relationship between physical and social environments. May be repeated for credit.
SWU 302 Human Biology for Soc Workers

Overview of human anatomy and physiology, and the reciprocal relationship between physical and social environments. May be repeated for credit.

SWU 303 Micro Human Behav Social Envir

Human behavior in the social environment throughout the life cycle, analyzing theories of human development within an integrative multidimensional framework.

SWU 306 Ethics in Social Services

Focuses on following the NASW Code of Ethics in making ethical decisions in social service settings.

SWU 320 Research Methods in Social Wk

Applies scientific principles to field practice, problem formulation, intervention procedures, and impact assessment in social work.

SWU 321 Statistics for Social Workers

Teaches social work students how to use and interpret descriptive and inferential statistics in social work practice. May be repeated for credit.

SWU 332 Social Policy and Services

Contemporary social, political, and economic issues. Special emphasis on poverty and inequality in the Southwest. Analysis and development of social welfare policies and programs.

SWU 332 Social Policy and Advocacy

Contemporary social, political and economic issues. Special emphasis on advocating for oppressed populations. Analysis and development of social welfare policies and programs.
SWU 340 Macro Human Behav Social Envir

Human behavior in the social environment, focusing on groups, organizations and communities and examining theoretical perspectives in a macro context

SWU 349 Stress Management Tools II

Developing mindful strategies toward managing stress, developing instinct awareness; healthy decisions in nutrition, relationship with self, others and creating a personal carbon footprint.

SWU 350 Whole Person Health

Development of mindful strategies toward managing stress and identification, implementation and integration of skills and knowledge for well-being across the lifespan.

SWU 351 Sustainable Living-Mindful Eating

Addresses issues related to foods we eat, how we eat, and impacts of choices on health, the environment, locally and globally.

SWU 374 Diversity/Oppression/Soc Wk

Issues of social inequality related to race, ethnicity, gender, sexual orientation, and disability. Emphasizes populations of the Southwest.

SWU 394 Special Topics
Statistics for Social Workers
Covers topics of immediate or special interest to a faculty member and students.

SWU 394 Special Topics
Human Biology/Social Workers
Covers topics of immediate or special interest to a faculty member and students.
SWU 454 Overview of Addictions

Addictions and their impact upon society including alcohol, legal and illegal drugs, gambling, the Internet, sex and pornography. Focuses on the etiology of addictions that impact our society on a micro, mezzo and macro level. Provides an ecological perspective to view human behavior across the life span as it relates to addictive behaviors.

SWU 456 Immigrants and Refugees

Provides basic conceptual approach to understanding immigrant and refugee issues and how these factors influence social work practice with immigrant and refugee populations.

SWU 457 SW Borderland Immigratn Issues

Reviews immigration history, trends, policies, and legislation. Focuses on immigrant experience from economic, educational, social, political, familial perspectives in Southwestern U.S.

SWU 458 Behavioral Health Services

Behavioral health conditions; their impact on the individual, family and community; and historical and contemporary service models.

SWU 460 Legal Issues in Social Work

How the law relates to social work practice, administration and policy.

SWU 461 LGBTQ Issues

Historical, socio-cultural introduction to lesbian, gay, bisexual and transgender communities and their resilience to challenges and barriers.
SWU 462 Global Social Welfare

Analyzes social work's response to international social issues and human need from the perspectives of globalization, development and human rights.

SWU 488 Advocacy Strategies

Comprehensive advocacy approach that spans administrative, legislative and community strategies.

SWU 498 Pro-Seminar
Juvenile Justice & Social Wk
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SWU 498 Pro-Seminar
Behavioral Health Services
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SWU 498 Pro-Seminar
Lesbian/Gay Issues
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

SWU 498 Pro-Seminar
Working With American Indians
Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.
TDM 205 Intro to Travel and Tourism

Examines the components of the travel and tourism industry at the state, national, and global levels.

TDM 225 Intro to Resort & Hotel Mgmt

Introduces local, national and international lodging and food service industries.

TDM 345 Meeting & Convention Planning

Basic aspects and skills in planning meetings and conventions. Industry and market overview of certified meeting planners.

TDM 350 Tourism, Rec & Sports Mktg

Critical examination of marketing principles in leisure and related industries in diverse settings, including local, national, and international.

TDM 386 Convention Sales & Management

The role of convention and visitors bureaus or resort managers, including economic impacts of markets, structure, governance, membership, and advertising.

TDM 448 Heritage and Cultural Tourism

Provides a solid conceptual understanding of the issues, problems, and management implications associated with heritage and cultural tourism.

TDM 458 International Tourism

Global examination of international tourism and its significance as a vehicle for social and economic development.
TDM 475 Entrepreneurial Rec & Tourism

Explores basic business principles and innovative processes involved in starting a small business in the commercial recreation and tourism industry.

TDM 480 Sustainable Tourism

Tourism has a multitude of impacts, both positive and negative, on people's lives and on the environment. Critically analyzes the environmental, economic, and socio-cultural aspects of tourism development, and strategies to attain balance among these three dimensions to guarantee its long-term sustainability.

TDM 481 Sustainable Food Management

Focuses on the fundamentals of sustainability, sustainable food systems, relationships between food and tourism, and the applications of sustainable food practices in different types of global tourism. Defines sustainable development, explains the importance of sustainable food systems, recognizes the relationship between local food systems and global food challenges. Connects the challenges of creating and maintaining sustainable food systems with the needs of tourists and tourism destinations; defines leakage in reference to tourism and food. Creates and applies sustainability assessment criteria to food systems in a variety of different tourism spaces.

TDM 483 Sports Tourism

Examines the relationship between sports and tourism, and the role of recreation and amateur sports as an economic and community development strategy. Also considers the motives, behaviors and experiences of sport tourists; the impacts of sport tourism; and trends in sports tourism.

TDM 484 Internship

Structured practical experience following a contract or plan, supervised by faculty and practitioners.
TDM 520 Sustainable Thinking in TDM

First in a series of two courses introducing students to the basic concepts of sustainability and their application and implications for tourism.

TDM 520 Sustainable Thinking in TDM I

First in a series of two courses introducing students to the basic concepts of sustainability and their application and implications for tourism.

TDM 521 Sustainable Thinking in TDM 2

Second in a series of two courses focusing on how to measure, assess, and plan for sustainability in the tourism industry.

TDM 521 Sustainable Thinking in TDM II

Second in a series of two courses focusing on how to measure, assess, and plan for sustainability in the tourism industry.

TDM 530 Destination Planning I

Applies sustainable economic and regional development concepts and theories to destination planning and management. Students learn the fundamentals of sustainable planning, including stakeholder involvement and meeting community needs.
TDM 540 Sustainable Food Management

Focuses on the fundamentals of sustainability, sustainable food systems, relationships between food and tourism, and the applications of sustainable food practices in different types of global tourism. Students learn to define sustainable development; explain the importance of sustainable food systems, recognize the relationship between local food systems and global food challenges; connect the challenges of creating and maintaining sustainable food systems with the needs of tourists and tourism destinations; define leakage in reference to tourism and food; and create and apply sustainability assessment criteria to food systems in a variety of different tourism spaces.

TDM 550 Sustainable Tourism Bus Mgmt

Through case study analysis, students learn how sustainability impacts business operations, how successful sustainable businesses identify and assess alternative resource management techniques, and evaluate operational models for embedding sustainability practices into their business models.

TDM 561 Best Practices Preparation

First in a series of two courses investigating and sharing best practices in sustainable tourism. Provides an overview of best practices and innovative actions in tourism. A destination or business is identified to be used as a case study.

TDM 562 Best Practices Presentation

Second in a series of two courses investigating and sharing best practices in sustainable tourism. Provides an overview of best practices and innovative actions in tourism. A presentation of a best practices case study is conducted for the class.
TDM 570 Sustainable Tourism

Critically examines the environmental, economic, and socio-cultural aspects of tourism development, and strategies to attain balance among these three dimensions to guarantee its long-term sustainability.

TDM 593 Applied Project

Preparation of a supervised applied project that is a graduation requirement in some professional majors.