Supplemental Course Descriptions for Fall-2018

Updated March 29, 2018

AFRA - Africana Studies

AFRA 205-11 ART IN THE AGE OF BLACK LIVES MATTER
Explores the place of fine art, film, and popular music within black protest traditions by historicizing #BlackLivesMatter and various artworks it has spurred.

ANFS - Animal & Food Science

ANFS 667-19 APPLICATIONS OF GENOME SCIENCE: FROM MICROBES TO MAMMALS
Harness the power of genome science. Gain an understanding of how fundamental principles of genetics and genomics translate into "big data" application platforms ranging from untangling human ancestry to building the future animals and crops for agriculture. Prereq: ANFS/ENWC/PLSC300, or BISC413; STAT200 or MATH201.

ANTH - Anthropology

ANTH 367-70 PERSONHOOD AND THE SELF: ANTHROPOLOGICAL PERSPECTIVES
In the age of globalization, considers different countries which are geographically and culturally apart. Studies how a proper way of being a person may differ from one social group to another.

ANTH 267-70 PREHISTORIC ARCHAEOLOGY AND JAPANESE ETHNICITY
Archaeological and anthropological perspectives on Japanese ethnicity through early writings in Meiji and Taisho periods, prehistoric archaeology; current developments of genetic studies in Japanese archipelago and Asia Pacific basins; history in immigration, religion, society, environment, and food.

ART - Art and Design

ART 267-70 SEMINAR: SPANISH CONTEMPORARY ART
Provides an intro to Spanish contemporary art. Examines the concepts behind the work and the evolution of Spanish art in relation to similar movements in Europe and United States. Includes visits to relevant exhibitions in Barcelona, and talks by professional artists.

ART 367-70 SEMINAR: NEW TENDENCIES IN SPANISH CONTEMPORARY ART
Spanish contemporary artists explore how frontiers between classic disciplines are dissolving, an how contemporary art is becoming ever more interdisciplinary, confusing and unclassifiable.

ART 467-70 SEMINAR: URBAN INVENTIONS AND ART AS LANGUAGE
Focuses on the idea that art and urban interventions can be understood as a language. In order to maintain the course as close to real artistic practice, there will be scheduled visits to various museums and public spaces.
Introduction to contemporary spanish art between the years 1970 and 1990. Taught in Spanish. Prereq: 300 level SPAN course.

ARTH - Art History

ARTH 311-10 WOMEN IN ANTIQUITY
Explores the lives of women in the ancient Greece & Rome through an investigation of visual & textual sources. Topics include ancient domestic life, sexuality, medicine, & religion among powerful women, wives, working women, & slaves.

ARTH 402-10 ARTS OF CRIME & PUNISHMENT IN THE UNITED STATES
Considers how painters, photographers, sculptors, cartoonists, designers, architects, filmmakers, and other artists have represented, shaped, negotiated, and challenged the social norms and institutional practices of crime and punishment in the United States since c. 1831.

ARTH 601-10 METHODS & HISTORIOGRAPHY
The development of art history from Vasari through Winckelmann to the present. Research methods and tools; interpretation and theory including connoisseurship, iconography, semiotics, social art history, psychoanalysis, post-structuralism, globalism, thing theory, technical art history, visual studies.

ARTH 606-10 NARRATIVE IN THE AGE OF Giotto
Examines the function and purpose of pictorial narrative in the West from the eleventh century to Giotto's emergence in the fourteenth. Considers medieval and early Renaissance art from all of western Europe. Special attention to southern Europe, specifically Italy.

ARTH 626-10 DIPLOMATIC THINGS: ART & ARCHITECTURE IN GLOBAL CONTEXTS
Explores how art and architecture have been deployed by the modern state in pursuing diplomatic agendas. Cultivates critical understandings of how subversion is materialized in international relations, plotting American & African engagements with one another and in European & Asian arenas.

ARTH 667-10 THE GLOBE, ASIA, AESTHEtICS
Part of the Terra Foundation-funded Project on Impact of Asian Aesthetics on North America. Studies the emergence and translation of aesthetics through flow of ideas, visual memory, cultural industry, and human movement.

ARTH 167-70 HISTORY OF ART: PREHISTORIC TO MIDDLE AGES
Survey of art and architecture in the Western tradition from prehistoric times until the end of the Middle Ages. Familiarizes students with main developments in visual culture during the chosen period,. Introduces basic methodology of art-historical studies.

ARTH 602-10 AUTHORSHIP & ATTRIBUTION
Explores how, why, and to what ends the search for attribution is practiced today, in museums and beyond. Studies these issues through first-hand investigations of specific European paintings.

ARTH 616-10 ORIGINALITY, CREATIVITY, VIRTUOSITY IN RENAISSANCE & BAROQUE ART & THEORY
Theories of originality and the creative process. Topics include: artistic rivalries; plagiarism; nonfinito; paragone; difficolta; the "divine" artist; concepts of novelty; allegories of genius. Focus on Leonardo, Michelangelo, Cellini, Caravaggio, Carracci, Reni, Rosa, Bernini, Velazquez, Giordano.
ARTh 467-11  Diplomatic Things: Art & Architecture in Global Contexts
Explores how art and architecture have been deployed by the modern state in pursuing diplomatic agendas. Cultivates critical understandings of how subversion is materialized in international relations, plotting American and African engagements with one another and in European and Asian arenas.

ARTh 667-11  Diplomatic Things: Art & Architecture in Global Contexts
Explores how art and architecture have been deployed by the modern state in pursuing diplomatic agendas. Cultivates critical understandings of how subversion is materialized in international relations, plotting American and African engagements with one another and in European and Asian arenas.

ARTh 406-80  Narrative in the Age of Giotto
Examines the function and purpose of pictorial narrative in the West from the eleventh century to Giotto's emergence in the fourteenth. Considers medieval and early Renaissance art from all of western Europe. Special attention given to southern Europe, specifically Italy.

ACCT - Accounting

ACCT 667-11  Advanced Auditing
Studies advanced concepts, theories, and data analytic techniques applied to external integrated audit engagements. Includes case studies and provides an in-depth analysis of current auditing issues.

BHAN - Behavioral Health & Nutrition

BHAN 267-10  Individual Health Assessment
Theoretical background related to specific health risk appraisal tools, the meaning of the results and an opportunity to develop skills necessary to conduct non-invasive health appraisals, including heart rate, blood pressure, body composition, cardiovascular, musculoskeletal fitness.

BHAN 467-10  Health Behavior Science Peer Mentoring
Opportunity to develop and apply skills as Peer Mentors for students enrolled in BHAN160 Health Behavior Science Seminar. Peer Mentoring experiences will be learned and applied under BHAN Professional Academic Advisor supervision.

BHAN 367-10  Health Communication Campaigns
Examines health communication campaigns that promote behavior change at the individual, interpersonal, organizational, and community levels. Exploration of the current media environment and how campaigns use channels including apps, social networks, and television.

CIEG - Civil & Environmental Engineer

CIEG 467-12  Concrete Materials
Covers fundamentals of cement and concrete, its constituents and sustainability aspect; relates processing with chemistry, microstructure and performance like strength and durability.

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Covers fundamentals of cement and concrete, its constituents and sustainability aspect; relates processing with chemistry, microstructure and performance like strength and durability.
CIEG 667-10 APPLIED OPERATIONS RESEARCH
Optimization principles and techniques including linear/non-linear programming, network flow, multiobjective decision making, decision analysis, queueing, game theory. Modeling/solving real-world problems using commonly available software tools Excel Solver and IBM ILOG CPLEX Optimization Studio.

CIEG 467-11 ENVIRONMENTAL ENGINEERING COMMUNICATION
Covers key concepts for effective communication in environmental engineering, including stakeholder identification and methods of communication. Uses specific projects (site remediation, permit issuance, stormwater management, etc.) as a basis for in-class activities.

CIEG 667-13 PROJECT ENGINEERING FOR RAIL/TRANSIT
Provides an overview of project management and construction engineering skills required for rail and transit operations. Includes effective management strategies, cost estimation and cost control, planning and scheduling, value engineering, condition assessment and infrastructure asset management.

CIEG 467-14 MICROBIOLOGY LAB
Basic microbiology laboratory techniques, and biological analyses important to environmental engineering and water quality. Isolate and identify microbes with activities potentially useful in water treatment technologies.

COMM - Communication

COMM 318-70 ETHICS IN THE MEDIA
Focusses on introductory areas of study in media communication.

COMM 267-71 VISUAL CULTURE
Introduces students to visual culture. Focusses on photography, film and multimedia. Familiarizes students with international photography, both historical and contemporary and how imagery is used to communicate with an audience.

COMM 267-70 LANGUAGE AND POWER
Comprehend the basic tenets connecting language to power. Gain resources to argue the pivotal questions and investigate the problematic issues.

COMM 418-10 PROGRAMMING
Principles and strategies of programming for broadcasting and cable. Topic areas include audience feedback, network & local programming, syndication, and specialized programming, followed by an analysis of TV ratings. Review of financial aspects of buying syndicated packages.

COMM 337-50 MID-TERM MATTERS
Seminar offered in conjunction with speaker series focused on current policy and political problems facing the United States. Guest lecturers, officeholders and candidates, political and media practitioners explore the problems and their implications for the nation, and for campaigns and decision making.
COMM 447-10 NATIONAL AGENDA
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COMM 440-10 COMMUNICATION FOR EFFECTIVE LEADERSHIP
Focuses on theories of leadership, as well as the emotional, behavioral, and communicative tools that allow individuals in leadership positions to better engage team members, defuse confrontations, and motivate others toward their best efforts.

CISC - Computer & Info Sciences

CISC 459-10 THE POWER OF NETWORKS
Introduces six fundamental principles of networking that connect our lives. Considers examples such as how Google orders search results; why Amazon, Netflix and YouTube use different rating and recommendation methods; why WiFi is faster at home than at Starbucks. And more!

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CISC 849-10 APPLIED GAME THEORY
Explore game theory; survey recent research; and identify research challenges and directions.

CISC 859-10 NETWORK & DISTRIBUTED SYSTEMS SECURITY
Selected topics in network and distributed system security. Involves reading, presenting, and discussing research papers and a term project. Topics include Internet security, wireless and mobile network security, Internet of Things security, cloud computing security, and social network security.

CISC 849-11 ETHICAL ISSUES IN ROBOTICS & AI
Covers the history of robotics and artificial intelligence; reviews philosophical foundations and professional guidelines for engineers; and examines topics such as robots as caregivers/companions, surveillance and data mining, driver-less cars, military drones, and superhuman game-players.

CISC 489-10 AI IN GAMES
Artificial Intelligence is becoming an increasingly important part of computer and video games. The techniques that are often used in games for movement; path finding; decision making; tactics and strategy; and learning will be examined and implemented in several turn-based and real-time games.

CISC 367-10 INTRODUCTION TO COMPUTER SCIENCE RESEARCH
Prepares students to conduct computer science research. Topics: research methodology: literature reviews; identifying important research problems; problem solving/progress tracking; designing/conducting evaluation studies; oral/written communications of research; and research ethics.

CISC 889-10 MULTI-AGENT LEARNING
Seminar-format exploration of cooperative and competitive learning (or adaptation) in a multi-agent context. Primary focus is on multi-agent reinforcement learning (learning in stochastic games). Discusses both traditional AI and game-theoretic approaches in the recent literature will be discussed.
CISC 467-10 MALWARE ANALYSIS
Provides practical approaches to the understanding of malicious software. Learn the fundamentals of and associated tools for malware analyses. Covers behavioral and code analysis phases. Content does not preclude students having limited exposure to programming concepts from enrolling.

CISC 467-11 DISCRETE EVENT SIMULATION
Introduces discrete event simulation (DES) in a pragmatic, computer-based applications environment. Topics include: statistical sampling; random number generation; DES languages and modeling techniques; debugging; model verification; results analysis; and model presentation.

CISC 467-12 VIP: CLOUD CRYPTO

CISC 467-13 VIP: HIGH-PERFORM COMPUTING
Learning and using directives for parallel platforms; Migrating legacy code to GPUs and co-processors using high-level parallel programming models; Parallelizing irregular algorithms on massively parallel processors; Exploring Repeatability and Reproducibility issues.

DISA 667-10 ISSUES IN DISASTER RECOVERY
Involves the theory and practice of Disaster Recovery.

EDUC 267-70 EDUCATION SYSTEMS
A wide-ranging introduction to education systems, with special reference to education in Japan. Examining both a broad range of key areas and participants’ own assumptions. Comparative approach will be used to engage with emerging educational issues as well as existing programs in Japanese education.

ELEG 467-10 VIP: GRID INTEGRATED VEHICLES
Identifies electric vehicles based on their unique charging characteristics; develops open source software.
that can be deployed by all electric vehicle chargers; collects data and validates results using our university fleet of electric vehicles and charging stations.

**ELEG 467-11 VIP: E-TEXTILES**
Course involves electronic material design such as functional inks for realizing conductive, resistive and capacitive elements using additive manufacturing; Electronic design of integrated textile based biosensors; Seamless integration of electronic components. http://vip.udel.edu/e-textiles

**ELEG 467-14 VIP: ARTGINEERING**
Research includes Embedded control systems, developing open source control software and hardware, studying public interaction with robotics, advancing hands on education through exhibition quality system design and development.

**ELEG 467-16 VIP: DRONES**
Key Elements include Image Processing, Sensor Fusion, Control Systems, Volume Reconstruction, Object Detection In Images, Adaptive Systems And Machine Learning. To learn more, go to http://vip.udel.edu/drone

**ELEG 467-17 VIP: SCOOTERSV2.0**
Goals: A self-driving mobility scooter for the elderly and the infirm. Key elements are Electronic sensors, computer vision, and machine learning. To learn more, go to http://vip.udel.edu/scooterv2

**ELEG 467-18 CYBERSECURITY SCHOLARS**
Cybersecurity scholars intends to train thought leaders in cybersecurity as part of a four-year program. Students explore real-world issues in cybersecurity while working with clients and experts.

**ELEG 467-20 CHARACTERIZATION OF ELECTRONIC MATERIALS AND DEVICES**
Focuses on the fundamentals and practical considerations of the myriad techniques that are used to characterize electronic materials. Includes the theoretical underpinnings of the techniques and discuss applicability and limitations.

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EGGG - Engineering

EGGG 467-10 DATA SCIENCE II
Examines how one can employ tools/techniques of data science. Covers topics needed to solve problems, including data preparation (collection & integration), data characterization & presentation, data analysis (experimentation & observational studies), and data products. Continues Data Science I.

ENWC - Entomology & Wildlife Ecology

ENWC 667-10 CHEMICAL ECOLOGY
Discover that plants talk to each other, insects and birds use odors to locate preys, fish not only stink but also smell their environment, and that babies recognize the smell of their mom. Welcome to an unexpected world of fragrances.

ENWC 267-10 MED/VET/FORENSIC ENTOMOLOGY
Explores the animal and human diseases vectored by insects and other arthropods, and the role insects play in decomposition and criminal investigations, with focus on morphology, behavior, and life cycles of medically and forensically important arthropods.

GEOL - Geological Sciences

GEOL 667-13 ADVANCED TOPICS IN HYDROLOGY
Explores topics in Hydrological Sciences at an advanced level. Examines three areas of active research. Taught in modular format to give students flexibility to select three topics most relevant to them from a list of Specialized Hydrology Courses (SOHCs).

HLPR - Health Promotion

HLPR 467-11 PUBLIC HEALTH IN PRACTICE
Examines factors that lead to health inequities i.e.; educational and economic disadvantage, food insecurity, trauma, and isolation. Explores the dilemma confronting policymakers, providers, and community members, through cases and presentations. Exposure to community engagement.

HDFS - Human Development & Family Science

HDFS 667-10 SUBSTANCE ABUSE AND THE FAMILY
Provide an overview of substance abuse, with an emphasis on how it affects the family. Topics include definitions and trends, the physiological effects of substances, the psychological effects of substances, children of substance abusing parents, prevention, and intervention.

**HDFS 472-10 SUBSTANCE ABUSE AND THE FAMILY**

Provide an overview of substance abuse, with an emphasis on how it affects the family. Topics include definitions and trends, the physiological effects of substances, the psychological effects of substances, children of substance abusing parents, prevention, and intervention.

**HDFS 467-12 ADVANCED RESEARCH IN SUBSTANCE USE DISORDERS**

Participation in a faculty member’s applied research program on issues related to substance use disorders. Covers overview of substance use, along with research study design and implementation; data collection, management, and analysis; and dissemination of findings.

**HDFS 667-12 ADVANCED RESEARCH IN SUBSTANCE USE DISORDERS**

Participation in a faculty member’s applied research program on issues related to substance use disorders. Covers overview of substance use, along with research study design and implementation; data collection, management, and analysis; and dissemination of findings.

**HDFS 867-10 GRANT WRITING SEMINAR**

Introduction to funding agencies and opportunities, components of successful grant applications, and the grant review process. Prepare a grant application, and review/provide feedback on the work of peers. Focuses on funding from NIH, NSF, IES and Spencer Foundation.

**HDFS 367-10 INTRODUCTION TO SOCIAL WORK PRACTICE**

Provides an overview of Social Work as a profession and practice. Discusses the historical development of social work, theoretical perspectives, multi-cultural issues, National Association of Social Workers (NASW) code of ethics, social problems and careers.

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**LEAD - Leadership**

**LEAD 337-50 MID-TERM MATTERS**

Seminar offered in conjunction with speaker series focused on current policy and political problems facing the United States. Guest lecturers, officeholders, and candidates, political and media practitioners explore the problems and their implications for the nation, for campaigns and decision making.

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**MISY - Management Information Systems**

**MISY 667-10 ETHICS FOR IT PROFESSIONALS**

Introduces the theory and practice of ethics for computer professionals. Challenges students to analyze the basis for ethical decision making and the methodology for reaching ethical decisions.

**MISY 467-10 DATA & ANALYTICS**

Builds knowledge of relational databases and also explores non-relational (noSQL) databases. Applies these structures to machine learning and artificial intelligence using Python. Prereq: MISY330 and MISY225.

**MISY 667-11 ENTERPRISE ARCHITECTURE: DIGITALLY TRANSFORMING BUSINESS**
Explore key components of corporate Enterprise Architecture (EA) and how the environment transforms business creating sustainable value. Examine contemporary EA platforms: ERP, CRM, cloud, social and mobile computing, e-commerce, supply chain, data governance, mashups, big data, and data centers.

**MAST - Marine Science & Policy**

**MAST 667-18 METHODS IN FISH ECOLOGY**  
Laboratory & field based course teaching students a variety of approaches and techniques used to study the biology and ecology of estuarine and marine fishes. Introduces traditional fish ecology methods, in addition to newer techniques and approaches.

**MAST 467-17 MARINE ORGANIC GEOCHEMISTRY**  
Considers all aspects of organic matter in the marine environment including its quantities, allochthonous and autochthonous sources and sinks, molecular composition, reactivity, and measurement. Prereq: CHEM213/215 or CHEM331/322 and associated labs.

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**MALS - Master of Arts in Liberal Studies**

**MALS 667-10 HOW TO READ AN ELECTION.**  
Uses psychology, literature and film for insights into how people really make decisions; why even transparent lies are so often effective; and how people can draw opposite conclusions from the same evidence; relevant to questions that inevitably arise during an election season.

**MSEG - Materials Science & Engineering**

**MSEG 467-20 CHARACTERIZATION OF ELECTRONIC MATERIALS AND DEVICES**  
Focuses on the fundamentals and practical considerations of the myriad techniques that are used to characterize electronic materials. Includes the theoretical underpinnings of the techniques and discuss applicability and limitations.

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**MSEG 667-20 BIO-INSPIRED MATERIALS: FROM SYNTHESIS TO MANUFACTURING**  
Focuses on the design of macromolecular materials utilizing inspiration from natural systems, such as wood, nacre, silk, and pine cones. Key synthetic strategies, hybrid approaches, architectural schemes, manufacturing innovations, and potential applications will be discussed.

**MSEG 467-20 CHARACTERIZATION OF ELECTRONIC MATERIALS AND DEVICES**
Focuses on the fundamentals and practical considerations of the myriad techniques that are used to characterize electronic materials. Includes the theoretical underpinnings of the techniques and discuss applicability and limitations.

**MSEG 667-20 CHARACTERIZATION OF ELECTRONIC MATERIALS AND DEVICES**
Focuses on the fundamentals and practical considerations of the myriad techniques that are used to characterize electronic materials. Includes the theoretical underpinnings of the techniques and discuss applicability and limitations.

**MSEG 667-21 BIO-INSPIRED MATERIALS: FROM SYNTHESIS TO MANUFACTURING**
Focuses on the design of macromolecular materials utilizing inspiration from natural systems, such as wood, nacre, silk, and pine cones. Discusses key synthetic strategies, hybrid approaches, architectural schemes, manufacturing innovations, and potential applications.

**MSEG 467-20 CHARACTERIZATION OF ELECTRONIC MATERIALS AND DEVICES**
Focuses on the fundamentals and practical considerations of the myriad techniques that are used to characterize electronic materials. Includes the theoretical underpinnings of the techniques and discuss applicability and limitations.

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**MATH - Mathematical Sciences**

**MATH 567-11 STOCHASTIC CALCULUS WITH APPLICATIONS IN FINANCE**
Covers the essentials of stochastic calculus with a view towards applications to finance, primarily stochastic portfolio theory. Prereq: MATH 221 or MATH 241; MATH 210 or MATH 230. MATH 350 recommended.

**MATH 267-0 INTEGRATED APPROACH TO CALCULUS I**
Course integrates Calculus and PreCalculus.

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**MUSC - Music**

**MUSC 167-10 HISTORY OF FILM MUSIC**
Examine a history of music in cinema from silent movies to present day with an emphasis on key periods and the works of seminal composers and filmmakers. Knowledge of music is not required, but helpful.

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**NTDT - Nutrition & Dietetics**

**NTDT 367-10 APPLICATION IN CLINICAL PRACTICE**
Didactic, experimental learning opportunities in clinical nutrition (hospital setting), including application of nutrition care process, model in simple/complex medical conditions. Students complete comprehensive case study on patient with a chosen medical condition. Prereq: NTDT 250 Coreq: NTDT 450. Recommend
**NTDT 467-10 PEDIATRIC OVERWEIGHT OBESITY**
Examine the social determinant, behavioral factors that play a role in pediatric overweight/obesity from early childhood to adolescence. Includes physical/psychological consequences of overweight/obesity in the pediatric population. Emphasis on implementation of evidence-based interventions/programs.

**NTDT 467-12 NUTRITION PEER MENTORING**
Focus on developing skills in academic advising/mentoring for peers. Experiences under supervision of nutritional faculty member.

**NTDT 467-11 MYPLATE AMBASSADOR**
Experimental learning with faculty coaching. Develop skills in planning and presenting programs to college community. Evaluate effective teaching methods.

**NTDT 367-10 CULINARY MEDICINE**
Blended course of online learning, experiential laboratory experience, problem-based case studies in practical applications, translation of nutrition recommendations into food prep. Topics include basic prep principles and recipe modifications for nutrition-related medical conditions and concerns.

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**PLSC - Plant & Soil Science**

**PLSC 467-13 PLANT-CONTAMINANT INTERACTIONS**
Explores how organic and inorganic contaminants interact with plant rhizospheres and roots and consequently follow pathways ranging from contaminant degradation to plant toxicity. Discuss applications to food safety, pesticide development, and phytoremediation.

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**PLSC 467-19 APPLICATIONS OF GENOME SCIENCE: FROM MICROBES TO MAMMALS**
Harness the power of genome science. Gain an understanding of how fundamental principles of genetics and genomics translate into "big data" application platforms ranging from untangling human ancestry to building the future animals and crops for agriculture. Prereq: ANFS/ENWC/PLSC300, or BISC413; STAT200 or MATH201.

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**POSC - Political Science**

**POSC 447-10 NATIONAL AGENDA**
Seminar offered in conjunction with speaker series focused on current policy and political problems facing the United States. Guest lecturers, officeholders and candidates, political and media practitioners explore the problems and their implications for the nation, and for campaigns and decision making.
UAPP - Urban Affairs & Public Policy

**UAPP 667-10 MULTIDISCIPLINARY PERSPECTIVES ON SMART CITIES**
Guest speakers offer diverse and competing interpretations of 'smart cities'; definition; promises; limitations and inherent risks. Experts of urban planning, engineering and more will share perspectives. Explores basic yet complex questions.

WOMS - Women's Studies

**WOMS 311-10 WOMEN IN ANTIQUITY**
Explores the lives of women in the ancient Greece & Rome through an investigation of visual & textual sources. Topics include ancient domestic life, sexuality, medicine, & religion among powerful women, wives, working women, & slaves.