

2008 Fall Supplemental Course Descriptions

ANTHROPOLOGY

ANTH 367-010 THE ARCHAEOLOGY OF AGRICULTURE

Surveys the archaeology of the transition from hunting and gathering to farming, from a broad anthropological and interdisciplinary perspective. Includes ecological and social causes of the transition; where and when it occurred; and health, ecological and social impacts of agriculture.

ANTH 390-080 THE ANTHROPOLOGY OF CLOTHES

Considers clothes from a cross-cultural perspective. The unifying theme is how peoples' clothes interact with and reflect other aspects of their cultures, such as economics, politics, gender, and religion. Read and discuss a series of archaeological, ethnographic, and contemporary case studies of clothing.

ANTH 467-010 ETHNOGRAPHIC FILM

Examines changes in critical standards applied by anthropologists for the evaluation of motion picture films made and/or used by ethnographers to illustrate aspects of primate and human behavior.

ART

ART 367-010 CRANE ART INITIATIVE INTERNSHIP

The Department of Art is opening an exhibition space at the Crane Art Center, in Northern Liberties in Philadelphia. Students will be involved in exhibition implementation, public relations, event planning and special workshop preparation. Prereq: Junior standing and transportation to Philadelphia

ART CONSERVATION

ARTC 367-010 CHEMICAL PRINCIPLES OF ART CONSERVATION MATERIALS

Studies how the principles of general and organic chemistry are applied to the analysis, use and manipulation of materials found in works of art or used to restore and preserve these objects. Prereq: CHEM103/104 or equivalent and CHEM321/322 or equivalent

ART HISTORY

ARTH 267-010/BAMS267-010 AFRICAN AMERICAN ART

Survey of the fine arts produced by people of African descent in the U.S. from 1863 to the present. In addition to issues regarding identity and aesthetics, our focus will be their negotiation of the art world given its history of racial exclusionism.

ARTH 367-010/BAMS367-010 ART OF THE NIGER DELTA

Explores the art of the Atlantic Niger Delta, particularly interested in the relationship between a unique system of rivers, the religious practices they have inspired, and the art that both represents and reproduces this universe.

ARTH 417-010, REMBRANDT AND DUTCH ART

Examines Rembrandt against the broader framework of artistic production and the rise of the art market in the 17th-century Dutch Republic.

ARTH 421-010 PAUL CEZANNE

The life and art of Cezanne in the context of the history, social and political developments, and cultural and artistic movements of his times. Includes readings by members of Cezanne's circle, his friends Zola, Alexis and Gasquet, and his dealer Vollard.

ARTH 467-010 RACE & REPRESENTATION IN AMERICAN ART

Exploration of how racial identities in the U.S. are articulated through visual form and the socio-cultural conditions and conflicts that they negotiate. Representations of the majority demographic group. i.e., "Whites," will be considered along with the imagery of a range of minority groups.

ARTH 605-010 ROMAN SCULPTURE AND THE CULTURES OF DISPLAY

Explores Roman sculpture as objects of ancient (and modern) display, in both the public and private spheres.

ARTH 616-010 STYLE & ORIGINALITY IN IT. BAROQUE ART & THEORY

Includes colore v. disegno and the geopolitics of style; gender and the vocabulary of description; rivalries (Lanfranco/Domenichino; Guercino/Reni); notions of novit? In art and poetry; plagiarism; the role of academies, antiquarians, collectors; revivals and survivals; the Paragone debate (painting v. sculpture); style as meaning.

ARTH 620-010 TOURISTS, TRAVELERS AND IMMIGRANTS

Explores the art of Caucasians (native, immigrant, and long term resident expatriate to traveler) in 20th century Africa from the likes of Margaret Trowell, through Nigeria's Suzanne Wenger, to contemporary South African Penny Siopis. The backdrops are the gendered white narrations of "Black Africa."

ARTH 635-010 THE PEALES OF PHILADELPHIA

Explores late colonial and early national art in Philadelphia with a focus on Charles Wilson Peale and his family. Includes the interrelations of art, science, and politics; portraiture, urbanism, and early art academies; Peale's Museum and the exhibition culture of the early republic. Field trips required.

BLACK AMERICAN STUDIES

BAMS 367-014 HISTORY of BLACKS IN THE AMERICAN WEST

Examines the history of Blacks in the American West from the Spanish colonial era through the first decade of the 21st Century. Focuses on the contributions of men and women who shaped the history of the region, of black America, and of the entire nation.

BIOLOGY

BISC 667-010 CONFOCAL MICROSCOPY

Basic introduction to operation and theory of light and confocal microscopes. Confocal microscopy is a powerful research tool for high-resolution, blur free, optical images. Includes image formation, 3-D rendering, multi-dimensional microscopy, transmitted, fluorescence and reflected light techniques, sample preparation and analysis.

BUSINESS ADMINISTRATION

BUAD 467-010 ETHICS IN THE WORKPLACE

Examines ethics as it affects personal choice and decision making. Includes communications, power and influence, leading, what goes wrong that leads to destructive behavior and how to build an ethical work environment.

BUAD 867-050 DATABASE MARKETING

Designed to help students develop the ability to intelligently manipulate customer information databases using various statistical methods, and to use the resulting information to enhance marketing programs and build strong customer relationships.

CHEMICAL ENGINEERING

CHEG 867-011 SCATTERING METHODS

Neutron, light, and X-ray scattering techniques provide structural information covering the atomistic, nano, and micro length-scales. Provides a practical introduction, including the underlying theory and application of these methods to complex fluids, polymers, self-assembled gels and solutions, nanoparticles, and nanostructured materials.

CIVIL & ENVIRONMENTAL ENGINEERING

CIEG 467-013/CIEG 667-013 EUTROPHICATION & SED FLUX MOD

Eutrophication models: carbon, nitrogen, phosphorus and silica mass balances; chlorophyll, primary production and dissolved oxygen; multiple species; annual simulations; computational models available; application to lakes and estuaries. Sediment flux models: organic matter diagenesis; ammonia, nitrate, oxygen, phosphorus and silica flux models; computational implementations; application to freshwater and marine sediments.

CIEG 467-017/CIEG 667-017 REGIONAL ANALYSIS METHODS

Analysis and modeling tools focused on the relationships between existing, planned and proposed transportation systems and how their varying mobilities impact forecast population and employment distributions. Lecture/discussion on key topics in transportation and land use analysis with actual "hands-on" experience with technical software analysis tools.

COMPUTER & INFORMATION SCIENCE

CISC 367-010 HISTORY AND PRESERVATION OF MICROCOMPUTING

Explores important milestones contributing to the evolution of modern micro-computing systems through historical context and by experimenting with historical microcomputer system hardware, operating systems and software. Researches and discusses reasons why historical preservation of computer hardware and software is important.

CISC 367-011 PROGRAMMING PRACTICUM: RAPID PROTOTYPING

Programming projects typically need teams of programmers to rapidly develop proof-of-concept working implementations. Using ACM International Programming Contest problems as examples, we hone the skills of the programmer's craft. The course is a three hour weekly lab without additional work time.

CISC 849-010 ADVANCED RENDERING & IMAGE SYNTHESIS

Gives a broad overview of the theory and practice of rendering and image synthesis. Covers classic rendering algorithms. Focuses on current results in physically based and image based algorithms. Prereq: CISC640

CISC 879-010 ABSTRACT INTERPRETATION

General formal framework for the (static) analysis and verification of computer programs. Introduces the basic concepts of AI. Includes problem sets, and reading and presenting papers.

CISC 879-012 SOFTWARE TESTING AND MAINTENANCE

Study of software testing and maintenance methodologies and tools for object-oriented, component-based, concurrent, and web software. Topics include approaches to automatic test case generation, test oracles, coverage analysis, regression testing, and tools used in software maintenance.

COMMUNICATION

COMM 367-010/POSC 367-010 ELECTION 2008 LECTURE SERIES

Focuses on Political Communication and the 2008 Presidential election.

COMM 418-010/COMM 618-010 POLITICS AND ENTERTAINMENT

Examines the relationship between politics and entertainment with a specific focus on the latest trends in "politico tainment." Examples: TV drama West Wing, and presidential candidate appearances on late night comedy programs.

COMM 418-011 BROADCAST PROGRAMMING

Examines the principles and strategies of programming for broadcasting and cable. Includes audience feedback, network and local programming, syndication, and specialized programming, followed by an analysis of TV ratings. Covers strategies for primetime programming.

COMM 467-010,080/POSC 467-010,080/ENGL 467-010,080 ROAD TO THE PRESIDENCY

During the final months of the 2008 election season, students actively explore the conduct of the campaign from the points of view of candidates, media and public, fitting the current campaign into the history of American politics.

ECONOMICS

ECON 467-010 ECONOMIC HISTORY OF AMERICAN MONETARY SYSTEMS

Economic analysis is used to evaluate the evolution and performance of the U.S. monetary system from the colonial period to the early 20th century. Emphasis is placed on the causes and consequences of changes and on explaining how wars and bank panics altered monetary institutions. Prereq: ECON 302; ECON 303.

ELECTRICAL ENGINEERING

ELEG 467-010/667-010 CHARACTERIZATION OF ELECTRONIC MATERIALS & DEVICES

Covers many of the wide range of techniques used to characterize the structural, electronic and optical properties of electronic materials and devices. The emphasis is on the underpinnings of the techniques and their applications to modern research.

ELEG 467-011/667-011 NEXT GENERATION MOBILE SERVICE

Focuses on the technology, methodologies, architectures, and paradigm shifts that accompany the development of next generation mobile services. Prereq: ELEG 651, CPEG 419, CISC 450 or CISC 650 and ELEG 812.

FOREIGN LANGUAGES & LITERATURE

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FLLT 367-070 TEACH FOREIGN LANG IN SCHOOLS

Principles of second language learning; theory and practice of K-12 curriculum, development of fundamental skills and abilities in teaching, listening, speaking, reading, writing in foreign language; techniques of instruction planning; concepts of teaching culture.

FLLT 467-010 WRITING HUMAN RIGHTS

Promotes discussion and debate on the political and aesthetic possibilities of literature from Israel to Ivory Coast, from Serbia to Sudan, as a response to specific human tragedies, as well as the celebratory and the delightful portrayals of human nature in culturally diverse, non-canonical texts of the 21st century.

FINANCE

FINC 867-050/ACCT 867-050 PRIVATE EQUITY/VENTURE FINANCING

Investigates the legal, accounting, and financial issues surrounding the establishment and funding of a new or existing business using private equity. Emphasis is placed on equity transactions and private placements. Prereq: ACCT800 or equivalent.

FINC 867-051 FINANCIAL MODELING & VALUATION

Use financial modeling techniques to value IPOs, mergers, private equity transactions, and leveraged buyouts. Learn the economic principles supporting these techniques, and apply them to various transaction types using real financial data. Stress is on bridging the gap between theory and practice. Prereq: FINC850

FINC 867-052 FOUNDATIONS OF FINANCIAL ECONOMICS

Focuses on financial economics or the theory of financial decision making. Forms the necessary building blocks for all the traditional topics in finance.

GEOGRAPHY

GEOG 367-070 GEOGRAPHY OF CENTRAL & WEST EUROPE

Environments, cultures, utilization of resources, problems of development and future opportunities in central and western European countries. Field trips to see geographic features (alpine landscapes) specific to Austria.

GEOG 467-010/GEOG 667-010 WEATHER FORECASTING

A daily analysis and discussion of current and future weather conditions affecting Delmarva. Students assemble daily weather talking points and graphics for use by a local television station in their weeknight newscasts. Develop special reports on seasonal weather conditions and unusual weather events.

GEOG 467-050/GEOG 667-050 ATMOSPHERIC CHEMISTRY

Students gain a working knowledge of the principles of atmospheric chemistry and in-depth knowledge on some areas of current interest, including air pollution, climate change and stratospheric ozone.

GERMAN

GRMN 367-070 GERMAN LANGUAGE WORKSHOP

Continued development of German language skills such as conversation, writing, and vocabulary.

HISTORY

HIST 367-012 AMERICAN LIFE IN THE 1960s

Examination of the history of the 1960s, a decade of profound social transformation and unrest in American history.

HIST 367-013 AMERICAN SPORTS HISTORY

Traces major developments in American sports history since the Civil War.

HIST 367-410 REVOLUTIONARY DELAWARE

Covers Delaware during the period of 1760-1812. Explores political and social developments in Delaware during these years, looking at Delaware's leaders as well as the 'lower orders' including less wealthy whites, free blacks, and slaves.

HOTEL, RESTAURANT & INSTITUTIONAL MANAGEMENT

HRIM 367-051/COMM 367-051 INTRODUCTION TO FOOD ON TELEVISION

Explores the history of food on television, from Chef Julia Child to the rise of the Food Network. Includes; How "food television" is produced; How chefs, restaurateurs, and others use television as a medium to grow their businesses; How those professionals convey their message to the public.

LINGUISTICS

LING 467-010/LING 667-010 MATHEMATIC STRUCTURE OF LANGUAGE

Introduction to mathematical structures found in natural language. Studies the mathematical properties of sets, relations, functions, trees, and lattices and some applications to syntax, semantics, and phonology.

LIBERAL STUDIES

MALS 667-010 FOOD IN OUR SOCIETY

Explores the prosaic structures that provision our society, and how taste and preference interact with the systems of labor, business, and technology that make food available in different places, and at different times.

MALS 667-410 INTELLECTUAL FREEDOM

Uses history, literature, and lawsuits to examine the Inquisition; the Salem witch trials; anti-communist activities; and current disputes over "political correctness," speech codes, and public religious speech.

MALS 667-411 MEMOIR WRITING

Creative, contemplative, and critical, Memoir Writing is a disciplined exploration of the theory and practice of written recollection, grounded in reading and discussion of influential memoirists.

MARINE STUDIES

MAST 267-010 ENERGY, ENTROPY, AND THE ENVIRONMENT

The principles of conservation of energy and the production of entropy are developed and applied to modern environmental issues such as pollution, "green" energy, "carbon footprints" and sustainability. Individual and class projects examine the pros and cons of proposed solutions to these issues.

MAST 367-010 CLIMATE CHANGE

Evolution and present state of the global climate system. Factors influencing climate including interactions among the atmosphere, oceans, solid earth, and biosphere. Stability and sensitivity of climate system. Global warming, ozone depletion, and other human influences, as well as mitigation and adaptation strategies.

MAST 667-011 PERL PROGRAMMING FOR BIOLOGISTS

Introduction to programming concepts and the utilization of PERL to handle large genomic data sets for bioinformatic analyses.

MATERIAL SCIENCE ENGINEERING

MSEG 667-011 ETHICS IN NANOSCIENCE

Investigates the societal, environmental, and ethical issues that come from rapid advances in nanoscience and nanotechnology. Analyzes a broad picture of the current status of nanotechnology and introduce theories of ethics. Critically reflects on the future of responsible technological development in this area.

NURSING

NURS 867-010 ISSUES OF AGING RESEARCH

Integration of genetic and bio-psycho-social phenomena along the lifespan in the context for exploring issues of aging research across disciplines. Explores assumptions about theories of aging, design and methods, measurement, and knowledge use in health care, legislation and policy.

PLANT SCIENCE

PLSC 467-010 SOIL FORMATION

Soils as historical objects in natural and human managed ecosystems. Soil diversity, its genetic relationships to physical, chemical, and biological processes. Co-development of soils and landforms. Feedbacks between soil formation and local to global biogeochemical cycles and climate changes. Two optional weekend field trips. Prerequisite PLSC 204 and GEOL 107.

SPANISH

SPAN 467-010 CAPSTONE: TRANSATLANTIC DIALOGUE

Analyzes various types of first encounters among Europeans and the indigenous peoples of the Americas. Diverse literary genres, from both sides of the Atlantic, will ground discussion on questions of discovery, identity, alterity, empire, colonialism, and gender. Course is taught in Spanish.

THEATRE

THEA 367-010 CREATIVITY, THE ARTS, AND EDUCATION

Focuses on developing an understanding of creativity through readings, discussion, and analyses of multiple texts. Strategies for developing your creative potential will be included in this comprehensive course.

URBAN AFFAIRS & PUBLIC POLICY

UAPP 667-010 ENTERPRISE SYSTEMS FOR PUBLIC & NON-PROFIT ORGANIZATIONS

Focused on the managerial and policy aspects of creating and managing modern information technology enabled public and non-profit sector organizations through the use of information systems. Introduces public and non-profit-managers to the basics of enterprise-wide software solutions and the methods for evaluating the return on investment and risks.

UAPP 667-011 QUALITATIVE METHODS FOR POLICY ANALYSIS

Introduction to qualitative research methods within the context of analyzing public policy. Methodologically, conceptualize a research problem, design and conduct a small-scale interpretive policy study through collecting data, apply basic qualitative analytic procedures, and interpret findings.

UAPP 667-016 URBAN POL/PLANNING:EUROPEAN/US

Focuses mainly on Great Britain, the Netherlands and Germany in comparison to the United States. Includes policies, programs/planning approaches to city center development, neighborhood revitalization, affordable housing, and urban services within the frame of the respective national planning system and administrative structure.

UAPP 667-017 CURRENT ISSUES: INTERNATIONAL DEVELOPMENT

Examines critical issues in the field and explores the methods and practices that governments, international organizations and universities use to address these issues. Includes case studies, discussions, theory and practice of international development; U.S. government foreign assistance agencies and programs.

WOMEN'S STUDIES

WOMS 367-011/ENGL 367-011 WOMEN AND THE CULTURE OF WORK

Using fiction, film, song and history, explores gender, ethnicity, and race through the lens of labor and class. Considers the global nature of women's work, out-sourcing and sweatshops. Discusses international nannies and modern female slavery.