

# Supplemental Course Descriptions for Fall-2013

Updated May 7, 2013

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## ACCT - Accounting

### **ACCT 367-10 REGULATION & COMPLIANCE IN MODERN BUSINESS**

Examines how government regulates the way it does – policy choices, goals and costs/ benefits – and how companies, using people, processes and technology, meet their compliance and control objectives.

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## ANFS - Animal & Food Science

### **ANFS 267-10 HUMAN-ANIMAL INTERACTIONS**

Includes discussions on physical and psychological benefits, social development, zoonotic disease, animal conservation, and animal welfare.

### **ANFS 367-10 MICROBIOLOGY AND MICROBIAL INT**

Designed for students in preveterinary medicine, animal biology, and food science. Introduces the fundamental biology of bacteria, eukaryotic microorganisms, and viruses. Emphasizes interactions of microorganisms with each other, various hosts, and complex environments. Prereq: CHEM104.

### **ANFS 467-17 EMERGENCY ANIMAL MANAGEMENT**

Looks at the disruption to animals caused by disease, weather and human activity. Studies the emergency response framework of surveillance, quarantine, treatment, disposal and disinfection. Includes livestock, companion animals and specialty animals.

### **ANFS 467-16 GENETICS AND BREEDING**

Advanced genetics taught through the lens of plant and animal breeding and its impact on society. Learning achieved through student team activities and discussions on topics relevant to G&B.

### **ANFS 567-10 FOOD SAFETY MODERNIZATION ACT (FSMA), THE MOST SWEEPING REFORM OF OUR FOOD SAFETY LAWS**

Focuses on the FDA Food Safety Modernization Act (FSMA), the most sweeping reform of our food safety laws. The broad aim of FSMA includes many changes to ensure the U.S. food supply is safe by shifting the focus from responding to contamination to preventing it.

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## ARSC - Arts & Science

### **ARSC 367-11 DIVERSITY IN DIALOGUES**

Explores the concept of differences among us, and how those differences can inhibit or enrich interaction across group boundaries. Explore diversity issues through lectures & small group discussions.

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## ARTH - Art History

### **ARTH 198-11 100 AFRICAN MASTERWORKS: PAINTING, SCULPTURE, ARCHITECTURE, VIDEO**

Only the best through the ages of Africa's painting, sculpture, performance and movies. From King Tut to Mandela!

**ARTH 198-10 BUILDING THE WESTERN WORLD**

Surveys patterns of architecture and settlement from antiquity to last Friday. Lectures link monuments from major traditions with a series of themes to make the past relevant to today.

**ARTH 199-10 THE AGE OF MICHELANGELO**

Explores the art and life of one of the greatest artists of all times: Michelangelo Buonarroti. Examines masterpieces such as David and the Sistine Chapel ceiling paintings. Includes the works of predecessors, contemporaries and followers: Donatello, Leonardo da Vinci and Raphael, among others.

**ARTH 405-0 VISUAL CULTURE IN POMPEII**

Investigates diverse forms of visual communication integral to the fabric of Pompeii, including spectacles, banquets, commercial spaces, house decorations, and civic benefactions. Addresses issues of patronage, viewership, and self-representation.

**ARTH 413-0 COLLECTING NEW WORLDS**

Explores the afterlife of non-European images and artifacts, mainly those created in the Americas, after their integration into early modern European collections and representations.

**ARTH 415-0 CARAVAGGIO**

Critical readings of recent Caravaggio scholarship. Topics include: self-fashioning; rejected altarpieces; new technical studies; scandals in attributionism; autograph replicas; the late period (Naples, Malta, Sicily); Caravaggio in popular culture.

**ARTH 420-10 MODERN AND CONTEMPORARY ARTISTS AND HISTORIC ART**

Addresses the question how to understand the idea of a modern art that rather than reject the historical, strove for a relationship to works that exclusively occupy the spaces of museums as representatives of "African Art".

**ARTH 421-10 COMIC MODERN: EUROPE AND THE U.S., CA. 1830-1930**

Histories and theories of the comic in the visual arts of the 19th and early 20th century in Europe and the United States.

**ARTH 435-80 FASHION**

Explores the role of dress in American art and society, since the rise of the couturier to the present.

**ARTH 445-0 COLUMNS, SKY AND COSMOS IN EAST ASIA**

Study East Asian architecture in connection with myths, legends, and histories of the region. Topics include the First Emperor's Netherworld, Great Wall, Barbarians, Tang-Dynasty Multiculturalism, the oldest wooden buildings in the world, Buddhist Temples, rock-cut caves, among others.

**ARTH 605-10 VISUAL CULTURE IN POMPEII**

Investigates diverse forms of visual communication integral to the fabric of Pompeii, including spectacles, banquets, commercial spaces, house decorations, and civic benefactions. Addresses issues of patronage, viewership, and self-representation.

**ARTH 611-10 COLLECTING NEW WORLDS**

Explores the afterlife of non-European images and artifacts, mainly those created in the Americas, after their integration into early modern European collections and representations.

**ARTH 616-10 CARAVAGGIO**

Critical readings of recent Caravaggio scholarship. Topics include: self-fashioning; rejected altarpieces; new technical studies; scandals in attributionism; autograph replicas; the late period (Naples, Malta, Sicily); Caravaggio in popular culture.

**ARTH 620-10 MODERN AND CONTEMPORARY ARTISTS AND HISTORIC ART**

Addresses the question how to understand the idea of a modern art that rather than reject the historical, strove for a relationship to works that exclusively occupy the spaces of museums as representatives of "African Art".

**ARTH 626-10 COMIC MODERN: EUROPE AND THE U.S., CA. 1830-1930**

Histories and theories of the comic in the visual arts of the 19th and early 20th century in Europe and the United States.

**ARTH 636-10 FASHION**

Explores the role of dress in American art and society, since the rise of the couturier to the present.

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**BHAN - Behavior & Nutrition**

**BHAN 267-10 YOGA FOR WELLNESS**

Gain experiential knowledge using the wellness practices of yoga to improve the quality of life through mind-body-spirit connection. Includes self-discovery and realization, group discussion, physical asana (poses) practice, pranayama (breathing) techniques and meditation.

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**BMEG - Biomechanical Engineering**

**BMEG 667-11 COMPUTATIONAL SYSTEMS BIOLOGY**

Computational/mathematical techniques for modeling & analysis of biological systems. Topics include properties of gene-regulatory & signaling networks; network reconstruction from data; stochastic modeling to study cellular variation & physiological modeling.

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**CHEG - Chemical Engineering**

**CHEG 667-16 RHEOLOGY & MICRORHEOLOGY**

Topics include fundamentals of rheological measurements; interpreting rheological data; and the rheological behavior of complex fluids, such as polymers, colloidal suspensions, and proteins.

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**CHIN - Chinese**

**CHIN 267-0 ART OF CHINESE CALLIGRAPHY**

Introduces students to the rich art of Chinese calligraphy. Learn the evolution of Chinese characters, Chinese philosophy, seal carving, and painting. Includes using brush pen to practice Chinese calligraphy and the basics of painting.

**CHIN 467-10 ADV RDGS IN CHIN CULT & LIT**

Introduces students to representative works in modern Chinese culture and literature. Focuses on: nationalism, modernization, gender politics, cultural movements and literary conventions. Students will obtain an advanced ability to read modern Chinese cultural and literary texts.

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## **CIEG – Civil & Environmental Engineering**

### **CIEG 467-10 RESEARCH METHODS & TOPICS IN WATER SCIENCE & POLICY**

Selected topics, field and laboratory methods to investigate the physical, chemical and biological aspects of water and the socioeconomic policy and regulatory issues associated with water. A semester project will address an important societal question relating to water in the Mid-Atlantic region. Co-req: PLSC667-013.

### **CIEG 467-14 CONTEMPORARY TOPICS IN TRANSPORTATION**

Includes transportation and safety; transportation and environment; transportation and sustainability; transportation and energy; transportation and economy; and transportation and human health.

### **CIEG 467-015 CIVIL & ENVIRONMENTAL ENGINEERING INTERNSHIP & PROFESSION**

This one-credit non-technical course is available to all sophomores, juniors and seniors in Civil & environmental Engineering (CEE). The main purpose for the course is to maximize the chances of our students in the department to find rewarding internship and externship programs.

### **CIEG 467-016 INTRODUCTION TO RAILROAD ENGINEERING**

Introduces railroad track structures and their major components; including functions and modes of degradation and failure. Addresses static and dynamic load environments and engineering design to effectively distribute loads throughout a structure.

### **CIEG 467-017 PRINCIPLES OF CONSTRUCTION MANAGEMENT**

Includes a study of management techniques to solve the unique problems associated with large scale infrastructure construction projects. Emphasizes the management of manpower, materials, money and machinery.

### **CIEG 467-018 TRAFFIC SAFETY & ENGINEERING**

Discusses theories regarding traffic and safety engineering including traffic flow theory and human factors. Includes a practical applications component that will assist in readying students for future employment as Traffic Engineers.

### **CIEG 667-10 RESEARCH METHODS & TOPICS IN WATER SCIENCE & POLICY**

Selected topics, field and laboratory methods to investigate the physical, chemical and biological aspects of water and the socioeconomic policy and regulatory issues associated with water. A semester project will address an important societal question relating to water in the Mid-Atlantic region.

### **CIEG 667-012 PRINCIPLES OF CONSTRUCTION MANAGEMENT**

Includes a study of management techniques to solve the unique problems associated with large scale infrastructure construction projects. Emphasizes the management of manpower, materials, money and machinery.

### **CIEG 667-14 CONTEMPORARY TOPICS IN TRANSPORTATION**

Includes transportation and safety; transportation and environment; transportation and sustainability; transportation and energy; transportation and economy; and transportation and human health.

### **CIEG 667-016 INTRODUCTION TO RAILROAD ENGINEERING**

Introduces railroad track structures and their major components; including functions and modes of degradation and failure. Addresses static and dynamic load environments and engineering design to effectively distribute loads throughout a structure.

#### **CIEG 667-017 TRAFFIC SAFETY & ENGINEERING**

Discusses theories regarding traffic and safety engineering including traffic flow theory and human factors. Includes a practical applications component that will assist in readying students for future employment as Traffic Engineers.

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#### **CISC – Computer & Information Science**

##### **CISC 367-10 FIELD EXPERIENCE IN TEACHING COMPUTING**

Provides field experience in teaching the principles of computing concepts in middle and high school classrooms through inquiry-based learning and project-based instruction, using best practices in teaching. Alternates meetings on campus and in the field.

##### **CISC 849-10 BIG DATA COMPUTATIONAL PHOTOGRAPHY & VIDEOS**

A convergence between computer vision, computer graphics, image processing and photography. In-Depth examination of a broad range of digital photography and video topics, including video capturing devices, novel camera models, non-traditional lighting and shading techniques, and high dynamic range.

##### **CISC 849-11 BIG DATA COMPUTER VISION**

Focuses on computer vision aspects of Big Data analytics, addressing advanced material in computer vision, graphics and visualization, and image processing as well as mathematical areas such as differential geometry. Utilizes applications involving Big Data, and computer vision techniques.

##### **CISC 879-10 TEXT ANALYSIS FOR SOFTWARE ENGINEERING**

Explores text retrieval and natural language analysis techniques to analyze software artifacts and solve software engineering problems. Examines text-based software engineering tools that help developers develop, understand, and maintain large software systems.

##### **CISC 889-10 STATISTICAL NATURAL LANGUAGE PROCESSING**

Data-driven methods in Natural Language Processing (NLP). Application of statistical methods and machine learning to solve NLP and text-mining problems.

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#### **COMM - Communication**

##### **COMM 343-10 PERSONALITY AND INTERACTION**

Explores how personality is linked to communication styles. Students will explore a number of concepts and measures of personality in order to understand their own personality profile and also problematic relationships in an effort to develop healthy communication skills for dealing with difficult people.

##### **COMM 418-50 SPORTS AND THE MEDIA**

Explores the relationships that exist between sports and the media (primarily television,) including the ways in which sports influences media and the ways media influences college and professional sports.

**COMM 418-10 BROADCAST PROGRAMMING**

Explains how broadcasters and cable programmers interpret Arbitron ratings for radio and Nielsen ratings for television. Includes the financial aspects of buying syndicated television programs.

**COMM 440-10 SOCIAL MEDIA AND INTERACTION**

Discusses the ways in which social media have transformed the way in which we communicate with one another, and the implications of these changes.

**COMM 442-10 RESEARCH PRACTICUM: GROUP COMMUNICATION**

Provides a hands-on experience in performing communication research. After an examination of relevant research, we will conduct an entire study, including data gathering and input, content and survey analyses, and research report writing.

**COMM 618-50 SPORTS AND THE MEDIA**

Explores the relationships that exist between sports and the media (primarily television,) including the ways in which sports influences media and the ways media influences college and professional sports.

**COMM 642-10 RESEARCH PRACTICUM: GROUP COMMUNICATION**

Provides a hands-on experience in performing communication research. After an examination of relevant research, we will conduct an entire study, including data gathering and input, content and survey analyses, and research report writing.

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**CRJU - Criminal Justice****CRJU 467-10 SURVEILLANCE & SOCIETY**

Explores surveillance technologies altering social life in the post-9/11 era, by mapping the complex ways that technologies and societies interact to produce security, fear, control, vulnerability, and/or empowerment.

**CRJU 467-80 WRONGFUL CONVICTIONS & THE LAW**

An analysis of the legal procedures that can cause and correct convictions of innocent people. Examines eyewitness errors, false confessions, government misconduct, flawed forensic evidence, post-conviction remedies, and compensation for the exonerated; from legal and social-science perspectives.

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**DANC - Dance****DANC 267-10 PERFORMANCE PRACTICUM IN DANCE**

Experimental learning in creating dance works within a rehearsal setting from inception to performance. Dancers work along with faculty choreographers and guest artists in preparation for a professional dance concert. Prerequisite: one of the following: DANC302, DANC303, or DANC304 or permission of instructor.

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**EDUC – Education****EDUC 367-10 FIELD EXPERIENCE IN TEACHING COMPUTING**

Provides field experience in teaching the principles of computing concepts in middle and high school classrooms through inquiry-based learning and project-based instruction, using best practices in teaching. Alternates meetings on campus and in the field.

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## **ELEG - Electrical Engineering**

### **ELEG 367-10 ELECTRICITY FROM SUNLIGHT**

An in-depth review of photovoltaic solar cells: how they are made, how they work, and the cost of the energy delivered. Set in the context of other renewable sources and the overall electrical energy system. Prereq: General science background in chemistry and physics at the high school level, and math up to and including calculus.

### **ELEG 467-12 OPTICAL FIBER COMMUNICATIONS**

Covers components & system design issues associated with fiber optics-based communications systems. Topics include propagation of light waves in fibers; coupling of light into fibers; review of sources & detectors; link performance analysis; & overall architecture issues.

### **ELEG 467-13 BASIC NUMERICAL ANALYSIS**

Covers basic numerical methods for engineering applications. Specific topics include solution of linear equations, numerical differentiation and integration and polynomial interpolation.

### **ELEG 467-10 ELECTRICAL ENGINEERING WIND ENGINEERING**

Covers electrical engineering principles in a short course for the non-engineer. Presents the principles of current, voltage, electric and magnetic fields, & passive circuit elements. Includes motors, generators, electric power distribution, and transformers.

### **ELEG 667-12 OPTICAL FIBER COMMUNICATIONS**

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### **ELEG 667-13 BASIC NUMERICAL ANALYSIS**

Covers basic numerical methods for engineering applications. Specific topics include solution of linear equations, numerical differentiation and integration and polynomial interpolation.

### **ELEG 667-11 COMPUTATIONAL SYSTEMS BIOLOGY**

Computational/mathematical techniques for modeling & analysis of biological systems. Topics include properties of gene-regulatory & signaling networks; network reconstruction from data; stochastic modeling to study cellular variation & physiological modeling.

### **ELEG 667-10 ELECTRICAL ENGINEERING WIND ENGINEERING**

Covers electrical engineering principles in a short course for the non-engineer. Presents the principles of current, voltage, electric and magnetic fields, & passive circuit elements. Includes motors, generators, electric power distribution, and transformers.

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## **FINC - Finance**

### **FINC 167-10 FINANCIAL LITERACY FOR PERSONAL SUCCESS**

Introduces wealth-building & risk management techniques that can lead to financial independence and a more enjoyable life. Learn saving, spending, investment, risk and tax strategies. Topics include credit management, insurance, stocks, bonds, mutual funds, housing and education costs.

**FINC 167-11 PORTFOLIO SIMULATION**

Introduction to investing in a portfolio using simulation.

**FINC 467-10 FINANCIAL ANALYTICS**

Introduces statistical techniques applied to financial data. Financial data analyzed may include time-series return data, cross-sectional data of firm characteristics, panel data, qualitative data, and transformed data. Students employ various statistical packages including Stata and/or SAS. Prereq: FINC314.

**FINC 867-10,11 FINANCIAL ANALYTICS**

Introduces statistical techniques applied to financial data. Financial data analyzed may include time-series return data, cross-sectional data of firm characteristics, panel data, qualitative data, and transformed data. Students employ various statistical packages including Stata and/or SAS. Prereq: FINC314

**FINC 867-50 PORTFOLIO ASSET ANALYSIS**

Analysis of how to match attributes of assets of portfolios to investor preferences. Prereq: FINC850

**FIND 867-051 TRADING & FINANCIAL MARKET STRUCTURE**

Understanding how financial markets operate and what traders do. Introduces the theory and practice of financial trading on exchanges, in upstairs dealer networks, and via alternative trading systems.

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**FLLT - Foreign Languages & Literature**

**FLLT 360-80 THE PRINCESS DIARIES**

Explore the experience and influence of French queens and princesses from the Renaissance to the Revolution. Includes fiction and autobiographical writing by the princess themselves, literary portrayals, theater, official portraiture, fairy tales and film.

**FLLT 467-0 CHINESE CULTURE**

Explores the development and significance of social and cultural practices and imaginations that produce and shape Chinese communities and identities. Engages philosophy, politics, poetry, autobiography, language, posters, film and more.

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**GEOL – Geology**

**GEOL 467/667-10 GEOMICROBIOLOGY**

Problem-based exploration of interface between geological and biological processes. Focused on effects of microorganisms and Earth's chemistry. May include biomineralization, origin and evolution of life, microbial weathering and rock formation, environmental problems.

**GEOL 667-013 HYDROGEOLOGY SEMINAR**

Explore the foundations of modern Hydrogeology by analyzing classic papers that advanced the field toward its current state-of-the-art. Topics vary from physical hydrogeology to geochemical aspects, including groundwater age dating and tracers. A course/background in basic Hydrogeology is required.



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**GRMN - German****GRMN 467-10 ADVANCED GRAMMAR IN ACTION**

Provides the opportunity to perfect active and imaginative use of the German language. Review and practice advanced grammar structures in meaningful, communicative contexts in both, oral and written form with emphasis on stylistics.

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**HDFS - Human Development & Family Studies****HDFS 667-11 ENHANCING QUALITY IN EARLY CARE AND EDUCATION PROGRAMS**

Examination of current conceptualizations of quality in early childhood education. Review of empirical evidence on quality improvement strategies, including state rating systems, professional development, and technical assistance.

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**HLPR - Health Promotion****HLPR 667-50 APPLIED DATA ANALYSIS**

Overview of the descriptive and inferential statistics needed to interpret health related data and apply the statistics to analyze and evaluate health-related literature and research in the core disciplines of public health including: social and behavioral science, health management and policy, and

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**JAPN - Japanese****JAPN 367-70 INTERMEDIATE JAPANESE**

Emphasises overall Japanese language skills, but mostly reading and writing at the intermediate level. Co-req: JAPN306.

**JAPN 467-70 ADVANCED JAPANESE**

This course is for advanced students and focuses on all four language skills of listening, speaking, reading, and writing through TV, movies, newspapers, and other authentic materials. Co-req: JAPN455.

**JAPN 467-71 ENGLISH JAPANESE TRANSLATION**

Requires students to translate mainly from English to Japanese and understand the difference between the two languages.

**JAPN 467-73 JAPANESE-CHINESE TRANSLATION**

For Chinese speakers who have an advance level of Japanese language skill. Investigate the differences and contrasts between Japanese-Chinese languages. Using practical material, explain which translation is most appropriate for transmitting information.

**JAPN 467-74 KANJI CONSOLIDATION**

Aimed mainly for students whose first language make use of Chinese characters (but not exclusively), or those who have built reasonable foundation of Kanji to learn effectively in intermediate level. Provides opportunities to learn and review Kanji introduced in elementary level classes.

**JAPN 467-75 KANJI FOUNDATION**

Aimed mainly for students whose first language DOES NOT make use of Chinese characters (but not exclusively), or those who have not yet built reasonable foundation of Kanji to learn effectively in

intermediate level. Provides opportunities to learn and review Kanji introduced in elementary level classes.

**JAPN 467-76 LISTENING COMPREHENSION**

Advanced Japanese course designed to improve students listening and speaking skills for conversational Japanese. Learn useful expressions to be used in everyday life, and speech styles appropriate for formal and informal situations. Practice conversations using the learned expressions and phrases.

**JAPN 467-77 PRONUNCIATION**

Improves accuracy of pronunciation and fluency in conversational Japanese. Course conducted in Japanese.

**JAPN 467-78 READING COMPREHENSION I**

Features practice reading pre-intermediate and intermediate level materials about Japanese culture and society. Co-req: JAPN306 and JAPN367.

**JAPN 467-79 READING COMPREHENSION II**

Features practice reading intermediate level materials about Japanese culture and society. Co-req: JAPN401 and JAPN405.

**JAPN 467-90 READING COMPREHENSION III**

Features practice reading pre-advanced level materials about Japanese culture and society. Co-req: JAPN455 and JAPN467

**JAPN 467-91 Higher-INTERMEDIATE JAPANESE**

Designed to improve overall Japanese proficiency in the four language skills of listening, speaking, reading, and writing, with primary emphasis on reading. Co-req: JAPN455.

**JAPN 467-92 SPEAKING**

Practice how to choose appropriate speech styles in different situations.

**JAPN 467-93 WRITING**

Designed for students who have advanced level proficiency in Japanese and want to improve their writing skills. Focuses on the development of academic writing skills. Learn basic rules and styles for academic paper writing and write papers on a wide range of topics.

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**MAST – Marine Studies**

**MAST 667-16 RENEWABLE ENERGY LAW, REGULATION & THE ENVIRONMENT**

Introduction to the regulation of renewable energy electricity generation, transmission and integration. Focuses on large-scale renewable energy sources such as wind, hydroelectric and marine renewable.

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**MATH - Japanese**

**MATH 267-11 PRECALCULUS AND CALCULUS A: AN INTEGRATED APPROACH**

The first of a two course, experimental sequence to teach topics from Math 117 and Math 241 using an innovative integrative approach. Prereq: Level V placement.

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## **MCST - Material Culture Studies**

### **MCST 435-10 FASHION**

Explores the role of dress in American art and society, since the rise of the couturier to the present.

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## **MEEG - Mechanical Engineering**

### **MEEG 867-10 MUSCULOSKELETAL SIMULATION**

Develop knowledge and skills to generate dynamic models, analyses, and simulations of the human musculoskeletal system for different types of movement. Build and analyze computer simulations implemented on common software platforms to gain insight into movement biomechanics and control.

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## **MUSC - Music**

### **MUSC 0-10 FUNDAMENTALS OF MUSIC REVIEW**

Learn the basic materials needed to begin the core music theory sequence (MUSC195 Harmony I), including pitch-register naming, rhythm and meter, key signatures, scales, modes, intervals, triads, and seventh chords

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## **NSCI - Neuroscience**

### **NSCI 667-10 COGNITIVE NEUROIMAGING**

Explores the use of neuroimaging methods (especially function magnetic resonance imaging, or fMRI) to understand the neural underpinnings of cognition. Surveys common neuroimaging methods and major findings from neuroimaging studies of perception, learning and memory, decision-making, and language.

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## **NTDT - Nutrition & Dietetics**

### **NTDT 467-10 NUTRITION PEER MENTORING**

Focus on developing skills in academic advising/mentoring for peers. Experiences under supervision of nutrition faculty member.

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## **PHYS - Physics**

### **PHYS 667-10 ULTRAFAST SPECTROSCOPY**

Focuses on non-linear and ultrafast optics with application to ultrafast spectroscopy. Reviews laser basics and Maxwell's equation. Discusses the generation and characterization of ultrashort laser pulses.

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## **PLSC - Plant & Soil Sciences**

### **PLSC 167-10 SOILS AND CIVILIZATION**

Basic introduction to soil resources. Historical examples of the critical role of soils and associated water resources on the sustainability of human civilization. Emphasizes viability of present-day societies in relation to their stewardship of soils.

### **PLSC 267-10 AG IN ACTION**

Explores career opportunities in the fields of plant and soil sciences. Learn firsthand from industry professionals through weekly field trips.

**PLSC 367-10 WEED SCIENCE: PRINCIPLES AND APPLICATIONS**

An introduction to weed science, focusing on applied weed management strategies. Includes knowledge about weeds including weed ID, herbicide applications, background on cultural control methods and the importance of biotechnology in weed management and resistance.

**PLSC 667-12 ADVANCED PLANT PATHOLOGY**

A wide range of areas in plant pathology at the advanced level and may include aspects of nematology, plant virology, mycology, epidemiology, plant bacteriology, plant disease management, epidemiology, molecular plant microbe interactions, genetics of disease resistance and bioinformatics.

**PLSC 667-13 FIELD METHODS AND ANALYSIS**

Gain an understanding of instrumentation, measurements & field methods to track ecological & chemical processes across the soil-plant-atmosphere-continuum. Includes a strong field component along with lab analytical techniques of samples. Explores principles of environmental sampling and analysis.

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**PSYC - Psychology**

**PSYC 467-10 APPLIED BEHAVIORAL ANALYSIS**

Explores the use of both operant and respondent conditioning techniques to bring about improvement in human behavior. Details the implementation and assessment of treatment programs, as well as the importance of direct observation and measurement of behavior. Focus is on practical applications.

**PSYC 667-10 COGNITIVE NEUROIMAGING**

Explores the use of neuroimaging methods (especially function magnetic resonance imaging, or fMRI) to understand the neural underpinnings of cognition. Surveys common neuroimaging methods and major findings from neuroimaging studies of perception, learning and memory, decision-making, and language.

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**SOCI - Sociology**

**SOCI 367-10 CRIMINAL JUSTICE AND MENTAL HEALTH**

The participation-based course explores connections between mental illness and criminal justice involvement: introduction to concepts in mental health, examination of the impact of mental illness at each stage of the justice system. CRJU 110, 201, 202 or 203 recommended.

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**SPAN - Spanish**

**SPAN 367-70 SPEAKING & WRITING SKILLS 5&6**

Fundamental linguistic support in areas of difficulties the student may have at this level. Enables student to understand and express him/herself in a variety of situations which may be unfamiliar & which require exchanging informational and personal opinions using complex linguistic structures.

**SPAN 467-74 SPANISH GRAMMAR: SUPERIOR LEVEL**

Includes the main points of those remaining difficulties which a student may encounter in the latter part of an advanced learning phase and the best way to solve them, within a pragmatic tone.

**SPAN 467-75 SPEAKING & WRITING SKILLS 7&8**

Fundamental linguistic support in areas of difficulties the student may have at this level. Enables student to understand and express him/herself in a variety of situations which may be unfamiliar & which require exchanging informational and personal opinions using complex linguistic structures.

**SPAN 467-70 ENG-SPAN TRANSLATION:GEN THEME**

Deals with the new approaches to language learning that view the activities of translation and interpreting as a tool for the development of communicative ability and mediation skills.

**SPAN 475-10 MEDIA-SAVVY POPULISM**

Examines the relationship between populism and media in modern Latin America. Examines film, essays, speeches, fiction, television, visual arts, online production, and performance, to show how populist movements have used media to transform the political environment of the region today.

**SPAN 675-10 MEDIA-SAVVY POPULISM**

Examines the relationship between populism and media in modern Latin America. Examines film, essays, speeches, fiction, television, visual arts, online production, and performance, to show how populist movements have used media to transform the political environment of the region today.

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**UAPP - Urban Affairs & Public Policy**

**UAPP 267-10 POLITICS & ADVOCACY IN CYBERSPACE**

Discusses origins and evolution of on-line political advocacy and political campaigning via Internet and other forms of technology. Examines use of technology in efforts to create positive policy change. Content reflects domestic and international development.

**UAPP 367-10 INTRODUCTION OF HEALTH POLICY**

Provides overview of the U.S. health care system, its components, and the policy challenges created by the organization of the system. Uses analytic (graphical analysis, basic data analysis) to examine issues related to health, disease, and systems for delivering health care. Prereq: ECON151

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**WOMS - Women's Studies**

**WOMS 332-10 MADE IN THE USA: FROM PRINT TO POPULAR CULTURE**

Explores contemporary works by "women of color" living in the U.S.--that is women whose heritage has been categorized as the "Third World." Considers cultural (racial/ethnic) identification, the role of oral traditions and their transmissions and transformations in print culture, stylistic experimentation/innovations, the use of language, women as individuals and as members of a community. Focuses on the interconnections between women of color and transnational feminisms.