

# Fall 2021 Supplemental Course Descriptions

Updated 5/10/2021

## Animal and Food Sciences

### **ANFS 167-10 PANDEMIC PREPAREDNESS & ONE HEALTH**

Prepares Blue Hens for the next pandemic, by providing all students, regardless of background, with the critical tools and skills to understand, critically evaluate, survive and lead during the current and next global pandemic

### **ANFS 267-11 BASICS OF CHEESE PRODUCTION**

Fundamental principles of cheesemaking beginning with milk composition and pasteurization. Includes ripening, coagulation, aging, packaging, sanitation, and regulatory requirements. Beginner's course offering a mix of

### **ANFS 367-10 FOOD SPECS AND REGS: SENSORY EVALUATION & FOOD REGULATIONS**

An introduction to Sensory Evaluation and Food Regulations focusing on human sensory functions, methods for evaluating and measuring sensory attributes of food and on regulations as they pertain to food labelling, food standards and food quality assurance.

### **ANFS 420-10 TPCS IN EQUINE SCIENCE: INTRODUCTION TO EQUINE THERAPEUTICS**

Introduces equine assisted therapeutics for a wide range of physical, emotional, and developmental disabilities. Hands-on experiences include evaluating equine partners, understanding therapeutic biomechanics, adaptive equipment, and the roles of instructors and volunteers.

### **ANFS 467-10 EVOLUTIONARY MEDICINE**

Reviews the fundamental principles of evolution and discusses how evolution impacts the health and disease susceptibility of various animal species.

## Art History

### **ARTH 303-10, 80 ART & RELIGION IN THE IBERIAN WORLD**

Studies a broad range of religious monuments and artifacts created in the Iberian World c.1492-1800, taking into consideration the cultural contexts in which they were produced, and the confluence of European, Islamic, African and Native American traditions in Spain, Portugal and the Americas.

### **ARTH 433-80 AESTHETICS AND ORIENTALISM: BETWEEN CULTURAL RELATIVISM & POSTCOLONIAL**

Considers whether 'the beautiful' is a product of inter-subjective aesthetic common sense, or a sum of cultural specificities couched in Western languages. Explores this question through art history and theory of aesthetics. Navigates postcolonial theories to transcend the East-West divide.

### **ARTH 602-10 CURATING NATIVE ART: CONTEMPORARY PUEBLO POTTERY**

Indigenous methods, object research, and curatorial training toward an exhibition of Pueblo pottery from the exceptional private Roberson and University Museums collections in Old College Gallery, Spring 2022. Includes interviewing artists, community outreach, and visits from Native art specialists.

### **ARTH 620-11 ENTANGLEMENTS WITH WHITENESS IN AFRICAN & AMERICAN ART**

Explores the ways in which Long 20th-century art of Africa, the Caribbean, and the three Americas are entangled, specifically around whiteness as property. Considers how representations of this relation are unlike Europe-

### **ARTH 633-10 AESTHETICS AND ORIENTALISM: BETWEEN CULTURAL RELATIVISM & POSTCOLONIAL**

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### **ARTH 635-10 ART & MATERIAL CULTURE IN EARLY PHILADELPHIA**

The material and urban worlds of fine arts, decorative arts and design in Philadelphia 1700-1900. Artistic practice, education, collecting and display during the city's growth as an Atlantic port and center of politics, trade, industry, and science. Funded field trips and collections research is required.

## **Asian Studies**

### **ASIA 367-10 K-POP, K-WAVE, & GLOBAL ASIA**

Investigates the transnational phenomenon of South Korean K-wave throughout Asia, particularly through K-pop and K-drama. Discussions include K-wave's impact on Asia's pop cultural landscape and local cultures, the rise of migration, and the reshaping of Asian identity.

## **Chemistry**

### **CHEM 667-11 ADVANCED ORGANIC CHEMISTRY: STRUCTURE & MECHANISM**

Structure and reactions of organic molecules with emphasis on reaction mechanisms.

### **CHEM 667-13 EXPERIMENTAL ORGANIC CHEMISTRY**

Intended for incoming graduate students. Includes advanced laboratory techniques in organic chemistry including large and small scale synthesis, air sensitive technique, crystallization, characterization using NMR, GC, HPLC, and mass spectrometry, and chemical safety.

## **Chinese**

### **CHIN 467-10, 80 ADV TPCS: ADVANCED CONVERSATIONAL CHINESE**

Designed for those who have studied Chinese as a foreign language at the intermediate-high level for at least a year. Includes understanding and speaking Chinese in a formal situation on subjects such as culture, society,

## **Computer and Information Sciences**

### **CISC 367-11 EQUITY & INCLUSION IN COMPUTING INNOVATIONS**

Explores multi-directional relationships between computing innovations and the complex social contexts within which they must operate. Focuses on software accountability for upholding social and legal expectations, decolonized Human-Computer Interaction practices, and social implications of AI systems

### **CISC 449-10 TOPICS IN COMPUTER APPLICATIONS: INTERNET SECURITY WITH MOBILE SYSTEMS**

Covers the principles and practice of Internet security, with a focus on understanding attack paths/countermeasures for mobile and IoT systems. Includes hands-on experience, reading/lecture/labs, research paper discussion, and interactive lectures. Students conduct research on one topic.

### **CISC 830-10 ADVANCED TOPICS IN ALGORITHMS & COMPLEXITY THEORY**

Advanced techniques for the design and analysis of algorithms. Explores a variety of applications, including network design, algorithms in machine learning, randomized algorithms, probabilistic analysis/concentration inequalities, competitive analysis, eigenvalues, linear/semi-definite programming.

### **CISC 849-11 GAME THEORY FOR DISTRIBUTED SYSTEMS**

Provides effective tools to understand complicated interactions among many decision-makers. surveyS recent research between game theory and distributed systems, including Clouds, IoTs, CPS, and Federated Learning. Intro to key concepts of game theory, its applications, and open research.

## **Communications**

### **COMM 337-50 ON THE RECORD - JOURNALISM FILMS**

Companion course to National Agenda. Explores films on journalism and how Hollywood's record of the first draft of history reflects on America. Students attend film viewings and National Agenda events.

### **COMM 418-10 SPORTS MEDIA AND COMMUNICATION**

Provides students with a foundational knowledge of issues in sports from the perspective of media communication. Focusses on both theoretical concepts and practical applications. Explores topics like mass media, social media, gender, race, technology, and emerging sports.

### **COMM 440-10 STRESS & COPING THROUGH COMMUNICATION**

Introduces students to contemplative practices that may help alleviate strife within relationships. Acquaints and engages students in numerous contemplative practices. Draws from scholarly research to reflect upon their

### **COMM 442-10 COMMUNICATION & SOCIAL PROTEST**

Explores the communication strategies, political issues, and public arguments of social protest and social movements around the world. Examines propaganda, demagoguery, and dissent in civil society, including the strategies and tactics of leaders, supports, and opponents of social movements.

### **COMM 447-10 REFLECTING AMERICA**

Explores how this historic era of political divides, social movements, and economic upheavals fueled by the pandemic and politics is redefining America. Celebrates the diversity of our nation with perspectives from political insiders, journalists, authors, and media figures.

### **COMM 633-10 POLITICAL MESSAGES & EFFECTS**

Examines the content of messages about political campaigns and policy issues along with message effects on attitudes and behavior. Topics include media agenda-setting, framing, priming, and persuasion; misinformation, knowledge, and perceptions; interpersonal communication and politics.

## **Computer Engineering**

### **CPEG 467-10 COMPUTATIONAL & DATA-INTENSIVE RESEARCH PLATFORMS & APPLICATIONS**

Introductory course for students conducting computational and data-intensive research in all disciplines, providing an overview of relevant computer systems hardware, software and applications.

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Introductory course for students conducting computational and data-intensive research in all disciplines, providing an overview of relevant computer systems hardware, software and applications.

### **Criminal Justice**

#### **CRJU 467-10 CRITICAL ISSUES IN POLICING**

Includes police procedures and techniques. Connects academy experience and knowledge to critical policing issues. Requires participation in the Citizen Police Academy hosted by the UD police. Discusses articles related

### **Early American Culture**

#### **EAMC 606-10 CITIES ON A HILL: MATERIAL CULTURE IN AMERICA'S COMMUNAL UTOPIAS**

Examines communal utopias that experimented with new ideas of religion, sexuality, economics, craftsmanship, sustainability, society, and culture; study in Winterthur Museum's object and library collections, community fieldwork, and a public humanities practicum.

### **Electrical Engineering**

#### **ELEG 467-12 APPLIED DIGITAL SIGNAL PROCESSING**

Covers a systematic review of the basic concepts and methodologies for digital signal processing, based on fundamental principles. Provides hand on experience to develop a practical foundation that can be used by students, researchers, and practicing engineers as the basis for further study and research in this field using real-world data obtained from various science and engineering problems. Prereq: ELEG305.

#### **ELEG 667-12 APPLIED DIGITAL SIGNAL PROCESSING**

Covers a systematic review of the basic concepts and methodologies for digital signal processing, based on fundamental principles. Provides hand on experience to develop a practical foundation that can be used by students, researchers, and practicing engineers as the basis for further study and research in this field using real-world data obtained from various science and engineering problems. Prereq: ELEG305.

### **English**

#### **ENGL 606-10 CITIES ON A HILL: MATERIAL CULTURE IN AMERICA'S COMMUNAL UTOPIAS**

Examines communal utopias that experimented with new ideas of religion, sexuality, economics, craftsmanship, sustainability, society, and culture; study in Winterthur Museum's object and library collections, community fieldwork, and a public humanities practicum.

### **Finance**

#### **FINC 467-10 FINTECH & FINANCE DATA SCIENCE**

Studies FINTEC, new business that exploits computing and connectivity. Introduces related machine learning methods. STUDIES

Pre-requisite: FINC311, FINC312, FINC314

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### **Geology**

#### **GEOL 467-10 INTRODUCTION TO SEISMOLOGY**

Topics ranging from generation of seismic waves via earthquakes and faulting processes and propagation and interpretation of resultant seismic waves; discussion of P and S waves, surface waves and free oscillations; seismic exploration, hazard, and interpretation.

#### **GEOL 467-12 FIELD AND ANALYTICAL GEOCHEMISTRY METHODS**

Covers a range of common field and laboratory methods in geochemistry. Includes field measurements; geochemical sample collection; laboratory analyses; and geochemical calculations pertaining to laboratory

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Topics ranging from generation of seismic waves via earthquakes and faulting processes and propagation and interpretation of resultant seismic waves; discussion of P and S waves, surface waves and free oscillations; seismic exploration, hazard, and interpretation.

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### **Human Development & Family Studies**

#### **HDFS 867-10 EARLY CARE AND EDUCATION POLICY**

Discussion of topics related to early care and education policy, including program evaluation, quality, professional development, and long-term effects of programs on children and families.

### **History**

#### **HIST 268-15 SEMINAR: ORAL HISTORY: AFRICAN AMERICANS & THE UNIVERSITY OF DELAWARE**

Trains students to use oral history interviews to document the historical experiences of African American employees and students at the University of Delaware.

#### **HIST 336-11 TPCS IN AMERICAN HISTORY: LATINOS IN THE UNITED STATES**

Explores the background, migration, assimilation, and status of 6 Latino subgroups: Cubans, Puerto Ricans, Dominicans, Mexicans, Central Americans, and South Americans. Provides a broad perspective on their social and cultural lives and assesses the impact that they will make in the US as the fastest growing minority.

#### **HIST 336-11 TPCS IN LATIN AMERICAN HISTORY: LATINOS IN THE UNITED STATES**

Explores the background, migration, assimilation, and status of 6 Latino subgroups: Cubans, Puerto Ricans, Dominicans, Mexicans, Central Americans, and South Americans. Provides a broad perspective on their social and cultural lives and assesses the impact that they will make in the US as the fastest growing minority.

### **HIST 337-12 TOPICS IN AMERICAN HISTORY: AMERICAN ASSASSINS**

Examines assassinations of leading political and social figures in the United States, and the events, people and circumstances surrounding them.

### **HIST 337-13 TOPICS IN AMERICAN HISTORY: THE LONG HISTORY OF ANTI-ASIAN RACISM IN AMERICA**

Examines the historical roots of anti-Asian racism, including issues related to race relations, gender, immigration, and citizenship. Analyzes stereotyping, scapegoating and discrimination of Asian Americans. Focuses on 1880s

### **HIST 460-10 RACE & INEQUALITY IN DELAWARE**

Examines the history of UD in the age of enslavement and emancipation. Conducts archival research to explore UD's historical ties to slavery and its relationship to communities of people of color in the 19th century. Hosts a public conversation about the legacies of social injustice.

### **HIST 606-10 CITIES ON A HILL: MATERIAL CULTURE IN AMERICA'S COMMUNAL UTOPIAS**

Examines communal utopias that experimented with new ideas of religion, sexuality, economics, craftsmanship, sustainability, society, and culture; study in Winterthur Museum's object and library collections, community fieldwork, and a public humanities practicum.

## **Hospitality**

### **HOSP 367-10 SEMINAR IN HOSPITALITY FINANCE**

Introduces fundamental techniques and concepts related to the financial management of business firms. Topics include the time value of money, valuation, capital budgeting, working capital management, cost of capital, capital structure analysis, short and long term financing.

## **Italian**

### **ITAL 355-10, 80 RESTART: FROM DARK TO LIGHT**

Includes readings of contemporary authors like Issaa, Mazzucco, Morante and Parrella. Examines the darkness of the character's lives and accompanies them on their path towards the light. Considers immigration, racism and

## **Leadership**

### **LEAD 337-50 ON THE RECORD - JOURNALISM FILMS**

Companion course to National Agenda. Explores films on journalism and how Hollywood's record of the first draft of history reflects on America. Students attend film viewings and National Agenda events.

## **Languages, Literature & Culture**

### **LLCU 420-10,80 TPCS IN ITALIAN LITERATURE: TERRORISM IN ITALIAN CINEMA**

Examines the representation of terrorism in the history of Italian film. Exposes a selection of movies organized around three intertwined critical approaches: historical, cinematic and cultural.

### **LLCU 620-10 TPCS IN ITALIAN LITERATURE: TERRORISM IN ITALIAN CINEMA**

Examines the representation of terrorism in the history of Italian film. Exposes a selection of movies organized around three intertwined critical approaches: historical, cinematic and cultural.

## **Liberal Studies**

### **MALS 617-10 THE ARTS IN CONTEXT: IDENTITY, LITERATURE & SOCIETY**

INSIDE/OUT class focusing on deep reading of literature, investigating the role of identity vis-a-vis authorship, readership and central characters, and uses literature as a window into social views of identity. Explores themes of voice, agency, cultural difference and social structure.

### **MALS 667-14 AFRICAN AMERICAN WRITERS**

Explore works by African American writers through fiction, non-fiction, film, drama, poetry, and song. Experience, share and connect with a broad scope of writers, some of them Delawareans, as they depict lived experiences and interpret social, political, and cultural realities.

## **Marine Studies**

### **MAST 467-10 INTRO TO ARTIC OCEANOGRAPHY**

Provides a set of quantitative tools to confidently argue polar science issues that relate to ongoing public climate

### **MAST 467-13 COMPLEX SYSTEMS ANALYSIS**

This Course Offers Data Analysis Approaches To Understand Nonlinear, Spatial, And Adaptive Natural And

### **MAST 467-21 MARINE ECOSYSTEM MODELING**

An introduction to process-oriented ecosystem models to tackle contemporary environmental issues in marine research, with focuses on integration between biological principles and numerical methods to evaluate ecosystem interactions, and

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## **Materials Science Engineering**

### **MSEG 667-22 ORGANIC ELECTRONICS: DESIGN, SYNTHESIS, & APPLICATIONS**

Provides the principles of organic semiconducting and conducting materials (small molecules and piconjugated polymers). Describes the design, synthesis, and applications of organic electronics for energy, biology and

## **Museum Studies**

### **MSST 606-10 CITIES ON A HILL: MATERIAL CULTURE IN AMERICA'S COMMUNAL UTOPIAS**

Examines communal utopias that experimented with new ideas of religion, sexuality, economics, craftsmanship, sustainability, society, and culture; study in Winterthur Museum's object and library collections, community fieldwork, and a public humanities practicum.

## **Music**

### **MUSC 438-10 DJEMBE MUSIC OF WEST AFRICA**

Focuses on the djembe and dun dun music of West Africa. Taught through oral tradition, students are encouraged to memorize songs, rhythms, and information that is presented. Includes insight into the cultures

### **MUSC 611-10 FACING GENIUS: HOW A SIMPLE WORD CHANGES THE WAY WE LOOK AT OUR MUSICAL WORLD**

An examination of the concept of 'genius' in Western music from the Renaissance to today. Considers what qualities were seen as signs of genius, and how did it affected a composer's reception, etc. Studies a variety of composers to test the concepts' usefulness both historically and in the present day.

### **MUSC 639-11 DJEMBE MUSIC OF WEST AFRICA**

Focuses on the djembe and dun dun music of West Africa. Taught through oral tradition, students are encouraged to memorize songs, rhythms, and information that is presented. Includes insight into the cultures

### **MUSC 667-11 HISTORICAL PERSPECTIVES ON PERFORMANCE PRACTICE**

Integrates theory and practice, offering an introduction to Historically Informed Performance through the (applied) study of different historical texts and other resources (i.e., manuscripts, early editions, treatises, contemporary anecdotes, reviews, accounts, early recordings).

### **MUSC 676-10 CREATIVITY IN MUSIC**

Application of creativity-based theories and perspectives to the role that creativity plays in all forms of music making and generation, performance, teaching, and learning. Appropriate course for all MM students.

### **MUSC 695-10 VARIATION FORMS**

Examines the topic of variations from several perspectives, including performance, analysis, and historical

## **Philosophy**

### **PHIL 367-10, 80 CHRISTIAN PHILOSOPHY**

Explores some of the most philosophically difficult aspects of traditional Christian doctrine such as the Trinity, Original Sin, the Incarnation, and the thought that the afterlife involves a bodily resurrection.

### **PHIL 465-10, 80 FREE WILL**

Explores the characteristics of human agency required for free will and moral responsibility, and on whether we could have those characteristics, given what we know about ourselves and our world.

### **PHIL 667-10 ETHICS IN DATA SCIENCE & ARTIFICIAL INTELLIGENCE**

Seminar on societal impacts of data gathering and analysis, with applications in health sciences, disaster science, policing, and e-commerce. Participation-based format. Topics include: privacy, algorithmic biases and data incompleteness, profiling, safety, and informed consent.

### **Physical Therapy**

### **PHYT 867-10 COMMUNICATION & CULTURE IN REHABILITATION RESEARCH**

Elevates students' knowledge and skill in the effective verbal, nonverbal and written communication in their area of rehabilitation research. Students build a personalized process focused on becoming a flexible/adaptive/clear/compelling communicator in the service of science.

### **Plant and Soil Sciences**

### **PLSC 367-10 HYDROPONIC FOOD PRODUCTION**

Explores the past, present, and future of hydroponics, how hydroponics compares to soil production, mechanisms and designs of various hydroponic systems, hydroponic crop production in greenhouses and vertical farms, nutrient solution chemistry and management, and commercial hydroponic businesses.

### **PLSC 367-20L HYDROPONIC FOOD PRODUCTION LAB**

Laboratory supplement to Hydroponic Food Production lecture. In a greenhouse environment, students build hydroponic systems, grow a variety of hydroponic food crops, conduct hydroponic experiments, and participate

### **POSC 167-10 POLITICS AND YOU**

Introduction to the fields and the department of Political Science and International Relations. Explores all the majors and minors offered in the department, student organizations on campus, and resources to be successful. Includes research, current events and politics on campus.

### **Political Science & International Relations**

### **POSC 337-50 ON THE RECORD - JOURNALISM FILMS**

Companion course to National Agenda. Explores films on journalism and how Hollywood's record of the first draft of history reflects on America. Students attend film viewings and National Agenda events.

### **POSC 447-10 REFLECTING AMERICA**

Explores how this historic era of political divides, social movements, and economic upheavals fueled by the pandemic and politics is redefining America. Celebrates the diversity of our nation with perspectives from political insiders, journalists, authors, and media figures.

### **POSC 867-13 PREJUDICE, STEREOTYPING, & DISCRIMINATION**

Examines stereotyping, prejudice, discrimination, and minority experience from a social psychological perspective. Highlights the impact of self-relevant identities and political ideologies from a scientific perspective.

## **Psychology**

### **PSYC 442-10 COMMUNICATION & SOCIAL PROTEST**

Explores the communication strategies, political issues, and public arguments of social protest and social movements around the world. Examines propaganda, demagoguery, and dissent in civil society, including the strategies and tactics of leaders, supporters, and opponents of social movements.

### **PSYC 467-11 SOCIAL STATUS**

Advanced level introduction to psychological and neuroscience investigations of social status. Adopting a broad perspective, surveys expanding social psychological and neuroscience literatures, exploring how social status shapes various aspects of our lives.

### **PSYC 867-11 MOTIVATION & EMOTION**

Focuses on the theoretical, empirical, and biological underpinnings of emotion and motivation. Considers fundamentals of emotion and motivation, how they differ, and how they are structured. Covers essential constructs, development, and contextual factors.

### **PSYC 867-13 PREJUDICE, STEREOTYPING, & DISCRIMINATION**

Examines stereotyping, prejudice, discrimination, and minority experience from a social psychological perspective. Highlights the impact of self-relevant identities and political ideologies from a scientific perspective.

## **Sociology**

### **SOCI 367-10 SOCIOLOGY OF ORGANIZATIONS**

Introduces key concepts in the sociology of organizations, such as organizational forms, processes, and change. Using in-depth cases, students will analyze organizations from corporations to NGOs to startups.

### **SOCI 467-10 MARX & MARXISM**

A balanced examination of the thought of Karl Marx and its continuing influence today, focusing on his ideas on history, economics, and social relations. Includes his relevance for the 21st Century world as well as criticisms

## **Spanish**

### **SPAN 475-10, 80 SEX & GENDER IN LATIN AMERICA: HISPANIC CULTURE & CIVILIZATION**

Gender, sexuality and power in Latin American cultures: pre-Columbian sexualities, sexuality and the Spanish Inquisition, witches and midwives, gender and dress, machismo and Marianismo, prostitution, drag cultures, sex tourism, fashion, sports, beauty, gender in reggaetón, trap and urbano.

### **SPAN 675-10 SEX & GENDER IN LATIN AMERICA: HISPANIC CULTURE & CIVILIZATION**

Gender, sexuality and power in Latin American cultures: pre-Columbian sexualities, sexuality and the Spanish Inquisition, witches and midwives, gender and dress, machismo and Marianismo, prostitution, drag cultures, sex tourism, fashion, sports, beauty, gender in reggaetón, trap and urbano.

## **Urban Affairs & Public Policy**

### **UAPP 337-50 ON THE RECORD - JOURNALISM FILMS**

Companion course to National Agenda. Explores films on journalism and how Hollywood's record of the first draft of history reflects on America. Students attend film viewings and National Agenda events.

### **UAPP 667-10 ETHICS IN DATA SCIENCE & ARTIFICIAL INTELLIGENCE**

Seminar on societal impacts of data gathering and analysis, with applications in health sciences, disaster science, policing, and e-commerce. Participation-based format. Topics include: privacy, algorithmic biases and data incompleteness, profiling, safety, and informed consent.

## **Women's Studies**

### **WOMS 442-10 COMMUNICATION & SOCIAL PROTEST**

Explores the communication strategies, political issues, and public arguments of social protest and social movements around the world. Examines propaganda, demagoguery, and dissent in civil society, including the strategies and tactics of leaders, supports, and opponents of social movements.