



**Community and
Regional Affairs**
PRINCETON
UNIVERSITY

Community Auditing Program

Fall 2021 Classes

**Princeton University
Office of Community and Regional Affairs
Community Auditing Program (CAP)
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Registration Information

Registration guidelines: On Day 1 and Day 2 auditors are limited to one (1) course. Day 3 is limited to Auditor Only courses. Auditors may register for a total of 1 University courses plus the Auditor Only courses.

Wednesday, August 25, 2021 for Day 1 (Princeton) vaccinated auditors

- **Home/Off-site online registration: opens at 11a.m.** – ends on 8/26/2021 at 10:30 am
Day 1 Activated auditors *only, one course limit*
- **In-person onsite registration is not available at this time.**

Thursday, August 26, 2021 for Day 2 (non-Princeton) vaccinated auditors

- **Home/Off-site online registration: opens at 11a.m.** – ends on 8/27/2021 at 10:30 am
Day 2 Activated auditors *only, one course limit*
- **In-person onsite registration is not available at this time.**

Friday, August 27, 2021 is Day 3 for vaccinated auditors

- **Home/Off-site online registration: opens at 11a.m.** – for all activated auditors
- **In-person onsite registration is not available at this time.**

Tuition: University Classes \$200 per course and Auditor Only Series \$125 per course.

We accept Visa, MasterCard, and Discover. **We Do NOT accept American Express.**

Refunds may be obtained when dropping a course. Please notify the CAP office **by sending an email to pucap@princeton.edu on or before Tuesday, September 7, 2021 by 5:00 pm.**

Wednesday, September 1	First Day of Classes
Tuesday, September 7	Last Day for Refunds, Written request by 5:00 p.m.
Thursday, September 9	Last Day to enroll in a classes with available seats
October 11 – 15, 2021	Midterm exams – refer to the syllabus to find out if your class will be in session
October 16 – 24, 2021	Fall break
October 25, 2021	Classes resume
November 24-28, 2021	Thanksgiving Recess
Monday, December 6, 2021	Classes end

Community Auditing Program Courses

Fall 2021-2022

AUDITOR ONLY SERIES

The Making of Paris 1800-1900

ASC100

Professor: Caroline Harris, Diane W. and James E. Burke Associate Director for Education Princeton University Art Museum

Description: In the nineteenth century, Paris went through a startling metamorphosis from a medieval city of small, twisting streets to a modern metropolis with wide boulevards, beautiful parks, and a state of the art sewage system. Baron Georges-Eugène Haussmann, who served as prefect of the Seine from 1853-70, and Emperor Napoleon III, r. 1852-70, were the two men most directly responsible for this transformation. Paris, the celebrated city of lights, was in many ways the product of their vision. This course will place those achievements in the wider context of urban planning and development of the city from 1800-1900. Each week, this course will cover about two decades of urban development in Paris, exploring as well works by visual artists like Édouard Manet, Claude Monet, and Henri de Toulouse-Lautrec who captured the changing city in their works.

October 1: Paris from the First Empire to the Bourbon Restoration
October 8: From July Monarchy to Second Empire
October 15: The Man Who Made Paris Paris
October 22: Paris after the Franco-Prussian War

Dates: Friday's, October 1, 8, 15, 22, 2021

Time: 10:00 am – 11:30 am

Caroline Harris, Ph.D., University of Virginia, has led the Education Department at the Princeton University Art Museum for almost two decades. Prior to coming to Princeton, she served as staff lecturer in charge of academic affairs at the Philadelphia Museum of Art. Her main research interest is 19th-century French painting, and her most recent publication is "Alfred Sisley's Portraits of Place" for the museum's catalogue *Cézanne and the Modern: Masterpieces of European Art from the Pearlman Collection*.

Contemporary American Fiction

ASC 200

Professor: Alfred Bendixen, Lecturer in Gender and Sexuality Studies and Freshman Seminars

Description: An exploration of the themes, techniques, and power of recent American fiction through the study of four recent major novels.

Our course explores four of the most popular and most critically acclaimed novels of our time:

November 5, 2021: Delia Owens, *Where the Crawdads Sing* (2018)

November 12, 2021: George Saunders, *Lincoln in the Bardo* (2017)

November 19, 2021: Angie Thomas, *The Hate U Give* (2017)

December 3, 2021: Richard Powers, *The Overstory* (2018)

All of these books had a significant run on the New York Times best-seller list with Delia Owens dominating that list for over two years and Angie Thomas dominating the young adult list for almost that long. George Saunders earned the Booker Prize; Richard Powers won the Pulitzer Prize. In *Where the Crawdads Sing*, Delia Owens offers a fascinating coming of age story that evolves into an intriguing murder mystery – and all of this is set within a vivid depiction of the North Carolina marshlands. George Saunders' *Lincoln in the Bardo* uses President Lincoln's grieving for his dead son as the springboard for a dramatically multi-vocal encounter with the meaning of both death and American history. In *The Hate U Give*, Angie Thomas offers a vivid rendition of the pain and anxiety a young African American girl experiences when she witnesses her friend's brutal death at the hands of the police. Richard Powers' *The Overstory* is a long novel in which the interweaving of multiple stories ultimately transforms into an ambitious confrontation with our relationship to the natural world. Each of these novels has its own claim to importance, but the opportunity to explore all four together should lead us to a new appreciation of the ways that fiction both portrays and engages the complex realities of American life in the 21st century.

Schedule: Friday's, November 5, 12, 19, and December 3, 2021

Time: 10:00 am – 11:30 am

Alfred Bendixen received his Ph.D. in 1979 from the University of North Carolina and taught at Barnard College, California State University, Los Angeles, and Texas A&M University before joining the Princeton faculty in 2014. Much of his scholarship has been devoted to the recovery of 19th-century texts, particularly by women writers, and to the exploration of neglected genres, including the ghost story, detective fiction, science fiction, and travel writing. His teaching interests include the entire range of American literature as well as courses in science fiction, graphic narrative, and gender studies. Professor Bendixen may be best known as the founder of the American Literature Association, the most important scholarly organization in his field, which he continues to serve as Executive Director and as a frequent director of its national conferences.

DEPARTMENT OF AFRICAN AMERICAN STUDIES

African American Literature: Harlem Renaissance to Present

AAS 359

Professor: Nishikawa, Kinohi

Description: A survey of 20th- and 21st-century African American literature, including the tradition's key aesthetic manifestos. Special attention to how modern African American literature fits into certain periods and why certain innovations in genre and style emerged when they did. Poetry, essays, novels, popular fiction, a stage production or two, and related visual texts.

Schedule: 11:00 AM - 12:20 PM M W

PROGRAM IN AMERICAN STUDIES

America Then and Now

AMS 101

Professors: Cheng, Anne, DeLue, Rachael & Dweck, Yaacob

Description: This course introduces students to the subjects of American Studies through discussion of some of the signature ideas, events, and debates in America's past and present in order to understand America as it exists today. It examines both historical and mythic manifestations of America from local, national, and global perspectives and considers the historical and cognitive processes associated with the delineation of America. The course examines a wide range of material and media from the point of view of multiple fields of study, and it engages the voices of diverse individuals and cultures in telling the story of America then and now.

Schedule: 11:00 AM - 12:20 PM M

ANTHROPOLOGY

Introduction to Anthropology

ANT 201

Professor: Fuentes, Agustin

Description: This course is an introduction to anthropology and key topics in becoming and being human. Anthropology looks at the human experience through diverse lenses integrating biology, ecology, language, history, philosophy, and the day to day lives of peoples from across the globe. Anthropology has things to say about being human, it seeks to make the familiar a bit strange and the strange quite familiar. We will take critical reflexive and reflective approaches in asking about key aspects of being human (like war/peace, race/racism, sex/gender, childhood/parenting, religion and the human imagination, and human relations to other species).

Schedule: 10:00 AM - 10:50 AM M W

SCHOOL OF ARCHITECTURE

History of Architectural Theory

ARC 308

Professor: Forster, Kurt Walter

Description: This course offers a history of architectural theory, criticism, and historiography from the Renaissance to the present, emphasizing the texts, media and institutions that have supported architecture's claim to modernity since the late 17th Century. Architectural thought is examined in its social and cultural context as it relates both to the Western philosophical tradition and to design method and practice.

Schedule: 11:00 AM - 12:20 PM W

Introduction to Architectural Thinking

ARC 203

Professor: Allen, Stanley T.

Description: The objective of this course is to provide a broad overview of the discipline of architecture: its history, theories, methodologies; its manners of thinking and working. Rather than a chronological survey, the course will be organized thematically, with examples drawn from a range of historical periods as well as contemporary practice. Through lectures, readings, and discussions every student will acquire a working knowledge of key texts, buildings and architectural concepts.

Schedule: 11:00 AM - 11:50 AM T TH

ART AND ARCHAEOLOGY

An Introduction to the History of Art: Meanings in the Visual Arts

ART100

Professor: Baudez, Basile C.

Description: Introduction to the histories of art and the practice of art history. You will encounter a range of arts (including painting, sculpture, architecture, photography, prints) and artistic practices from diverse historical periods, regions, and cultures. Faculty members of the Department of Art and Archaeology lecture in their fields of expertise; precepts balance hands-on work, readings, and

student projects. In Fall 2021, coursework is designed to encourage students to apply the methods and questions of art history in order to explore the Princeton community. We pay particular attention this year to the various forms of art and engagement.

Schedule: 10:00 AM - 10:50 AM M W

Neoclassicism through Impressionism

ART 212

Professor: Alsdorf, Bridget A.

Description: A broad study of European painting and sculpture from the French revolution to 1900 with special attention to social, political, and cultural shifts. Lectures explore a range of themes including art and revolution, imperial conquest, the rise of landscape painting, the politics of the nude, the birth of "modernism" and the avant-garde. Emphasis on major figures including David, Canova, Goya, Vigée-Lebrun, Turner, Courbet, Manet, Monet, Degas, Rodin, van Gogh and Cézanne.

Schedule: 11:00 AM - 11:50 AM T TH

Renaissance Art and Architecture

ART 233

Professors: Mangone, Carolina & Yerkes, Carolyn

Description: What was the Renaissance? This class explores the major artistic currents that swept northern and southern Europe from the fourteenth through the sixteenth centuries in an attempt to answer that question. In addition to considering key themes such as the revival of antiquity, imitation and license, religious devotion, artistic style, the art market, and the encounter with foreign cultures, peoples and goods, we will survey significant works by artists and architects including Donatello, Jan van Eyck, Alberti, Raphael, Leonardo, Sofonisba Anguissola and Michelangelo.

Schedule: 10:00 AM - 10:50 AM T TH

ASTROPHYSICAL SCIENCES

General Relativity

AST 301

Professor: Goodman, Jeremy J.

Description: An introduction to general relativity and its astrophysical applications, including black holes, cosmological expansion, and gravitational waves.

Schedule: 03:00 PM - 04:20 PM M W

Planets in the Universe

AST 205

Professor: Bakos, Gáspár Áron

Description: This is an introductory course in astronomy focusing on planets in our Solar System, and around other stars (exoplanets). First we review the formation, evolution and properties of the Solar system. Following an introduction to stars, we then discuss the exciting new field of exoplanets; discovery methods, earth-like planets, and extraterrestrial life. Core values of the course are quantitative analysis and hands-on experience, including telescopic observations. This STN course is designed for the non-science major and has no prerequisites past high school algebra and geometry. See www.astro.princeton.edu/planets for important changes

Schedule: 01:30 PM - 02:50 PM T TH

CIVIL AND ENVIRONMENTAL ENGINEERING

Engineering in the Modern World

CEE 102A

Professor: Littman, Michael G.

Description: Lectures and readings focus on bridges, railroads, power plants, steamboats, telegraph, highways, automobiles, aircraft, computers, and the microchip. Historical analysis provides a basis for studying societal impact by focusing on scientific, political, ethical, and aesthetic aspects in the evolution of engineering over the past two and a half centuries. The precepts and the papers will focus historically on engineering ideas including the social and political issues raised by these innovations and how they were shaped by society as well as how they helped shape culture.

Schedule: 11:00 AM - 11:50 AM M W

Intro to Environmental Engineering

CEE 207

Professor: Bourg, Ian Charles

Description: The course introduces the basic chemical and physical processes of relevance in environmental engineering. Mass and energy balance and transport concepts are introduced and

the chemical principles governing reaction kinetics and phase partitioning are presented. We then turn our focus to the applications in environmental engineering problems related to water and air pollution.

Schedule: 01:30 PM - 02:50 PM M

Mechanics of Solids

CEE 205

Professor: Adriaenssens, Sigrid M.

Description: This course teaches fundamental principles of solid mechanics. Equilibrium equations, reactions, internal forces, stress, strain, Mohr's circle, and Hooke's law. Analysis of the stress and deformation in simple structural members for safe and stable engineering design. Axial force in bars, torsion in shafts, bending and shearing in beams, stability of elastic columns, strain transformation, stress transformation, combined loadings.

Schedule: 11:00 AM - 12:20 PM M W

UNIVERSITY CENTER FOR HUMAN VALUES

Practical Ethics

CHV 310

Professor: Singer, Peter Albert David

Description: This course will challenge you to examine your life from an ethical perspective. What should your goals and values be? We are living in a world in which some live in great affluence while others live in extreme poverty. Climate change poses a threat to both present and future generations, as well as to the natural environment. Is it enough to obey conventional moral rules? Other questions to be discussed include: abortion, euthanasia; the claim that all human life has equal value; the moral status of animals; and the ethics of what we eat. Topics of current interest may be added during the semester. There is no required textbook. All essential readings will be available online.

Schedule: 11:00 AM - 11:50 AM M W

CLASSICS

Archaic and Classical Greece

CLA 216

Professor: Flower, Michael A.

Description: The social, political, and cultural history of ancient Greece from ca.750 B.C. through the time of the Peloponnesian War (404 B.C.). Special attention is paid to the emergence of the distinctively Greek form of political organization, the city state, and to democracy, imperialism, social practices, and cultural developments. Emphasis is placed on study of the ancient sources, methods of source analysis, and historical reasoning.

Schedule: 01:30 PM - 02:20 PM M W

Classical Mythology

CLA 212

Professor: Feldherr, Andrew Mark

Description: An introduction to the classical myths in their cultural context and in their wider application to human concerns (such as creation, sex and gender, identity, transformation, and death). The course will offer a who's who of the ancient imaginative world, study the main ancient sources of well-known stories, and introduce modern approaches to analyzing myths.

Schedule: 01:30 PM - 02:20 PM T TH

COMPARATIVE LITERATURE

Great Books from Little Languages

COM 351

Professor: Bellos, David Michael

Description: For historical reasons most books that come into English are translated from just a few languages, creating a misleading impression of the spread of literature itself. This course provides an opportunity to discover literary works from languages with small reading populations which rarely attract academic attention in the USA. It also offers tools to reflect critically on the networks of selection that determine which books reach English-language readers; the role of literature in the maintenance of national identities; the role of translation; and the concept of "world literature" in Comparative Literary Studies.

Schedule: 11:00 AM - 12:20 PM M

COMPUTER SCIENCE

Computational Geometry

COS 451

Professor: Chazelle, Bernard

Description: This course introduces the basic concepts of geometric computing, illustrating the importance of this field for a variety of applications areas, such as computer graphics, solid modeling, robotics, database, pattern recognition, and statistical analysis. Algorithms are presented and analyzed for a large number of geometric problems, and an array of fundamental techniques are discussed (e.g., convex hulls, Voronoi diagrams, intersection problems, multidimensional searching).

Schedule: 01:30 PM - 02:50 PM M W

Computer Vision

COS 429

Professor: Russakovsky, Olga

Description: This course is an introduction to the concepts of 2D and 3D computer vision. It surveys a wide range of topics from level-level vision to high-level recognition. We will discuss concepts such as filtering and edge detection; cameras and shape reconstruction; segmentation and clustering; optical flow and tracking; object recognition; motion recognition; statistical modeling of visual data, etc. Throughout the course, there will also be examination of aspects of human vision and perception that guide and inspire computer vision techniques.

Schedule: 03:00 PM - 04:20 PM T TH

Computers in Our World

COS 109

Professor: Kernighan, Brian W.

Description: Computers are all around us. How does this affect the world we live in? This course is a broad introduction to computing technology for humanities and social sciences students. Topics will be drawn from current issues and events, and will include discussion of how computers work; what programming is and why it is hard; how the Internet and the Web work; security and privacy.

Schedule: 01:30 PM - 02:50 PM M W

Functional Programming

COS 326

Professors: Gupta, Aarti & Walker, David P.

Description: An introduction to the principles of typed functional programming. Programming recursive functions over structured data types and informal reasoning by induction about the correctness of those functions. Functional algorithms and data structures. Principles of modular

programming, type abstraction, representation invariants and representation independence. Parallel functional programming, algorithms and applications.

Schedule: 11:00 AM - 12:20 PM M W

Information Security

COS 432

Professor: Narayanan, Arvind

Description: How to secure computing systems, communications, and users. Basic cryptography; private and authenticated communication; software security; malware; operating system protection; network security; web security; physical security; cryptocurrencies and blockchains; privacy and anonymity; usable security; economics of security; ethics of security; legal and policy issues.

Schedule: 11:00 AM - 12:20 PM T TH

Introduction to Programming Systems

COS 217

Professor: Rusinkiewicz, Szymon M.

Description: Developing programming skills for systems building, including modular program design, programming style, testing, debugging, and performance tuning. Additionally, an introduction to ARM assembly language and machine language.

Schedule: 10:00 AM - 10:50 AM T TH

ECOLOGY AND EVOLUTIONARY BIOLOGY

Life on Earth: Mechanisms of Change in Nature

EEB 211

Professors: Kocher, Sarah, Levine, Jonathan, & Sullivan, Katherine

Description: An examination of how life evolved and how organisms interact to shape the natural world. Why did the dinosaurs disappear? What mechanisms can produce the chameleon's camouflage or the giraffe's long neck? Why do ecosystems contain such a wide diversity of species when competition between them should eliminate all but a few? How will life on earth change with increasing human domination of the planet? These and other questions related to the origin and future of life, conflict and cooperation between species, and dynamics of ecosystems will be explored. This course is required for all EEB majors and fulfills a requirement for medical school.

Schedule: 11:00 AM - 12:20 PM W

ECONOMICS

Economics of Europe

ECO 372

Professor: Weyerbrock, Silvia

Description: Europe is at a crossroads. Political and economic integration in the European Union (EU) exceeds levels reached in the rest of the world. Economic integration not only affects trade but also migration, agriculture, competition, regions, energy, and money. Most euro area economies have been grappling with interlocking crises involving debt, banking and growth. Moreover, the EU is struggling with Covid-19 and its economic fallout, Brexit and migrant inflows and integration. This course studies economic integration, the ongoing crises, and policy responses. It uses economic analysis to study policy issues.

Schedule: 03:00 PM - 04:20 PM T TH

Introduction to Macroeconomics

ECO 101

Professor: Blinder, Alan Stuart

Description: Analysis of the operation of the national economy, with emphasis on the causes and consequences of recessions and booms, inflation and unemployment - and possible policy responses to each. Special attention will be paid to the effects and implications of the pandemic and its aftermath for the economy and for policy.

Schedule: 11:00 AM - 11:50 AM T TH

Introduction to Microeconomics

ECO 100

Professor: Noonan, Kelly

Description: Economics studies the allocation of scarce resources. Since this is a microeconomics course, it will focus on the decisions made by individual consumers and producers. We will consider a variety of different market structures ranging from perfect competition to monopoly. We also will discuss the rationale for government involvement when there are market failures.

Schedule: 11:00 AM - 11:50 AM M W

Macroeconomics

ECO 301

Professor: Aguiar, Mark A.

Description: This course covers the theory of modern macroeconomics in detail. We will focus on the determination of macroeconomic variables -- such as output, employment, price, and the interest rate -- in the short, medium, and long run, and we will address a number of policy issues. We will discuss several examples of macroeconomic phenomena in the real world. A central theme will be to understand the powers and limitations of macroeconomic policy in stabilizing the business cycle and promoting growth.

Schedule: 03:00 PM - 04:20 PM T TH

Money and Banking

ECO 342

Professor: Brunnermeier, Markus Konrad

Description: This course explores the interaction between money, financial markets and institutions. We examine (1) the three roles of money, using cryptocurrencies as leading example, (2) the core principles of asset pricing, (3) how financial institutions help to overcome financial frictions, but may lead to financial crisis and bank runs, (4) how monetary and macroprudential policy manage inflation and can help to mitigate financial crises, (5) the international financial architecture, especially the role of the International Monetary Fund, and the impact of FinTech on the financial sector.

Schedule: 01:30 PM - 02:50 PM M W

Organization and Design of Markets

ECO 325

Professor: Kastl, Jakub

Description: This class studies how to solve problems of economic resource allocation via markets in three parts. 1: Matching markets (how to assign students to schools, kidneys to patients, workers to jobs etc.). 2: Auctions (how they can be used to discover price in various environments and their use to allocate goods such as advertising, financial assets or radio spectrum). 3: Further analysis of platforms, cryptocurrencies and role of information in markets in general. Throughout the course we will discuss the issues underlying the design of successful marketplaces. The course will emphasize applications and connections between the different problems.

Schedule: 11:00 AM - 12:20 PM T TH

ELECTRICAL AND COMPUTER ENGINEERING

Contemporary Logic Design

ECE 206

Professor: Malik, Sharad & Valavi, Hossein

Description: Introduction to the basic concepts in logic design that form the basis of computation and communication circuits. Logic gates and memory elements. Timing methodologies. Finite state systems. Programmable logic. Basic computer organization.

Schedule: 01:30 PM - 02:50 PM T TH

Solid-State Devices

ECE 341

Professor: Kahn, Antoine

Description: The physics and technology of solid state devices. Review of electronic structure of semiconductors, energy bands and doping, followed by discussion of carrier transport by drift and diffusion and recombination/generation. Detailed analysis of p-n junctions, bipolar transistors and field effect transistors. Survey of a wide range of devices, including photodetectors, solar cells, light-emitting diodes and semiconductor lasers, highlighting contemporary concepts such as thin film electronics and 2D semiconductors.

Schedule: 03:00 PM - 04:20 PM T TH

ENGINEERING

Designing Ventures To Change the World

EGR 488

Professor: Danner, John David

Description: This course looks at longstanding societal challenges through the lens of socially-minded entrepreneurship and innovation. We will explore whether and how social-benefit venture models - for-profit or non-profit - can help address comparable issues in underserved urban and rural communities across America. How can these communities become more self-reliant and prosperous against a backdrop of increasing inequality in our society? We will explore potential models for durable social ventures, engage with frontline entrepreneurs, and most importantly develop your own solution ideas for the problems and communities you care about.

Schedule: 01:30 PM - 02:50 PM M W

Special Topics in Entrepreneurship

EGR 495

Professor: Sands, Anita

Description: In this course, students will explore the experiences of female entrepreneurs today through the lives and stories of spectacular guest speakers and select readings. This isn't a class just about women nor is it only for women - rather it's a class that helps everyone understand how the experience of others can differ and the kinds of skills that can help us navigate challenges and obstacles as we encounter them. More importantly, it will also equip us to think about the ways in which we can contribute to making the entrepreneurial environment more diverse, inclusive and equitable in the future.

Schedule: 03:00 PM - 04:20 PM T TH

Venture Capital & Finance of Innovation

EGR 395

Professor: Hejazi, Shahram

Description: Venture capital is a driving force behind innovation and entrepreneurship, although the unique working details of venture capital firms and their processes are well-kept secrets. Early stage investors not only fund startups but also enable innovation through mentorship and partnership with the entrepreneurs. Understanding how these investors think and operate is critical to students who are interested in entrepreneurship, as well as to those who would like to pursue venture capital.

This class is by special permission only. To apply please submit an email to pucap@princeton.edu indicating your reason for choosing this class and your background in 50 words or less.

Submissions are due by August 16, 2021.

Schedule: 01:30 PM - 04:20 PM F

ENGLISH

American Literature, 1865-1930

ENG 351

Professor: Mitchell, Lee Clark

Description: A study of the development of American literature within the context of the shifting social, intellectual, and literary conventions of the period. Emphasis will be on the artistic

achievement of writers such as James, Howells, Chesnutt, Crane, Wharton, Cather, Hemingway, Fitzgerald, and Faulkner.

Schedule: 10:00 AM - 10:50 AM T TH

The Bible as Literature

ENG 390

Professors: Padiusniak, Chase & Smith, D. Vance

Description: This course will study what it means to read the Bible in a literary way: what literary devices does it contain, and how has it influenced the way we read literature today? What new patterns and meanings emerge? This course will examine the structures and modes of the Biblical books; the formation of the canon and the history of the apocryphal or deuterocanonical books; questions of authorship; its literary genres; histories of exegesis, interpretation, and commentary; the redaction, division, and ordering of biblical texts; the cultural, political, and intellectual worlds within which these texts were written.

Schedule: 01:30 PM - 02:20 PM M W

The Essay

ENG 203

Professor: Nunokawa, Jeff

Description: This course introduces students to the range of the essay form as it has developed from the early modern period to our own. The class will be organized, for the most part, chronologically, beginning with the likes of Bacon and Hobbes, and ending with some contemporary examples of and reflections on the form. It will consider how writers as various as Sidney, Hume, Johnson, Emerson, Woolf, C.L.R. James, and Stephen Jay Gould have defined and revised The Essay.

Schedule: 02:30 PM - 03:20 PM M W

GEOSCIENCES

Climate: Past, Present, and Future

GEO 102A

Professor: Sigman, Daniel Mikhail

Description: Which human activities are changing our climate, and does climate change constitute a major problem? We will investigate these questions through an introduction to climate processes and an exploration of climate from the distant past to today. We will also consider the impact of

past and ongoing climate changes on the global environment and on humanity. Finally, we will draw on climate science to identify and evaluate possible courses of action. Intended to be accessible to students not concentrating in science or engineering, while providing a comprehensive overview appropriate for all students.

Schedule: 11:00 AM - 12:20 PM T TH

Earth's Atmosphere

GEO 361

Professor: Fueglistaler, Stephan Andreas

Description: This course discusses the processes that control Earth's climate - and as such the habitability of Earth - with a focus on the atmosphere and the global hydrological cycle. The course balances overview lectures (also covering topics that have high media coverage like the 'Ozone hole' and 'Global warming', and the impact of volcanoes on climate) with selected in-depth analyses. The lectures are complemented with homework based on real data, demonstrating basic data analysis techniques employed in climate sciences.

Schedule: 11:00 AM - 12:20 PM T TH

HISTORY

Asian American History

HIS 270

Professor: Lew-Williams, Beth

Description: This course introduces students to the multiple and varied experiences of people of Asian heritage in the United States from the 19th century to the present day. It focuses on three major questions: (1) What brought Asians to the United States? (2) How did Asian Americans come to be viewed as a race? (3) How does Asian American experience transform our understanding of U.S. history? Using newspapers, novels, government reports, and films, this course will cover major topics in Asian American history, including Chinese Exclusion, Japanese internment, transnational adoption, and the model minority stereotype.

Schedule: 10:00 AM - 10:50 AM M W

Colonial Latin America to 1810

HIS 303

Professor: Candiani, Vera Silvina

Description: What is colonization? How does it work? What kind of societies does it create? Come find out through the lens of the Latin America. First we study how the Aztec and Inca empires subdued other peoples, and how Muslim Iberia fell to the Christians. Then, we learn about Spanish and Portuguese conquests and how indigenous resistance, adaptation, and racial mixing shaped the continent. You will see gods clash and meld, cities rise and decline, and insurrections fail or win. Silver mines will boom and bust, slaves will toil and rebel; peasants will fight capitalist encroachments. This is a comprehensive view of how Latin America became what it is.

Schedule: 11:00 AM - 11:50 AM T TH

Democracy and Slavery in the New Nation

HIS 373

Professor: Wilentz, Sean

Description: How did the United States emerge as a revolutionary republic built on the principle of human equality at the same time that it produced the wealthiest and mightiest slave society on earth? This course approaches that question in an interpretive history emphasizing the contradictory expansion of racial slavery and political democracy. Topics include the place of slavery in the Federal Constitution and the founding the nation, the spread of the cotton kingdom, Jacksonian democracy and the growth of political parties, the rise of antislavery and proslavery politics, and the growing social and political divisions between North and South.

Schedule: 11:00 AM - 11:50 AM T TH

Modern Eastern Europe, 19th to 20th Century

HIS 301

Professor: Vushko, Iryna

Description: History of Eastern Europe from 1800 to the present. In this course, we analyze the concept of and historical trajectories of Eastern Europe during the modern era. The focus is upon political history, but we will also discuss how modern politics affected culture and the arts. Themes and topics include (but not limited to): empire, statehood and nationalism in East-European history; Marxism, radicalism, fascism, communism; the revolutions of 1848, 1917, 1989, and 2014. The class ends with discussion of the wars on the Balkans during the 1990s, the crisis in today's Ukraine, and the historical roots for both.

Schedule: 09:00 AM - 09:50 AM T TH

The Civilization of the High Middle Ages

HIS 344

Professor: Jordan, William Chester

Description: In lectures, to provide my interpretation (and a conspectus of differing interpretations) of the civilization of Western Europe, 11th-14th century; by readings, to introduce students to the variety of surviving sources; through the paper, to give students a taste of doing medieval history.

Schedule: 10:00 AM - 10:50 AM M W

The United States, 1920-1974

HIS 383

Professor: Kruse, Kevin Michael

Description: The history of modern America, with particular focus on domestic political and social changes. Topics include the Roaring 20s; the Great Depression and the New Deal; the homefront of World War II and the Cold War; the civil rights movement and the Great Society; the Vietnam War; the sexual revolution; the Silent Majority, the Nixon administration, and Watergate.

Schedule: 10:00 AM - 10:50 AM T TH

U.S. Foreign Relations

HIS 380

Professor: Fronczak, Joseph M.

Description: This course covers the history of US foreign relations from the American revolution to the present day. Lectures take up questions of diplomacy, foreign policy, ideology and culture, empire and anti-imperialism, and revolution and counterrevolution. Precepts emphasize primary sources, from the writings of Tom Paine, George Washington, William Jennings Bryan, Ho Chi Minh, Phyllis Schlafly, Elaine Scarry, and more.

Schedule: 11:00 AM - 11:50 AM M W

US Intellectual History

HIS 375

Professor: Wirzbicki, Peter

Description: This course examines the history of the United States through its intellectuals and major ideas. Starting with the American Revolution and progressing through to the contemporary intellectual scene, it hopes to introduce students to major debates, themes, and intellectual movements in the history of American ideas. We will read a number of famous thinkers and actors in their own words: Thomas Jefferson, Henry David Thoreau, Jane Addams, Martin Luther King, Jr.,

and many others. Students will leave this class with a deeper understanding and appreciation for the ideas and the thinkers who have shaped the nation's politics and culture.

Schedule: 02:30 PM - 03:20 PM T TH

PROGRAM IN LINGUISTICS

Introduction to Language & Linguistics

LIN 201

Professor: Fellbaum, Christiane Dorothea

Description: An introduction to the scientific analysis of the structure and uses of language. Core areas covered include phonetics and phonology, morphology, the lexicon, syntax, semantics and pragmatics, with data from a wide range of languages. Additional topics include language acquisition, bilingualism, neurolinguistics, historical linguistics and computational linguistics.

Schedule: 10:00 AM - 10:50 AM M W

Phonetics and Phonology

LIN 301

Professor: Merrill, John T.M.

Description: This course is an introduction to the science of speech sounds (phonetics) and sound systems (phonology). Students will 1) learn how sounds from a wide variety of languages are produced, and learn to produce and transcribe them; 2) understand and analyze the acoustic properties of speech sounds using (free) software; 3) understand the unconscious knowledge speakers have of the rules and constraints that govern their native language's sound system; 4) extract phonological generalizations from phonetic data from various languages; 5) learn about the similarities and differences between the sound systems of the world's languages.

Schedule: 11:00 AM - 12:20 PM M W

MATHEMATICS

Advanced Vector Calculus

MAT 203

Professor: Gabai, David

Description: Vector spaces, limits, derivatives of vector-valued functions, Taylor's formula, Lagrange multipliers, double and triple integrals, change of coordinates, surface and line integrals, generalizations of the fundamental theorem of calculus to higher dimensions. More abstract than

201 but more concrete than 218. Recommended for prospective physics majors and others with a strong interest in applied mathematics.

Schedule: 01:30 PM - 02:50 PM M W

Applied Algebra

MAT 340

Professor: McConnell, Mark

Description: An applied algebra course that integrates the basics of theory and modern applications for students in MAT, APC, PHY, CBE, COS, ELE. This course is intended for students who have taken a semester of linear algebra and who have an interest in a course that treats the structures, properties and application of groups, rings, and fields. Applications and algorithmic aspects of algebra will be emphasized throughout.

Schedule: 03:00 PM - 04:20 PM T TH

MECHANICAL AND AEROSPACE ENGINEERING

Automatic Control Systems

MAE 433

Professor: Rowley, Clarence W.

Description: To develop an understanding of feedback principles in the control of dynamic systems, and to gain experience in analyzing and designing control systems in a laboratory setting.

Schedule: 11:00 AM - 12:20 PM T TH

Modern Solid Mechanics

MAE 223

Professor: Kosmrlj, Andrej

Description: Fundamental principles of solid mechanics: equilibrium equations, reactions, internal forces, stress, strain, Hooke's law, torsion, beam bending and deflection, and analysis of stress and deformation in simple structures. Integrates aspects of solid mechanics that have applications to mechanical and aerospace structures (engines and wings), as well as to microelectronic and biomedical devices. Topics include stress concentration, fracture, plasticity, and thermal expansion. The course synthesizes descriptive observations, mathematical theories, and engineering consequences.

Schedule: 11:00 AM - 12:20 PM T TH

MOLECULAR BIOLOGY

Biochemistry

MOL 345

Professor: Hughson, Frederick McLaury

Description: Fundamental concepts of biomolecular structure and function will be discussed, with an emphasis on principles of thermodynamics, binding and catalysis. A major portion of the course will focus on metabolism and its logic and regulation.

Schedule: 10:00 AM - 10:50 AM M W F

Intro to Cellular & Molecular Biology

MOL 214

Professors: Brangwynne, Clifford, Notterman, Daniel &. Thieringer, Heather A.

Description: Important concepts and elements of molecular biology, biochemistry, genetics, and cell biology are examined in an experimental context. This course fulfills the requirement for students majoring in the biological sciences and satisfies the biology requirement for entrance into medical school.

Schedule: 11:00 AM - 12:20 PM M W

MUSIC

Musical Modernism 1890-1945

MUS 240

Professor: Morrison, Simon Alexander

Description: An in-depth survey of music in Europe and America between 1890 and 1945, focusing on Symbolism, Expressionism, and Neoclassicism, and on such composers as Claude Debussy, Igor Stravinsky, Scott Joplin, the Second Viennese School and Les Six.

Schedule: 11:00 AM - 11:50 AM T TH

NEAR EASTERN STUDIES

Introduction to the Middle East

NES 201

Professor: Cook, Michael Allan

Description: A sweep through Middle Eastern history, globally contextualized. Weeks 1-6 treat the rise of Islam, the Caliphate, the Ottoman Empire, 19th-century reforms, European imperialism, and incipient globalization in the region. Weeks 7-12 focus on state-society relations, political ideologies, and foreign actors in the 20th and 21st centuries. You will come away with a basic grasp of the region's past and present and its mix of idiosyncrasies and global links.

Schedule: 11:00 AM - 11:50 AM T TH

The Politics of Modern Islam

NES 269

Professor: Haykel, Bernard A.

Description: This course examines the political dimensions of Islam. This will involve a study of the nature of Islamic political theory, the relationship between the religious and political establishments, the characteristics of an Islamic state, the radicalization of Sunni and Shi'i thought, and the compatibility of Islam and the nation-state, democracy, and constitutionalism, among other topics. Students will be introduced to the complex and polemical phenomenon of political Islam. The examples will be drawn mainly, though not exclusively, from cases and writings from the Middle East.

Schedule: 11:00 AM - 11:50 AM M W

NEUROSCIENCE

Functional Neuroanatomy

NEU 200

Professor: Graziano, Michael Steven

Description: A crucial part of neuroscience is understanding how function has its foundation in anatomy. This course traces neuroanatomical pathways through the central nervous system. It emphasizes the primate brain, especially the human brain. The course covers how nuclei, ganglia, and layered structures such as cortex are arranged physically in the brain, the fiber pathways by which they connect to each other, and how this connectivity relates to their function. The material will encompass systems within the brain stem, sensory systems, motor systems, higher cognitive systems, and the interconnectivity and interaction of these systems.

Schedule: 11:00 AM - 12:20 PM M W

OPERATIONS RESEARCH AND FINANCIAL ENGINEERING

Computing and Optimization

ORF 363

Professor: Ahmadi, Amir Ali

Description: An introduction to several fundamental and practically-relevant areas of modern optimization and numerical computing. Topics include computational linear algebra, first and second order descent methods, convex sets and functions, basics of linear and semidefinite programming, optimization for statistical regression and classification, and techniques for dealing with uncertainty and intractability in optimization problems. Extensive hands-on experience with high-level optimization software. Applications drawn from operations research, statistics and machine learning, economics, control theory, and engineering.

Schedule: 01:30 PM - 02:50 PM T TH

Fundamentals of Statistics

ORF 245

Professor: Fan, Jianqing

Description: A first introduction to probability and statistics. This course will provide background to understand and produce rigorous statistical analysis including estimation, confidence intervals, hypothesis testing and regression and classification. Applicability and limitations of these methods will be illustrated using a variety of modern real world data sets and manipulation of the statistical software R.

Schedule: 03:00 PM - 04:20 PM M W

Probability and Stochastic Systems

ORF 309

Professor: Shkolnikov, Mykhaylo

Description: An introduction to probability and its applications. Topics include: basic principles of probability; Lifetimes and reliability, Poisson processes; random walks; Brownian motion; branching processes; Markov chains

Schedule: 11:00 AM - 11:50 AM M W F

PHILOSOPHY

Intro to Metaphysics & Epistemology

PHI 203

Professor: Lederman, Harvey

Description: An introduction to central questions of philosophy. Topics include: The rationality of religious belief, our knowledge of the external world, freedom of the will and the identity of persons over time.

Schedule: 03:30 PM - 04:20 PM M W

PHYSICS

Introductory Physics I

PHY 101

Professor: Wagoner, Kasey

Description: The course is concerned with an introduction to the fundamental laws underlying physics and having general application to other areas of science. The treatment is complete and detailed; however, less mathematical preparation is assumed than for PHY 103-104. Mechanics and thermodynamics are treated quantitatively with a special emphasis on problem solving. In the spring semester PHY 102 covers electricity and magnetism, optics and quantum physics using the topics treated in PHY 101.

Schedule: 11:00 AM - 11:50 AM TH

POLITICS

Constitutional Interpretation

POL 315

Professor: George, Robert Peter

Description: A study of the structure of the American constitutional system and of the meaning of key constitutional provisions. Students will critically evaluate competing theories of, and approaches to, constitutional interpretation.

Schedule: 11:00 AM - 12:20 PM T

Global Justice

POL 313

Professor Beitz, Charles R.

Description: What, if any, norms of justice apply to the institutions and practice of world politics? Topics may include "political realism" and skepticism about global morality; just wars and justice in warfare; ethics of humanitarian intervention; the nature and basis of human rights; world poverty

and global distributive justice; climate change; democracy and accountability in global institutions. Readings chosen from recent works in political philosophy.

Schedule: 11:00 AM - 11:50 AM M W

International Political Economy

POL 385

Professor: Mosley, Layna

Description: This course examines the interactions between international politics and international economics, as well as between domestic political systems and the global economy. Topics include the World Trade Organization, regional trade cooperation (such as the European Union), multinational corporations and global supply chains, exchange rates, financial crises, the International Monetary Fund and the contemporary anti-globalization backlash. Students will develop a familiarity with social scientific research methods, including how scholars develop and evaluate causal claims.

Schedule: 09:00 AM - 09:50 AM M W

International Relations

POL 240

Professor: Moravcsik, Andrew

Description: This course introduces major theories of international relations, uses them to explain historical events from 10,000 BC to the present, and investigates contemporary policy issues such as human rights, terrorism, US foreign policy, climate change and global environmental regulation. The course also trains students how to write academic analyses, policy memos and media opinion pieces, thus preparing them for more specialized courses and research in international relations, as well as jobs in foreign policy.

Schedule: 11:00 AM - 11:50 AM M W

Law and Society

POL 318

Professor: Staszak, Sarah Lynn

Description: An examination of courts as unique legal and political institutions with distinctive approaches to resolving disputes and formulating law and public policy. Emphasis is on the American legal system.

Schedule: 11:00 AM - 11:50 AM M W

Political Economy

POL 349

Professor: Gieczewski, German Sergio

Description: Examines the role of political institutions in facilitating or hindering economic prosperity. We start with the basic tools of political economy - collective action, elections, and delegation. These tools are then applied to the problems of controlling rulers, and the persistence of inefficiency.

Schedule: 11:00 AM - 11:50 AM T TH

Political Economy of the United States

POL 335

Professor: McCarty, Nolan Matthew

Description: Many of America's problems are economic in nature, yet politics make the solutions elusive. In "The Political Economy of the United States", this conundrum is explored in detail. We seek to explicitly understand the links between economic outcomes and political processes. Among the concepts explored are special interest influence, the role of money in politics, and regulatory capture. These concepts are brought to life in discussions about key issues and debates such as wealth taxation, the monopolization of social media, and the political effects of economic shocks and de-industrialization.

Schedule: 10:00 AM - 10:50 AM T TH

The Politics of Development

POL 351

Professor: Widner, Jennifer Anne

Description: This course investigates the key political drivers of economic development and human welfare. It explores the effects of geography, historical legacies, policy, incentive design, and institutional capacity on standards of living, including vulnerability to disease and climate risk. Uses theory, comparison, and case studies to motivate discussion.

Schedule: 10:00 AM - 10:50 AM T TH

Topics in American Statesmanship

POL 332

Professor: Guelzo, Allen Carl

Description: Course will examine the political development, principles and practice of Abraham Lincoln, and especially grass-roots politics in the 19th century Republic, the international context of liberal democracy in the 19th century, the war powers of the presidency, the contest of Whig and Democratic political ideas, the relation of the executive branch to the legislative and judicial branches, diplomacy, and the presidential cabinet.

Schedule: 03:30 PM - 04:20 PM T TH

RELIGION

Ancient Judaism: Alexander to Islam

REL 246

Professor: Himmelfarb, Martha

Description: This course offers an introduction to the development of ancient Judaism during the eventful millennium from the establishment of the Torah as the constitution of the Jewish people in the fifth century BCE--an event that some have seen as marking the transition from biblical religion to Judaism--to the completion of the other great canonical Jewish document, the Babylonian Talmud, in perhaps the sixth century CE.

Schedule: 10:00 AM - 10:50 AM TH F

SLAVIC LANGUAGES AND LITERATURES

Literature and Medicine

SLA 368

Professor: Fratto, Elena

Description: This course will examine themes that are paramount in our lives as individuals, communities, and societies' illness and healing, caregiving, epidemics, the distinction between normal and pathological. Our reflections on ethics will feature stories and storytelling as an entry point. Why do doctors and patients need stories? How does storytelling illuminate medicine as a system of representation? What rhetorical devices are embedded in the way we conceive of sickness, well-being, and the medical institutions? We will address these questions and will explore the overlaps between medicine and storytelling within texts from all over the world.

Schedule: 10:00 AM - 10:50 AM T TH

SOCIOLOGY

Introduction to Sociology

SOC 101

Professor: Nelson, Timothy J.

Description: This course will introduce students to the discipline of sociology (the systematic study of human groups, institutions and societies). Students will learn the major theoretical approaches within the field as well as the diverse research methods used in sociological investigations. These tools will be applied to a wide variety of special topics studied by sociologists, including family, work, education, religion and social movements, as well as dynamics of class, gender, race and ethnic inequalities within and across countries.

Schedule: 10:00 AM - 10:50 AM T TH

SCHOOL OF PUBLIC & INTERNATIONAL AFFAIRS

China's Foreign Relations

SPI 316

Professor: Flaherty, Martin S.

Description: This course will review and analyze the foreign policy of the People's Republic of China from 1949 to the present. It will emphasize Beijing's relations with the US as well as examine its dealings with the USSR, Asia and the developing world. It will explore the changes and continuities in the PRC's foreign policy during three periods; 1) the era of Mao Zedong's dominance, 2) the reform era begun under Deng Xiaoping and 3) the turn back toward authoritarianism since the advent of Xi Jinping.

Schedule: 09:00 AM - 09:50 AM T TH

Designing Democracy

SPI 324

Professor: Reynolds, Andrew S.

Description: Introducing the study of political institutions as levers of conflict management in ethnically plural, post-conflict national states. Our attention will be focused on ongoing and historical cases of constitutional design. These states will be analyzed in terms of their paths toward democracy, the nature of their internal conflict, and the types of political institutions they have (or are adopting).

Schedule: 01:30 PM - 02:50 PM T TH

Ethics and Public Policy

SPI 370

Professor: Macedo, Stephen Joseph

Description: The course examines major moral controversies in public life and differing conceptions of justice and the common good. It seeks to help students develop the skills required for thinking and writing about the ethical considerations that ought to shape public institutions, guide public authorities, and inform the public's judgments. The course will focus on issues that are particularly challenging for advanced, pluralist democracies such as the USA, including justice in war, terrorism and torture, markets and distributive justice, immigration, refugees, and criminal justice.

Schedule: 11:00 AM - 11:50 AM T TH

Financial History

SPI 466

Professor: James, Harold

Description: The course examines the history of financial innovation and its consequences. It examines the evolution of trading practices, bills of exchange, government bonds, equities, banking activity, derivatives markets, and securitization. How do these evolve in particular state or national settings, how are the practices regulated, how do they relate to broader development? What happens as financial instruments are traded across state boundaries, and how does an international financial order evolve? What are the effects of international capital mobility? How is resulting conflict and instability managed, on both a national and international level?

Schedule: 08:30 AM - 09:50 AM M W

Psychology of Decision Making/Judgment

SPI 340

Professor: Shafir, Eldar

Description: An introduction to the main issues and research findings underlying decision-making and judgment under uncertainty. The focus is on the contrast between the normative theory of judgment and choice, and the psychological principles that guide decision behavior, often producing biases and errors. Among other topics, we will consider political, medical, and financial decision-making, poverty, negotiations, and the law, along with the implications of the findings for the rational agent model typically assumed in economics, throughout the social sciences, and in policy making.

Schedule: 10:00 AM - 10:50 AM T TH

Women, Law and Public Policy

SPI 373

Professor: Dodd, Lynda

Description: This course will explore how women's rights activists, lawyers, and legal scholars have considered legal institutions and law to be arenas and resources for transforming women's lives and gender norms, identities, and roles. Since the early 1970s, feminist legal scholars and lawyers have challenged traditional understandings of law and the core civic values of freedom, justice, and equality. Others have questioned whether litigation-centered approaches to reform have harmed more than helped advance the goal of women's equality and liberation.

Schedule: 08:30 AM - 09:50 AM T TH