

**Community Auditing Program Courses  
2024-2025 Fall**



**COMMUNITY &  
REGIONAL AFFAIRS**  
PRINCETON UNIVERSITY

**CAP LECTURE LIST**

**Fall 2024 Classes**

**Princeton University  
Office of Community and Regional Affairs  
Community Auditing Program (CAP)  
4 Mercer Street  
Princeton, NJ 08540**

**Telephone (609)258-0202  
CAP office hours: M – F, 9 a.m. – 4 p.m.**

**Email: [PUCAP@princeton.edu](mailto:PUCAP@princeton.edu)**

**Website: <https://community.princeton.edu>**



## Community Auditing Program Courses 2024-2025 Fall

- Fall class fee \$200 per University course, per semester. Auditor Only Series fee \$125 per course.
- Credit cards accepted (Visa, MasterCard, and Discover).
- To drop a course and receive a refund, you must notify the CAP office **in writing (email acceptable)** by 5:00 pm on or before Thursday, September 12, 2024.
- Registration on Day 1 and Day 2 is limited to one (1) course. Day 3 is limited to three (3) courses.
- Auditors may register for a total of 3 University classes plus the Auditor Only classes.

### Wednesday, August 28, 2024

- **Online registration: opens at 11a.m.** – Day 1 ends on 8/29/2024 at 10:30 am  
Day 1 Activated auditors *only, one course limit*

### Thursday, August 29, 2024

- **Online registration: opens at 11a.m.** – Day 2 ends on 8/30/2024 at 10:30 am  
Day 2 Activated auditors *only, one course limit*

### Friday, August 30, 2024

- **Online registration opens at 11a.m.** – Day 3 for all activated auditors extends from **Friday, August 30 – Friday, September 13, 2024**  
Registration remains open for all auditors online through the first two (2) weeks of classes for courses with space available.

Tuesday, September 3, 2024	First Day of Classes
Thursday, September 12, 2024	Last Day for Refunds, Written request required by 5:00 p.m.
October 7-11, 2024	Midterm Exam week
October 14-18, 2024	Fall break week
October 21, 2024	Classes resume
November 27 - 29, 2024	Thanksgiving Break
December 5, 2024	Fall semester ends

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## **Auditor Only Courses**

### **ASC103 The Major Women Novelists of American Modernism**

**Professor:** Alfred Bendixen

**Description:** An exploration of four short novels by the major American women novelists of the early 20<sup>th</sup> century. Our analysis of theme and technique will engage both feminist issues and modernist techniques with an emphasis on the ways in which narrative experiments with structure and point of view transform conventional plots into powerful works of psychological complexity and social inquiry.

Our course explores four of the most popular and most critically acclaimed novels of the modernist period:

September 13, 2024: Edith Wharton, *Summer* (1917)

September 20, 2024: Willa Cather, *A Lost Lady* (1923)

September 27, 2024: Anita Loos, *Gentlemen Prefer Blondes* (1925)

October 4, 2024: Nella Larsen, *Passing* (1929)

The four short novels we will be reading all achieved critical and commercial success, demonstrating the power and range of their authors as they dramatize the place of women in a rapidly changing world. Edith Wharton is best known for social satires revealing the tragic potential of upper-class urban life, but *Summer* shows her ability to write incisively about the darker side of American rural life. The Wharton revival that was launched with the appearance of RWB Lewis's biography in 1975 rediscovered this book, recognizing it as the hot counterpart to Wharton's colder *Ethan Frome* and as a bold exploration of sexuality and class prejudice. Its penetrating examination of New England village life in a changing world dominated by an aging and increasingly ineffectual patriarchy has made it a feminist classic. In *A Lost Lady*, Willa Cather offers an almost perfectly wrought novel dealing with the passing of the old west in the face of an encroaching and crude materialism, but it also relies on the author's skillful and complex rendition of a male narrator who is unable to see beyond his own idealization of a beautiful woman. Fitzgerald acknowledged it as a major influence on *The Great Gatsby*. Anita Loos' *Gentlemen Prefer Blondes* may be the funniest short novel in American literature, offering an amazing portrayal of a female picaresque heroine and her European travels. James Joyce supposedly saved his failing vision in order to read the installments of this comic masterpiece, which is unfortunately now remembered mostly for the film it inspired. Nella Larsen's *Passing* is one of the masterpieces of the Harlem Renaissance as well as one of the most compelling treatments of passing in our fiction. It is distinguished by a vivid portrayal of urban life, complex characterization, and a graceful but complex style that facilitates its delineation of both the social and psychological dimensions of race and racism.

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**About:** 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. His most recent books include *A Companion to the American Novel*, (Wiley-Blackwell, 2012), *The Cambridge History of American Poetry* (co-edited with Stephen Burt; Cambridge University Press, 2015), and *The Centrality of Crime Fiction in American Literary Culture* (co-edited with Olivia Carr Edenfield); Routledge, 2017). The Library of America volume of Charlotte Perkins Gilman: Novels, Stories & Poems is his latest publication.

**Dates:** Friday's, September 13, 20, 27 and October 4, 2024

**Time:** 10:00 – 11:30 am

**Location:** building and classroom tbd

### ASC104 Democracy in the Age of Trump

**Professor:** Stanley Katz, Professor, School of Public and International Affairs

**Description:** We will first look at the absence of the concept of democracy (as defined by the Greeks and Romans) as it was understood by the American revolutionaries in 1776. They, unlike their French contemporaries, would have called themselves republicans rather than democrats. It was not until the 1830s, in the age of Andrew Jackson, that Americans embraced the concept of democracy, although the corresponding concept of the political community (who is entitled to vote?) was much slower to develop. We will examine the contributions of the Civil War to constitutional development, and then the impact of the age of Progressivism (Teddy Roosevelt and Woodrow Wilson). Finally, we will consider the expansion of democracy in the New Deal (FDR) and the Great Society (LBJ), before asking how to understand America's conservative turn under Ronald Reagan and its love affair with populism in the era of Donald Trump. I hope this will give us all a lot to consider during the 2024 election season. Buckle up your seatbelts!

**Dates:** Thursday's, October 10, 17, 24, 31, 2024

**Time:** 10:30 – 12:00 pm

**Location:** building and classroom tbd

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**About:** Stanley N. Katz's recent research focuses upon recent developments in American philanthropy, the relationship of civil society and constitutionalism to democracy, and upon the relationship of the United States to the international human rights regime.

**ASC105 In Focus: Claude Monet**

**Professor:** Caroline Harris, Princeton Art Museum's Diane W. and James E. Burke Associate Director for Education, and Department of Art and Archaeology

**Description:** Claude Monet's canvases with their characteristic feathery brushstrokes and luminous colors are some of the most recognizable in the history of art. Given his popularity in the twentieth century, it is easy to forget just how innovative and experimental he was an artist. This course will examine his life and work in detail, covering his early lean years, his time in London during the Franco-Prussian War, his relationships with the other Impressionist painters, and his final years at Giverny. Special attention will be paid to works in regional collections, including the Princeton University Art Museum.

1. Young Artist in Paris
2. The War Years
3. Impressionists Unite
4. Monet is Rich

**Dates:** Friday's October 18, 25, November 1, 8

**Time:** 10:00 am – 11:30 am

**Location:** building and classroom tbd

**About:** Caroline Harris has led the Education Department at the Princeton University Art Museum for over two decades. Her main research interest is nineteenth-century French painting, and her most recent publications are "Like a Fish Swimming into Uncharted Waters: An Interview with Zhang Hongtu" in *Artists in Motion: Modern Masterpieces from the Pearlman Collection* and "Alfred Sisley's Portraits of Place" in *Cézanne and the Modern: Masterpieces of European Art from the Pearlman Collection*.

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## **University Courses**

### **AFRICAN AMERICAN STUDIES**

#### **Introduction to African American History**

**AAS 268**

**Professor(s):** Guild, Joshua B.

**Description/Objectives:** This lecture offers an introduction to the major themes, critical questions, and pivotal moments in post-emancipation African American history. It traces the social, political, cultural, intellectual, and legal contours of the Black experience in the United States from Reconstruction to the rise of Jim Crow, through the World Wars, Depression, and the Great Migrations, to the long civil rights era and the contemporary period of racial politics. Using a wide variety of texts, images, and creative works, the course situates African American history within broader national and international contexts.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

### **PROGRAM IN AMERICAN STUDIES**

**(Formerly America Then and Now)**

**Comparative Perspectives on Power, Resistance and Change**

**AMS 101**

**Professor(s):** Beliso-De Jesús, Aisha M. Carruth, Allison Khan, Shamus Rahman

**Description/Objectives:** This course introduces students to methods of American Studies, Asian American Studies and Latino Studies through discussion of some of the signature ideas, events, and debates in and about America's past and present. It presents students various scholarly approaches to 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.

**Schedule:** L01 01:30 PM - 02:50 PM M

### **SCHOOL OF ARCHITECTURE**

#### **History of Architectural Theory**

**ARC 308**

**Professor(s):** Cephas, Jay

**Description/Objectives:** This course introduces a history of architectural theory by way of architectural production in the "western" world from antiquity through 20th century

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modernism. While we will examine an evolution of architectural thought through architectural developments that occurred primarily in Europe and the Americas, those architectures will be contextualized within a broader global history of built environment traditions and practices and framed around recurring themes in the history of architectural production.

**Schedule:** L01 11:00 AM - 11:50 AM M W

### **Introduction to Architectural Thinking ARC 203**

**Professor(s):** Allen, Stanley T.

**Description/Objectives:** 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.

**Other Information:** Architectural thinking will be explored thematically by focusing upon a series of significant debates (historical and contemporary) about tectonics, program, representation, and urbanism. Debates will include history versus utopia, handcrafted versus machine made, generic versus iconic, form versus program, drawing versus scripting, and image versus surface, among others.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

## ART AND ARCHAEOLOGY

### **European Art: Revolutions and Avant-Gardes ART 212**

**Professor(s):** Alsdorf, Bridget

**Description/Objectives:** A broad study of European painting and sculpture from the French Revolution to 1900 with special attention to social, political, and cultural shifts. Themes include art and political turmoil, imperial conquest, the rise of landscape painting, the politics of the nude, and the birth of modernism. Emphasis on major movements, including Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism, and artists including David, Canova, Goya, Vigée-Lebrun, Turner, Courbet, Manet, Monet, Degas, Rodin, Van Gogh, and Cézanne.

**Schedule:** L01 10:00 AM - 10:50 AM T TH

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

**ART 100**

**Professor(s):** Bravo, Monica Cecilia

**Description/Objectives:** 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.

**Schedule:** L01 10:00 AM - 10:50 AM M W

**Introduction to African Art**

**ART 260**

**Professor(s):** Okeke-Agulu, Chika O.

**Description/Objectives:** An introduction to African art and architecture from prehistory to the 20th century. Beginning with Paleolithic rock art of northern and southern Africa, we will cover ancient Nubia and Meroe; Neolithic cultures such as Nok, Djenné and Ife; African kingdoms, including Benin, Asante, Bamun, Kongo, Kuba, Great Zimbabwe, and the Zulu; Christian Ethiopia and the Islamic Swahili coast; and other societies, such as the Sherbro, Igbo, and the Maasai. By combining Africa's cultural history and developments in artistic forms we establish a long historical view of the stunning diversity of the continent's indigenous arts and architecture.

**Schedule:** L01 01:30 PM - 02:20 PM T TH

**Modern and Contemporary Latin Am Art**

**ART 220**

**Professor(s):** Small, Irene Violet

**Description/Objectives:** This course focuses on key issues of 20th and 21st c. Latin American art. A thematic survey and general methodological introduction, we will treat emblematic works and movements, from Mexican muralism and Indigenism to experiments with abstraction, pop, conceptualism, and performance. Questions discussed include: What is Latin American art? What is modernism in Latin America? What is the legacy of colonialism? How do Latin American artists engage transnational networks of solidarity under conditions of repression? How can postcolonial, decolonial, and feminist theory illuminate the art and criticism produced in and about Latin America?

**Schedule:** L01 11:00 AM - 11:50 AM M W



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**ASTROPHYSICAL SCIENCES**

**Planets in the Universe**

**AST 205**

**Professor(s):** Bakos, Gáspár Áron

**Description/Objectives:** 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 SEN course is designed for the non-science major and has no prerequisites past high school algebra and geometry. See [www.astro.princeton.edu/planets](http://www.astro.princeton.edu/planets) for important changes.

**Schedule:** L01 01:30 PM - 02:50 PM T TH

**CHEMICAL AND BIOLOGICAL ENGINEERING**

**Mass, Momentum, and Energy Transport**

**CBE 341**

**Professor(s):** Nelson, Celeste M.

**Description/Objectives:** How do you design a drug delivery system that will kill a tumor but not the patient? What are the major constraints in building a new artificial heart? Why are some cooling systems more efficient than others? A strong understanding of transport phenomena is essential for solving these and other grand challenges facing society. This course combines applied mathematics with fundamental physics to promote an intuitive understanding of steady and unsteady heat and mass transfer and fluid dynamics. We will focus on key applications in processes related to biology, energy, materials, and chemical synthesis.

**Other Information:** The complete title of the textbook by Van den Akker and Mudde - Mass, Momentum and Energy Transport Phenomena: A Consistent Balances Approach

**Schedule:** L01 01:30 PM - 02:50 PM M W

**CIVIL AND ENVIRONMENTAL ENGINEERING**

**Design and Behavior of Steel Structures**

**CEE 467**

**Professor(s):** Garlock, Maria Eugenia Moreyra

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**Description/Objectives:** Topics in the design and analysis of steel structures are covered such as geometric properties and stresses of built-up shapes, columns, beams, and tension members.

**Schedule:** L01 09:00 AM - 09:50 AM M W

**Engineering in the Modern World  
CEE 102A**

**Professor(s):** Littman, Michael G.

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM M W

**Introduction to Environmental Engineering  
CEE 207**

**Professor(s):** Bourg, Ian Charles

**Description/Objectives:** 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 and the global carbon cycle.

**Schedule:** L01 010:00 AM - 10:50 AM T TH

**Mechanics of Solids  
CEE 205**

**Professor(s):** Adriaenssens, Sigrid M.

**Description/Objectives:** 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:** L01 11:00 AM - 12:20 PM M W

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**CHEMISTRY**

**General Chemistry I  
CHM 201**

**Professor(s):** Francis, Sonja Angelique Hecht, Michael H. Mostafavi, Ana

**Description/Objectives:** CHM 201 (Fall) and CHM 202 (Spring) comprise an overview of Chemistry. This sequence serves as the entry level course for concentrators in Chemistry, and for other sciences requiring General Chemistry as a prerequisite. This sequence is also well suited for premedical students. The goal of General Chemistry is to enhance our understanding of our surroundings through a study of matter at the molecular scale. Topics in CHM 201 include chemical reactions, equilibrium, energy and entropy, quantum theory, atomic structure, and chemical bonding.

**Schedule:** L01 11:00 AM - 12:20 PM T TH

**COMPARATIVE LITERATURE**

**Contemporary Latin America in Literature and Visual Arts  
COM 353**

**Professor(s):** Draper, Susana

**Description/Objectives:** This course studies contemporary Latin American & Caribbean literature and visual arts. Looking at the changing relationships between aesthetics and politics, we will analyze how textual and visual works respond to different forms of violence and express other forms of imagining relations among bodies, communities, and territories. Texts will be available in the original & translation. Some classes will take place at the Art Museum study room at Firestone.

**Schedule:** L01 01:30 PM - 04:20 PM T

**Crafting Freedom: Women and Liberation in the Americas  
COM 476**

**Professor(s):** Draper, Susana

**Description/Objectives:** This course explores questions and practices of liberation in writings by women philosophers and poets whose work helped to create cultural and political movements in the U.S. and Latin America. Starting in the 60s, we will study a poetics and politics of liberation, paying special attention to the role played by language and imagination when ideas translate onto social movements related to social justice,

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structural violence, education, care, and the commons. Readings include Gloria Anzaldúa, Angela Davis, Silvia Federici, Diamela Eltit, Audre Lorde, Silvia Rivera Cusicanqui, Gayatri Spivak, Zapatistas, among others.

**Schedule:** L01 01:30 PM - 04:20 PM W

### COMPUTER SCIENCE

#### **Advanced Programming Techniques COS 333**

**Professor(s):** Dondero Jr., Robert M.

**Description/Objectives:** This is a course about the practice of programming. Programming is more than just writing code. Programmers must also assess tradeoffs, choose among design alternatives, debug and test, improve performance, and maintain software written by themselves and others. At the same time, they must be concerned with compatibility, robustness, and reliability, while meeting specifications. Students will have the opportunity to develop these skills by working on their own code and in group projects.

**Schedule:** L01 03:00 PM - 04:20 PM T TH

#### **Computers in Our World COS 109**

**Professor(s):** Kernighan, Brian W.

**Description/Objectives:** 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.

**Other Information:** This course is meant for humanities and social sciences students who want to understand how technology works and how it affects the world they live in. No prior experience with computers is assumed.

**Schedule:** L01 01:30 PM - 02:50 PM M W

#### **Functional Programming COS 326**

**Professor(s):** Appel, Andrew Wilson

**Description/Objectives:** 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

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and applications.

**Schedule:** L01 10:00 AM - 10:50 AM M W

**Introduction to Programming Systems**

**COS 217**

**Professor(s):** Kincaid, Zachary Moretti, Christopher M.

**Description/Objectives:** Developing skills for composing large programs, including modularity, abstraction, programming style, and best practices for code development, testing, debugging, and performance tuning. Additionally, an overview of computing environments and architectures, through the C programming language, assembly language, and machine language.

**Schedule:** L01 10:00 AM - 10:50 AM M W

**EAST ASIAN STUDIES**

**A Monster History of Japan, from Kojiki**

**EAS 345**

**Professor(s):** Marcon, Federico

**Description/Objectives:** This class introduces students to the tradition of monstrous imagination in Japanese history, from the earlier texts of the 8th century to the most recent films. Students will be exposed to a vast array of sources depicting different monstrous creatures. Monsters will function as the meaning-making devices through which students will understand different aspects of Japanese culture through twelve centuries of its history. Far from being simply figures of imagination, the vast coterie of monstrous creatures and phenomena 'interacted' in very concrete ways with people, influencing their political, economic, and social life.

**Schedule:** L01 03:00 PM - 04:20 PM T TH

**Nomadic Empires**

**EAS 280**

**Professor(s):** Wen, Xin

**Description/Objectives:** In telling histories of East Asia, South Asia, the Middle East, and Europe, various groups of nomadic people often loomed large in the background and served as the foil to the travail of their sedentary neighbors. In this course we put the nomadic peoples of Inner Asia front and center and ask how the nomadic way of life and mode of state building served as agents of change in pre-modern Eurasia.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

**The Origins of Japanese Culture and Civilization: A History of Japan until 1600**

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### **EAS 218**

**Professor(s):** Conlon, Thomas

**Description/Objectives:** This course is designed to introduce the culture and history of Japan, and to examine how one understands and interprets the past. In addition to considering how a culture, a society, and a state develop, we will try to reconstruct the tenor of life in "ancient" and "medieval" Japan and chart how patterns of Japanese civilization shifted through time.

**Schedule:** L01 03:00 PM - 04:20 PM M W

## **ECOLOGY AND EVOLUTIONARY BIOLOGY**

### **Life on Earth: Mechanisms of Change in Nature**

#### **EEB 211**

**Professor(s):** Kocher, Sarah D. LeVine, Jonathan M. Sullivan, Katherine Mary

**Description/Objectives:** 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:** L01 11:00 AM - 12:20 PM M W

## **ECONOMICS**

### **Economics of Europe**

#### **ECO 372**

**Professor(s):** Weyerbrock, Silvia

**Description/Objectives:** The European Union (EU) is unique: 27 countries have come together in an (almost) economic union, giving up sovereignty over trade, migration, and money (euro area members) and adopting common policies related to agriculture, regions, competition, energy, and climate change. This course uses economic tools and empirical studies to understand the economics benefits and costs of creating a common market and a monetary union. It assesses whether common policies meet their stated goals such as reducing inequalities or anticompetitive behaviors. It also evaluates the EU's economic response to the euro crisis, immigration, and the war in Ukraine.

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**Schedule:** L01 11:00 AM - 12:20 PM M W

**Introduction to Macroeconomics**

**ECO 101**

**Professor(s):** Blinder, Alan Stuart South, Ruairidh Tennant

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM T TH

**Introduction to Microeconomics**

**ECO 100**

**Professor(s):** Noonan, Kelly

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM M W

**Law and Economics**

**ECO 324**

**Professor(s):** Leonard, Thomas Clark

**Description/Objectives:** An introduction to the economics of law. Application of price theory and welfare analysis to problems and actual cases in common law - property, contracts, torts - and to criminal and constitutional law. Topics include the Coase Theorem, intellectual property, inalienable goods, product liability, crime and punishment, and social choice theory.

**Schedule:** L01 11:00 AM - 12:20 PM T TH

**Macroeconomics**

**ECO 301**

**Professor(s):** Zaidi, Iqbal

**Description/Objectives:** This course covers the theory of modern macroeconomics in detail. We will focus on the determination of macroeconomic variables -- such as output,

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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:** L01 01:30 PM - 02:50 PM T TH

### **Money and Banking**

**ECO 342**

**Professor(s):** Brunnermeier, Markus Konrad

**Description/Objectives:** 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, including FinTech, help to overcome financial frictions, but may lead to financial crisis and bank runs, (4) how monetary and macroprudential policy impact inflation, growth, and financial stability. (5) the international financial architecture, especially the role of the International Monetary Fund.

**Schedule:** L01 01:30 PM - 02:50 PM M W

### **Statistics & Data Analysis for Economics**

**ECO 202**

**Professor(s):** Sandomirskiy, Fedor

**Description/Objectives:** An introduction to probability and statistical methods for empirical work in economics. Probability, random variables, sampling, descriptive statistics, probability distributions, estimation and hypotheses testing, introduction to the regression model.

**Schedule:** L01 01:30 PM - 02:50 PM M W

## **ENGINEERING**

### **Venture Capital & Finance of Innovation**

**EGR 395**

**Professor(s):** Hejazi, Shahram

**Description/Objectives:** 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



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capital.

**Other Information:** This class is by application only. To be considered please submit a detailed description of your professional background and your reason for wanting to take this class. Submit to [pucap@princeton.edu](mailto:pucap@princeton.edu) by August 11, 2024. Submissions after the deadline will not be considered.

**Schedule:** L01 01:30 PM - 04:20 PM F

## ENGLISH

### **19th-Century Fiction**

**ENG 345**

**Professor(s):** Nunokawa, Jeff

**Description/Objectives:** This course will acquaint students with the distinctive features of the nineteenth century novel, from Austen to Hardy. Lectures will seek to illuminate relations between social and aesthetic dimensions of the texts we read. We will consider how these fictional imaginings of things like love, sex, money, class, and race help shape the ways we live now.

**Schedule:** L01 02:30 PM - 03:20 PM M W

### **American Television**

**ENG 275**

**Professor(s):** Gleason, William Albert

**Description/Objectives:** An introduction to the forms and meanings of American television, with an emphasis on watching, thinking, and writing critically about the medium. We will examine a range of structures, styles, and strategies specific to television, including episodic storytelling, the advent of streaming and "peak TV," and the role of television in establishing and sometimes disrupting norms of identity, politics, and aesthetics. The main approach throughout will be close analysis of specific genres, series, and episodes informed by the histories, contexts, and practices that make American television such a significant part of American culture.

**Schedule:** L01 12:30 PM - 01:20 PM M W

### **Graphic Narrative and the Comics Medium**

**ENG 309**

**Professor(s):** Nishikawa, Kinohi

**Description/Objectives:** An introduction to American graphic narrative by way of understanding comics as a medium of textual and visual expression. Readings consist of modern and contemporary works that blur the line between fiction and nonfiction, novel and memoir, memory and history. In reflecting on the medium-specific qualities of comics, the course addresses questions of genre definition, cartoon aesthetics, and

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readerly experience.

**Schedule:** L01 10:00 AM - 10:50 AM T TH

**Shakespeare at the Movies**

**ENG 279**

**Professor(s):** Dolven, Jeff

**Description/Objectives:** Shakespeare wrote for the page and the stage, but the last century has taken him to the movies. This course introduces his language and theatrical imagination through their translation into films, from Romeo and Juliet in Verona Beach to Macbeth in feudal Japan. We will take up Shakespeare's great subjects-love, tyranny, revenge, redemption-while developing our powers of attention to the forms of three media, writing about the plays, acting them out, and making short films of our own as we go. We will study the performance conventions of his time and ask whether there was such a thing as cinematic imagination before the invention of cinema.

**Schedule:** L01 10:00 AM - 10:50 AM M W

**Shakespeare: Toward Hamlet**

**ENG 318**

**Professor(s):** Cormack, Bradin T.

**Description/Objectives:** The first half of Shakespeare's career, with a focus on the great comedies and histories of the 1590s, culminating in a study of Hamlet.

**Schedule:** L01 09:00 AM - 09:50 AM M W

## **GEOSCIENCES**

**Climate: Past, Present, and Future**

**GEO 102A**

**Professor(s):** Sigman, Daniel Mikhail

**Description/Objectives:** 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:** L01 11:00 AM - 12:20 PM T TH

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**PROGRAM IN GENDER AND SEXUALITY STUDIES**

**Introduction to Gender and Sexuality Studies**

**GSS 201**

**Professor(s):** Clune-Taylor, Catherine

**Description/Objectives:** This course is an introduction to the interdisciplinary field of gender and sexuality studies. How do gender and sexuality emerge from networks of power and social relations? And how are they entangled and co-constituted with other axes of identity such as class, race, and ability? As we survey a wide variety of writers, texts, issues, and methods - historical and contemporary, theoretical and practical, artistic and scholarly - we will engage the diversity of thought and approach contained under the rubrics of feminist, gender, sexuality, and queer studies as foundation for further work in the field.

**Schedule:** L01 03:00 PM - 04:20 PM T

**HISTORY**

**20th-Century Japan**

**HIS 322**

**Professor(s):** Garon, Sheldon Marc

**Description/Objectives:** Covering 1868 to the present, this course emphasizes Japan's dramatic rise as the modern world's first non-Western power, imperialism, industrialization, social change, gender relations, democracy, World War II, the U. S. Occupation, the postwar "economic miracle" followed by slow growth, and the preoccupation with national identity in a Western-dominated world. We will think about post-1945 developments in terms of continuities with prewar Japan. We will also hold Japan up as a "mirror" for America, comparing how the two capitalist societies have dealt with inequality, urbanization, health and welfare, and intervention in the economy.

**Schedule:** L01 10:00 AM - 10:50 AM M W

**British Empire in World History 1600-2000**

**HIS 214**

**Professor(s):** Colley, Linda Jane

**Description/Objectives:** Until 1918, empire was the most common form of rule and political organization. This lecture course focuses on England, Wales, Scotland and Ireland, and the Empire these peoples generated after c.1600, and uses this as a lens through which to examine the phenomenon of empire more broadly. How and how far did this small set of islands establish global predominance and when did this fail? What roles did war, race, religion, economics, culture and migration play in these processes? And

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how far do the great powers of today retain characteristics of empire?

**Schedule:** L01 10:00 AM - 10:50 AM M W

**Colonial and Postcolonial Africa**

**HIS 315**

**Professor(s):** Dlamini, Jacob S.

**Description/Objectives:** This course is an examination of the major political and economic trends in twentieth-century African history. It offers an interpretation of modern African history and the sources of its present predicament. In particular, we study the foundations of the colonial state, the legacy of the late colonial state (the period before independence), the rise and problems of resistance and nationalism, the immediate challenges of the independent states (such as bureaucracy and democracy), the more recent crises (such as debt and civil wars) on the continent, and the latest attempts to address these challenges from within the continent.

**Schedule:** L01 01:30 PM - 02:20 PM T TH

**European Intellectual History in the 20<sup>th</sup> Century**

**HIS 369**

**Professor(s):** Baring, Edward George

**Description/Objectives:** In the twentieth century, Europe underwent a range of wrenching social and political upheavals that brought into question received truths about politics, the role of religion, the relationship between the sexes, and the place of Europe in the wider world. Over the course of the semester, we will study a range of different thinkers, including Friedrich Nietzsche, Sigmund Freud, Hannah Arendt, Jean-Paul Sartre, Simone de Beauvoir, Frantz Fanon, Luce Irigaray, and Jacques Derrida, examining how they responded to these upheavals and offered new ways to thinking about the world and our place in it.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

**Information Revolutions**

**HIS 298**

**Professor(s):** Jones, Matthew Laurence

**Description/Objectives:** Surveying key moments from the 19th century to the present, this course tracks how networked communications, numerical calculation, symbolic reasoning, and information processing converged to create contemporary information technologies. The course introduces students to the major kinds of historical inquiry—philosophical, engineering, labor, material, social, gender, legal, and cultural—needed for studying information technologies in the last 150 years. Topics include Silicon Valley, software engineering, PCs, hacking, artificial intelligence, information, cryptography, outsourcing, privacy, information warfare, social networks, surveillance

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**Schedule:** L01 01:30 PM - 02:20 PM T TH

**Modern Eastern Europe, 19th to 20th Century**

**HIS 240**

**Professor(s):** Vushko, Iryna

**Description/Objectives:** This course offers a history of Eastern Europe in the modern era, from the age of Enlightenment and the French revolution in the late 18th century through the present. It covers the territory between today's Italy and Russia, including Ukraine, Belarus, Poland, the Czech Republic, Slovakia, Austria, Hungary, Romania, Serbia, and Bosnia and Herzegovina. Topics include Enlightenment, Romanticism, nationalism, socialism, Zionism, fascism, Nazism, communism, the Holocaust, genocides, Cold War, and post-1991 Europe. The course will incorporate a variety of primary sources, including novels, memoirs, diaries, and the arts as well as several films.

**Schedule:** L01 10:00 AM - 10:50 AM T TH

**Slavery and Democracy in the New Nation**

**HIS 373**

**Professor(s):** Wilentz, Sean

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM T TH

**The Formation of the Christian West**

**HIS 343**

**Professor(s):** Reimitz, Helmut

**Description/Objectives:** The course will focus on the formation of the Christian West from Ireland to the Eastern Mediterranean until ca. 1000 CE. We will start with the insignificance of the Fall of Rome in 476 CE, to move on to much more fundamental changes in the Ancient and medieval world: the Christian revolution in the 4th century, the barbarian successor states in the fifth, their transformation into Christian kingdoms, or the emergence of new nations and states whose names are still on the map today and which all came to be held together by a shared culture defined by the Rise of Western Christendom in the first Millennium.

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**Schedule:** L01 01:30 PM - 02:20 PM M W

**The Mediterranean: From Rome to Fortress Europe**

**HIS 225**

**Professor(s):** Greene, Molly

**Description/Objectives:** Africa, Europe and the Middle East meet at the Mediterranean. This course will look at two millennia of Mediterranean history to see how this sea has been both shared and contested. This course is organized around a geographical entity rather than a political framework such as a state. As such, environmental and maritime history will be a theme running throughout the course.

**Schedule:** L01 10:00 AM - 10:50 AM T TH

**The United States, 1920-1974**

**HIS 383**

**Professor(s):** Kruse, Kevin Michael

**Description/Objectives:** 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 home front 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:** L01 11:00 AM - 11:50 AM M W

**US Intellectual History: The Thinkers and Writers Who Shaped America**

**HIS 375 Professor(s):** Wirzbicki, Peter

**CANCELLED**

**PROGRAM IN HUMANISTIC STUDIES**

**Near Eastern Humanities i: From Antiquity to Islam**

**HUM 247**

**Professor(s):** Haubold, Johannes Krakowski, Eve

**Description/Objectives:** This course focuses on the Near East from antiquity to the early centuries of Islam, introducing the most important works of literature, politics, ethics, aesthetics, religion, and science from the region. We ask how, why, and to what ends the Near East sustained such a long period of high humanistic achievement, from Pharaonic Egypt to Islamic Iran, which in turn formed the basis of the high culture of the following millennium.

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**Schedule:** L01 10:00 AM - 10:50 AM T TH

## **ITALIAN**

### **Topics in Medieval Italian Literature and Culture**

**ITA 302**

**Professor(s):** Marchesi, Simone

**Description/Objectives:** The course focuses on the close reading in the original Latin of a wide selection of 13th and 14th Century Italian writers of hagiographic texts, Church documents, scientific inquiries, epic poetry, as well as of treatises about linguistics, poetics, ethics, and historiography. The course affords an opportunity to explore a representative selection of writings from Dante, Petrarch, and Boccaccio, three canonical medieval Italian writers, whose success as vernacular authors often effaces their remarkable and remarkably successful Latin works.

**Schedule:** L01 11:00 AM - 12:20 PM M

## **LATIN**

### **Horace**

**LAT 331**

**Professor(s):** Feldherr, Andrew

**Description/Objectives:** Close reading of Horace's lyric Odes and iambic Epodes, with attention to his poetic program and techniques, ancient and modern theories of lyric, and the contemporary Augustan context.

**Schedule:** L01 11:00 AM - 12:20 PM MW

## **PROGRAM IN LINGUISTICS**

### **Introduction to Language & Linguistics**

**LIN 201**

**Professor(s):** Fellbaum, Christiane Dorothea

**Description/Objectives:** 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:** L01 10:00 AM - 10:50 AM M W

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**Language in Its Contexts**

**LIN 250**

**Professor(s):** Stuck, Matthew

**Description/Objectives:** This course investigates language in its social, cultural, political, and historical contexts. Does your native language influence your perception, your behavior, and your culture? How does your identity influence the properties of your language? What happens when unrelated languages come into contact for prolonged periods? How are new languages born? Why isn't English the official language of the United States, and should it be? We will explore these questions (and more) by engaging with the often-contradictory opinions of specialists and the public, as well as with the empirical realities behind these different language situations.

**Schedule:** L01 01:30 PM - 02:50 PM M W

**Phonetics and Phonology**

**LIN 301**

**Professor(s):** Lionnet, Florian

**Description/Objectives:** 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.

**Other Information:** No textbook required.

**Schedule:** L01 11:00 AM - 12:20 PM M W

**MATHEMATICS**

**Advanced Graph Theory**

**MAT 477**

**Professor(s):** Chudnovsky, Maria

**Description/Objectives:** Advanced course in Graph Theory. Further study of graph coloring, graph minors, perfect graphs, graph matching theory. Topics covered include stable matching theorem, list coloring, chi-boundedness, excluded minors and average degree, Hadwiger's conjecture, the weak perfect graph theorem, operations on perfect graphs, and other topics as time permits.

**Schedule:** L01 11:00 AM - 12:20 PM T TH



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**Analysis II: Complex Analysis**

**MAT 335**

**Professor(s):** Naor, Assaf

**Description/Objectives:** Study of functions of a complex variable, with emphasis on interrelations with other parts of mathematics. Cauchy's theorems, singularities, contour integration, power series, infinite products. The gamma and zeta functions and the prime number theorem. Elliptic functions, theta functions, Jacobi's triple product and combinatorics. This course is the second semester of a four-semester sequence, but may be taken independently of the other semesters.

**Schedule:** L01 01:30 PM - 02:50 PM T TH

**Applied Algebra**

**MAT 340**

**Professor(s):** Pan, Lue

**Description/Objectives:** 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:** L01 01:30 PM - 02:50 PM M W

**History of Mathematics**

**MAT 101**

**Professor(s):** Kontorovich, Alex

**Description/Objectives:** Throughout the course, we will be studying some of the most beautiful and timeless mathematical problems and solutions (theorems and proofs), and their discoverers, as well as the historical developments that led to each breakthrough. Rather than going deeply into a single complete theory as we understand it today, in this course the material is drawn from a broad variety of sources and topics and arranged roughly chronologically. One should leave this course with a bird's-eye view of many developments in mathematics from antiquity up to the 21st century. This makes the course both fun and interesting, and also challenging.

**Schedule:** L01 11:00 AM - 12:20 PM T TH

**Numerical Analysis and Scientific Computing**

**MAT 321**

**Professor(s):** Gilles, Marc Aurele

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**Description/Objectives:** Introduction to numerical methods with emphasis on algorithms, applications and numerical analysis. Topics covered include solution of nonlinear equations; numerical differentiation, integration, and interpolation; direct and iterative methods for solving linear systems; computation of eigenvectors and eigenvalues; and approximation theory. Lectures include mathematical proofs where they provide insight and are supplemented with numerical demos using MATLAB or Python.

**Other Information:**

Intro course designed for upper class undergraduates and beginning grad students in fields related to applied math and engineering. Special attention paid to numerical analysis and algorithm development. Students will accumulate hands-on experience by programming and running numerical simulations assigned as homework. A substantial amount of time in class is dedicated to mathematical analysis of numerical methods, with proofs.

**Schedule:** L01 01:30 PM - 02:50 PM T TH

**Single Variable Analysis with an Introduction to Proofs**

**MAT 215**

**Professor(s):** Fefferman, Charles Louis

**Description/Objectives:** An introduction to the mathematical discipline of analysis, to prepare for higher-level course work in the department. Topics include rigorous epsilon-delta treatment of limits, convergence, and uniform convergence of sequences and series. Continuity, uniform continuity, and differentiability of functions. The Heine-Borel Theorem. The Riemann integral, conditions for integrability of functions and term by term differentiation and integration of series of functions, Taylor's Theorem.

**Schedule:** L01 11:00 AM - 12:20 PM T TH

**MECHANICAL AND AEROSPACE ENGINEERING**

**Fluid Dynamics**

**MAE 335**

**Professor(s):** Nosenchuck, Daniel Mark

**Description/Objectives:** The course is focused on compressible and incompressible inviscid fluid flow. Compressible subsonic and supersonic flows are studied in the first half of the course. The remaining portion of the semester addresses low-speed, incompressible fluid flows and aerodynamics of two and three-dimensional wings and bodies. Concepts of thrust, lift and drag are introduced and applied.

**Schedule:** L01 08:30 AM - 09:50 AM T TH

**Mechanical Design**

**MAE 322**

**Professor(s):** Nosenchuck, Daniel Mark

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**Description/Objectives:** This course builds on the technical foundations established in MAE 321 and extends the scope to include a range of advanced mechanism designs. Students, working in teams, will be challenged to design and fabricate a robotic system that will draw upon multidisciplinary engineering elements. The robot tasks will be associated with search and rescue operations. CAD, CAE, and CAM will be utilized in the design/simulation/prototype process. Labs are designed to reinforce and expand CAD and CAE skills. A final competition will be held among the design teams.

**Schedule:** L01 08:30 AM - 09:50 AM M W

### **Modern Solid Mechanics**

**MAE 223**

**Professor(s):** Kosmrlj, Andrej

**Description/Objectives:** 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.

**Other Information:** This is an important course for anyone interested in structures.

**Schedule:** L01 11:00 AM - 12:20 PM T TH

## **MOLECULAR BIOLOGY**

### **Biochemistry**

**MOL 345**

**Professor(s):** Hughson, Frederick McLaury

**Description/Objectives:** 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:** L01 10:00 AM - 10:50 AM M W F

### **Intro to Cellular & Molecular Biology**

**MOL 214**

**Professor(s):** Notterman, Daniel A. Thieringer, Heather A.

**Description/Objectives:** 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

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satisfies the biology requirement for entrance into medical school.

**Schedule:** L01 11:00 AM - 12:20 PM M W

## MUSIC

### **The Ballet**

**MUS 223**

**Professor(s):** Morrison, Simon Alexander

**Description/Objectives:** A history of ballet from its origins in the French courts through its development into a large-scale theatrical spectacle in the 19th century and its modernist re- and de-formation. Emphasis will be placed on seminal dancers, choreographers, and composers, nationalist tradition, and socio-political context.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

## NEAR EASTERN STUDIES

### **Muslims and the Qur'an**

**NES 240**

**Professor(s):** Zaman, Muhammad Qasim

**Description/Objectives:** A broad-ranging introduction to pre-modern, modern, and contemporary Islam in light of how Muslims have approached their foundational religious text, the Qur'an. Topics include Muhammad and the emergence of Islam; theology, law and ethics; war and peace; mysticism; women and gender; and modern debates on Islamic reform. We shall examine the varied contexts in which Muslims have interpreted their sacred text, their agreements and disagreements on what it means and, more broadly, their often-competing understandings of Islam and of what it is to be a Muslim.

**Schedule:** L01 10:00 AM - 10:50 AM M W

## NEUROSCIENCE

### **Functional Neuroanatomy**

**NEU 200**

**Professor(s):** Graziano, Michael Steven

**Description/Objectives:** 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

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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:** L01 11:00 AM - 12:20 PM M W

### **Fundamentals of Neuroscience**

**NEU 201**

**Professor(s):** Boulanger, Lisa M.

**Description/Objectives:** An intensive introduction to fundamental topics in neuroscience, including neuronal excitability, synaptic physiology, neural networks, and circuits that mediate perception, action, emotion, and memory. We will examine neuroscience at scales ranging from single neurons to the activity of small sets of neurons, to the organization of brain and behavior. The course will address broad questions including: How does information enter the brain? What neural pathways transmit these signals? How is information processed and used to construct an internal model of reality? How does the brain choose and execute the correct behavioral response?

**Schedule:** L01 01:30 PM - 02:50 PM T TH

### **Mathematical Tools for Neuroscience**

**NEU 314**

**Professor(s):** Engel, Tatiana

**Description/Objectives:** This lecture course will introduce students to the mathematical and computational tools necessary to work with data sets in neuroscience. The primary goal of the course will be to introduce students to key concepts from linear algebra, probability and statistics, and machine learning, with an emphasis on practical implementations via programming. Lectures on each topic will develop relevant mathematical background, derivation of basic results, and examples of applications. The course will include problem sets requiring programming in Python. No prior programming experience is required, though it will certainly be helpful.

**Schedule:** L01 01:30 PM - 02:50 PM T TH

### **Motor Systems**

**NEU 420**

**Professor(s):** Dickerson, Bradley Horatio

**Description/Objectives:** The goal of this course is to introduce students to the field of motor control from an interdisciplinary and comparative biological perspective. We will focus on how organisms move through a complex, unpredictable environment. Major topics will include muscle and limb control, how animals build and execute a motor

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program, and how they incorporate sensory feedback into that motor program. We will use examples from both vertebrate and invertebrate systems and look across scales of biological organization. The class will be a mix of the occasional lecture and discussion of primary literature.

**Schedule:** L01 01:30 PM - 02:50 PM T TH

### **OPERATIONS RESEARCH AND FINANCIAL ENGINEERING**

#### **Computing and Optimization**

**ORF 363**

**Professor(s):** Ahmadi, Amir Ali

**Description/Objectives:** 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:** L01 01:30 PM - 02:50 PM T TH

#### **Energy and Commodities Markets**

**ORF 455**

**Professor(s):** Sircar, Ronnie

**Description/Objectives:** This course is an introduction to commodities markets (oil, gas, metals, electricity, etc.), and quantitative approaches to capturing uncertainties in their demand and supply. We start from a financial perspective, and traditional models of commodity spot prices and forward curves. Then we cover modern topics: game theoretic models of energy production (OPEC vs. fracking vs. renewables); quantifying the risk of intermittency of solar and wind output on the reliability of the electric grid (mitigating the duck curve); financialization of commodity markets; carbon emissions markets. We will also discuss economic and policy implications.

**Schedule:** L01 01:30 PM - 02:50 PM M W

#### **Financial Risk and Wealth Management**

**ORF 435**

**Professor(s):** Tangpi, Ludovic

**Description/Objectives:** This course covers the basic concepts of measuring, modeling and managing risks within a financial optimization framework. Topics include single and multi-stage financial planning systems. Implementation from several domains within asset

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management and goal-based investing. Machine learning algorithms are introduced and linked to the stochastic planning models. Python and optimization exercises required.

**Other Information:** Python software will be required for homework exercises and final.

**Schedule:** L01 11:00 AM - 12:20 PM M W

### **Fundamentals of Statistics**

**ORF 245**

**Professor(s):** Kulkarni, Sanjeev, Ramesh Rigobon, Daniel

**Description/Objectives:** 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:** L01 03:00 PM - 04:20 PM M W

### **Probability and Stochastic Systems**

**ORF 309**

**Professor(s):** Cerenzia, Mark

**Description/Objectives:** 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:** L01 09:00 AM - 09:50 AM M W F

## **PHILOSOPHY**

### **Early Modern Philosophy**

**PHI 332**

**Professor(s):** Garber, Daniel

**Description/Objectives:** This course will focus on philosophy and the Scientific Revolution of the sixteenth and seventeenth centuries. We will read a mixture of philosophical and scientific texts, as well as some contemporary texts in the philosophy of science. We will discuss both the relations between science and philosophy, as well as the way these historical episodes are reflected in more recent philosophical literature.

**Schedule:** L01 01:30 PM - 02:20 PM M W

### **Introduction to Feminist Political Philosophy**

**PHI 210**

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**Professor(s):** Dror, Lidal

**Description/Objectives:** Sexism, misogyny, and gender injustice are grave moral and political wrongs. This course covers a range of key topics in feminist political philosophy that are still essential to contemporary issues. What is oppression? What is sexism? What is gender? How does intersectionality complicate our understanding of these questions? We'll also consider more specific political issues that feminist philosophers have grappled with. What does transnational feminism look like? Are professions which are primarily gender-based compatible with justice? What policies are appropriate to address a gender division of labor?

**Schedule:** L01 10:00 AM - 10:50 AM M W

### PHYSICS

#### **Introductory Physics I**

**PHY 101**

**Professor(s):** Galbiati, Cristiano

**Description/Objectives:** 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:** L01 09:00 AM - 09:50 AM M

#### **General Physics I**

**PHY 103**

**Professor(s):** Ojalvo, Isobel

**Description/Objectives:** To understand the basic physics needed for further study in science and engineering. Logical, quantitative approach to problem solving. Applying fundamental concepts to idealized, practical problems.

**Schedule:** L01 09:00 AM - 09:50 AM T

### POLITICS

#### **American Foreign Policy**

**POL 392**

**Professor(s):** Blair, Christopher William

**Description/Objectives:** This course explores America's role in the world. The goal of



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the class is to help students critically analyze the major dynamics shaping U.S. foreign policy today, as well as to understand theoretical perspectives on foreign policymaking. There are three major elements: a study of the history of American foreign relations since the 19th century; an analysis of the causes of American foreign policy such as the international system, public opinion, and the media; and a discussion of the major policy issues in contemporary U.S. foreign policy, including terrorism, the rise of China, and climate change.

**Other Information:** Basic familiarity with international relations theory will be useful but is not required.

**Schedule:** L01 11:00 AM - 11:50 AM M W

### **American Politics**

**POL 220**

**Professor(s):** Staszak, Sarah Lynn

**Description/Objectives:** An introduction to the institutions and political processes of American government and democracy. Topics will include the Constitution and American political tradition, federalism, political institutions, elections and representation, interest groups and social movements, civil rights and liberties, and the politics of public policy.

**Schedule:** L01 09:00 AM - 09:50 AM M W

### **Chinese Politics**

**POL 362**

**Professor(s):** Truex, Rory

**Description/Objectives:** This course provides an overview of China's political system. We will begin with a brief historical overview of China's political development from 1949 to the present. The remainder of the course will examine the key challenges facing the current generation of CCP leadership, focusing on prospects for democratization and political reform. Among other topics, we will examine factionalism and political purges; corruption; avenues for political participation; village elections; public opinion; protest movements and dissidents; co-optation of the business class; and media and internet control.

**Schedule:** L01 03:30 PM - 04:20 PM M W

### **Constitutional Interpretation**

**POL 315**

**Professor(s):** George, Robert Peter

**Description/Objectives:** A study of the structure of the American constitutional system and of the meaning of key constitutional provisions. Students will critically evaluate

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competing theories of, and approaches to, constitutional interpretation.

**Schedule:** L01 11:00 AM - 12:20 PM T

**Global Justice**

**POL 313**

**Professor(s):** Beitz, Charles R.

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM T TH

**Policy Making in America**

**POL 329**

**Professor(s):** Cameron, Charles M.

**Description/Objectives:** This course provides a realistic introduction to how public policy is made in the United States. It examines how people and political institutions come together to create and implement public policy. The course combines cutting edge social science with cases, simulations, and role-playing exercises to provide students with concrete skills and practical tools for actual policy making.

**Schedule:** L01 01:30 PM - 02:20 PM T TH

**Political Economy**

**POL 349**

**Professor(s):** Gieczewski, German Sergio

**Description/Objectives:** 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:** L01 02:30 PM - 03:20 PM M W

**Race and Politics in the United States**

**POL 344**

**Professor(s):** Stephens-Dougan, LaFleur

**Description/Objectives:** African Americans in the United States have encountered myriad barriers to their quest for inclusion. Drawing on a mix of history and social

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science, we will come to understand why certain segments of America oppose the full inclusion of African Americans. We will also discuss the political strategies undertaken by the Black community to combat social, political, and economic injustices. The first half of the course will focus on historical antecedents such as the civil rights movement and the Black Power movement. The second half of the course will focus on the nature of contemporary racial attitudes in the 21st century.

**Schedule:** L01 03:30 PM - 04:20 PM M W

**The Just Society**

**POL 307 Professor(s):** Patten, Alan W.

**CANCELLED**

## PSYCHOLOGY

**Cognitive Neuroscience of Selective Attention**

**PSY 316**

**Professor(s):** Buschman, Timothy J.

**Description/Objectives:** Attention is our ability to select information relevant to behavior; focusing our limited cognitive/neural resources on those stimuli and thoughts that are critical to our current task. This course will review the neuroscience of selective attention, from the theoretical foundations provided by cognitive psychology to the neural underpinnings identified by systems neuroscience. The course will present a 'hands on' science experience, combining experimental demonstrations and discussions of current research topics to learn the design and analyses of contemporary experiments in the attention field.

**Schedule:** L01 01:30 PM - 2:20 PM M W

**Introduction to Psychology**

**PSY 101**

**Professor(s):** Cooper, Joel

**Description/Objectives:** The study of human nature from the viewpoint of psychological science. Topics range from the biological bases of human perception, thought and action to the social-psychological determinants of individual and group behavior. This course can be used to satisfy the science and technology with laboratory general education requirement.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

**Psychology of Language**

**PSY 309**

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**Professor(s):** Goldberg, Adele E.

**Description/Objectives:** The cognitive processes underlying the use and understanding of language, and in learning to speak. Topics include speech production and perception, grammar and meaning, knowledge and words, and pragmatic aspects of language.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

**Social Cognition: Interactive Minds  
PSY 304**

**Professor(s):** Coman, Alin I.

**Description/Objectives:** Individuals are rarely isolated from one another. In our day-to-day lives, social interaction is ubiquitous, from communicating with one another, to jointly remembering the past, to coordinating our actions. Exploring humans in social interaction - as this course aims to do - will lead to significant advances in understanding the mind. It will also teach you how to be a more efficient and persuasive communicator, create more meaningful connections with others, and focus your motivation to achieve your goals.

**Other Information:** This course will require student participation in demonstrations and in designing (fun) experiments aimed at exploring how social interactions shape cognition, and, through these influences, impact larger communities. It also involves several workshops on persuasive communication, connecting with others and achieving goals.

**Schedule:** L01 11:00 AM - 11:50 AM M W

## RELIGION

**'Cult' Controversies in America  
REL 271**

**Professor(s):** Weisenfeld, Judith

**Description/Objectives:** In this course we examine a variety of new religious movements that tested the boundaries of acceptable religion at various moments in American history. We pay particular attention to government and media constructions of the religious mainstream and margin, to the politics of labels such as "cult" and "sect," to race, gender, and sexuality within new religions, and to the role of American law in constructing categories and shaping religious expressions. We also consider what draws people to new religions and examine the distinctive beliefs, practices, and social organizations of groups labeled by outsiders as "cults."

**Schedule:** L01 11:00 AM - 11:50 AM M W

**Christian Ethics and Modern Society**

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**REL 261**

**Professor(s):** Gregory, Eric Sean

**Description/Objectives:** With a focus on contemporary controversies in public life, this course surveys philosophical and theological perspectives on the ethos of liberal democracy oriented toward rights, equality, and freedom. For example, what do Christian beliefs and practices imply about issues related to feminism, racism, nationalism, and pluralism? What is the relationship between religious conviction, morality and law? Special emphasis on selected political and economic problems, bioethics, criminal justice, sexuality, the environment, war, immigration, and the role of religion in American culture.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

**Judaism, Christianity, & Islam**

**REL 244**

**Professor(s):** Vidas, Moulie

**Description/Objectives:** This course traces the emergence of the traditions we now call Judaism, Christianity, and Islam: their first communities, texts, images, and values. Students will learn to examine their histories critically, identify patterns across traditions, uncover the way these traditions shaped one another, trace the developments of beliefs and practices from their earlier forms, and analyze the social and political factors that informed these developments.

**Schedule:** L01 11:00 AM - 11:50 AM T TH

**Religion and Reason**

**REL 264**

**Professor(s):** McDougal, Austen Drew

**Description/Objectives:** An examination of the most influential theoretical, pragmatic, and moral arguments regarding the existence and nature of God (or gods). Along the way, we consider debates about whether and how we can talk or think about such a being, and about whether mystical experience, miracles, and the afterlife are intelligible notions. Finally, we consider whether religious commitment might be rationally acceptable without any proof or evidence, and whether the real-world fact of religious diversity has philosophical implications. Course readings will be taken from both historical and contemporary sources.

**Schedule:** L01 02:30 PM - 03:20 PM M W

**SCHOOL OF PUBLIC & INTERNATIONAL AFFAIRS**

**China's Foreign Relations**

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**SPI 316**

**Professor(s):** Flaherty, Martin S.

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM M W

**Financial History**

**SPI 466**

**Professor(s):** James, Harold

**Description/Objectives:** 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:** L01 11:00 AM - 12:20 PM M W

**International Development**

**SPI 302**

**Professor(s):** Adsera, Alicia

**Description/Objectives:** This course focuses on less developed countries. Covered topics include economic growth; economic inequality, poverty and personal well-being; the role of foreign aid; credit markets access and microfinance institutions; population change, determinants of fertility, and gender inequality; health and education provision, and labor markets. The course tackles these issues both theoretically and empirically.

**Schedule:** L01 09:00 AM - 09:50 AM T TH

**Introduction to Public Policy: Authority**

**SPI 298**

**Professor(s):** Marquis, Susan Lynn

**Description/Objectives:** Course provides an introduction to public policy, concepts, tools, and applications. SPI 298 takes on questions such as: What is policy and who

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makes it? What are the major elements of policy? What tools and methods are used in policy design and analysis? What are examples of the range of policy challenges and solutions? Policy topics may include poverty, housing, war, economic development, inequity and inequality, workers' rights, child health, opioids, immigration, civil rights and democracy. Policy design tools include system mapping, stakeholders, power types and relationships, implementation, and unintended consequences.

**Schedule:** L01 03:00 PM - 04:20 PM T TH

### **Psychology of Decision Making/Judgment**

**SPI 340**

**Professor(s):** Shafir, Eldar

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM T TH

### **Race and Public Policy**

**SPI 331**

**Professor(s):** White, Ismail K.

**Description/Objectives:** Analyzes the historical construction of race as a concept in American society, how and why this concept was institutionalized publicly and privately in various arenas of U.S. public life at different historical junctures, and the progress that has been made in dismantling racialized institutions since the civil rights era.

**Schedule:** L01 10:00 AM - 10:50 AM T TH

### **The Ethical Policy Maker**

**SPI 368**

**Professor(s):** Buckinx, Barbara, Chris Jan

**Description/Objectives:** How do we evaluate whether a particular public policy is good or bad? Which goals should public policies serve? From Deferred Action for Childhood Arrivals (DACA) to the World Health Organization's pandemic treaty, public policies cannot be properly understood without exploring the political and moral values that underpin them. This course asks what it means to think ethically about public policies. Each week, it introduces a domestic or international public policy, pairing it with relevant scholarship in ethics to better understand what is at stake. Students are invited to consider how they would improve or replace the policies in question.

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**Schedule:** L01 10:00 AM - 10:50 AM M W

## **SOCIOLOGY**

### **Class and Culture**

**SOC 369**

**Professor(s):** Nelson, Timothy J.

**Description/Objectives:** Examines the cultures of classes within American society and asks to what extent people's identities, relationships, or chances for social mobility are shaped by their class culture. Looks at high and popular culture as well as mass media, paying attention to patterns of cultural consumption ("taste") and asks how these patterns work to reproduce the class structure.

**Schedule:** L01 11:00 AM - 11:50 AM M W

### **Introduction to Sociology**

**SOC 101**

**Professor(s):** Chan, Kyle

**Description/Objectives:** 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:** L01 11:00 AM - 11:50 AM T TH

### **Urban Sociology**

**SOC 210**

**Professor(s):** Fernández-Kelly, Patricia

**Description/Objectives:** By taking a comparative approach, this course examines the role of social, economic, and political factors in the emergence and transformation of modern cities in the United States and selected areas of Latin America. We consider the city in its dual image: both as a center of progress and as a redoubt of social problems, especially poverty. Attention is given to spatial processes that have resulted in the aggregation and desegregation of populations differentiated by social class and race.

**Schedule:** L01 10:00 AM - 10:50 AM M W

## **STATISTICS & MACHINE LEARNING**



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**Artificial Intelligence**

**SML 354**

**Professor(s):** Leslie, Sarah-Jane

**Description/Objectives:** This course offers an introduction to deep learning, which is the core technology behind most modern AI applications, aimed at students with minimal coding experience/mathematical background. Emphasis will be placed on gaining a conceptual understanding of deep learning models and on practicing the basic coding skills required to use them in simple contexts. By the end of the course, students will be able to understand, code and train a variety of basic deep learning models, including basic neural nets, image recognition models, and natural language processing models. As a capstone, students will build their own tiny GPT-style text generator.

**Schedule:** L01 11:00 AM - 11:50 AM T TH