CAP LECTURE LIST

Fall 2022 Classes

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

Telephone (609)258-0202

Email: PUCAP@princeton.edu

Website: https://community.princeton.edu
University Class tuition $200 per course, per semester. Auditor Only Series tuition $125 per course.

To receive a refund when dropping a course, you must notify the CAP office in writing (email acceptable) on or before Wednesday, September 14, 2022, by 5:00 pm.

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 3 University classes plus the Auditor Only classes.

**Wednesday, August 24, 2022**
- **Home/Off-site online registration opens at 11a.m.** – Day 1 ends on 8/25/2021 at 10:30 am
  - Day 1 Activated auditors only, one course limit
- **In-person onsite registration is not available at this time.**

**Thursday, August 25, 2022**
- **Home/Off-site online registration opens at 11a.m.** – Day 2 ends on 8/26/2021 at 10:30 am
  - Day 2 Activated auditors only, one course limit
- **In-person onsite registration is not available at this time.**

**Friday, August 26, 2022**
- **Home/Off-site online registration opens at 11a.m.** – for all activated auditors
- **In-person onsite registration is not available at this time.**

**Friday, August 26 – Friday, September 16, 2022**
Registration remains open for all auditors online through the first two (2) weeks of classes for courses with space available.

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<th>Wednesday, September 6</th>
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ASC100  Ways to Listen to Western Music  
Professor: Scott Burnham, Professor of Music, Emeritus

**Description:** This course will offer ways to sharpen the experience of listening to Western music. We will begin by identifying some of the features of music that help make it such a powerful human experience. We will then trace these features as they arise in music from different eras and in different genres. The course will conclude with a presentation of various listening strategies, as well as a consideration of testimonies about listening to music from a number of prominent figures, all of whom feature in the recent book *Ways of Hearing: Reflections on Music in 26 Pieces* (edited by Scott Burnham, Marna Seltzer and Dorothea von Moltke, Princeton University Press, 2021).

**Dates:** Friday's, October 7, 14, 21, 28 2022  
**Time:** 11:30 am-1:00 pm (feel free to eat your lunch during class)

Scott Burnham is Distinguished Professor of Music at the CUNY Graduate Center and Scheide Professor of Music History Emeritus at Princeton University. His teaching and research centers on issues of music criticism, analysis, and reception; historical music theory of the 18th- through 20th centuries; and the music of Western composers such as Haydn, Mozart, Beethoven, Schubert, and Schumann. Burnham’s best-known books are *Beethoven Hero* (1995), a study of the values and reception of Beethoven’s heroic-style music, and *Mozart’s Grace* (2013), on beauty in the music of Mozart. He is the grateful recipient of various honors, including Princeton University’s Howard T. Behrman Award for Distinguished Achievement in the Humanities, the Society of Music Theory’s Wallace Berry Award for *Beethoven Hero*, and the American Musicological Society’s Otto Kinkeldey Award for *Mozart’s Grace*.

Devoted to the challenge of speaking about music to general audiences, Burnham lectures regularly for Princeton University Concerts, and he has presented pre-concert talks for Lincoln Center in New York, McCarter Theatre in Princeton, the Bard Music Festival, the Cleveland Orchestra, and the Chicago Symphony Orchestra.

ASC200  Fiction of New York City  
Professor: Alfred Bendixen, Professor, Department of Gender and Sexuality Studies

**Description:** New York City possesses a special place in the American imagination. It is the site of enormous aspirations, a place where immigrants come to make their fortune and artists come to make their reputation. It is also the place where the economic and social divisions of the United States emerge most clearly in the disparity between the rich and the poor. Thus, New York embodies both the best possibilities of the American Dream of transformation and the cruel realities of poverty, racism, and social injustice. This course explores four novels that demonstrate the various ways in which the fiction of New York City embraces the diversity, possibilities, and realities of American life.

- November 4: Betty Smith, *A Tree Grows in Brooklyn* (1943)
Our exploration begins with E.L. Doctorow’s *Ragtime*, one of the finest historical novels in American literature. Its powerful treatment of immigration, racism, and social change during the first decades of the 20th century rests on a remarkable blending of historical foundation and imaginative vision. Our investigation then shifts radically as we plunge into the supernatural horror of Victor LaValle’s brilliant *The Ballad of Black Tom*, a bold rewriting of H.P. Lovecraft’s “The Horror at Red Hook.” We find a more optimistic vision of the possibilities of New York life in Betty Smith’s huge best-seller *A Tree Grows in Brooklyn*, a lovingly detailed rendition of a young girl’s growth to maturity and escape from poverty. We wrap up with Ling Ma’s *Severance*, a finely wrought satire of consumer capitalism placed into a new kind of zombie apocalypse (pandemic) novel.

These texts provide new and very different ways of looking at race, class, sexuality, gender, and the whole process of growing up and growing older in an urban and sometimes urbane landscape. These amazing books vary in length, in tone, in genre, but they share a commitment to moving the reader into a fuller confrontation with New York City and the wider American culture it embodies.

**Dates:** Friday’s, September 23, October 7, November 4 & 18, 2022
The class dates are not consecutive. They are designed to give auditors sufficient time to read the books.

**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. 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). His Library of America edition of the fiction and poetry of Charlotte Perkins Gilman will appear in August 2022.
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PROGRAM IN AMERICAN STUDIES

America Then and Now
AMS 101
Professor(s): Gleason, William Albert Huerta, Monica Khan, Shamus Rahman

Description/Objectives: This course introduces students to methods of American 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 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.
ART AND ARCHAEOLOGY

European Art: Revolutions and Avant-Gard
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. This class was formerly known as "Neoclassicism through Impressionism."

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

Modern and Contemporary Latin American 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 10:00 AM - 10:50 AM M W

Renaissance Art and Architecture
ART 233
Professor(s): Mangone, Carolina Yerkes, Carolyn

Description/Objectives: What was the Renaissance, and why has it occupied a central place in art history? Major artistic currents swept Europe during the fourteenth through sixteenth centuries, an age that saw the rise of global trade, the development of the nation state, and the onset of mass armed conflict. To explore the art of this period, we consider themes including religious devotion, encounters with foreign peoples and goods, the status of women, and the revival of antiquity. We study artists including Michelangelo and Leonardo da Vinci as well as some
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who may be less familiar. Precepts visit campus collections of paintings, prints, drawings, and maps.

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

Roman Architecture
ART 201
Professor(s): Koortbojian, Michael

Description/Objectives: An introduction to the architecture of the Romans from the 8th century BCE through the 4th century CE. This course will provide an historical overview of the subject, analyzing how new building designs and technologies became, over time, standard Roman practice, alongside close studies of exceptional monuments in the city of Rome. Topics will include city planning; engineering technique; acquisition of building materials; the transformation of the building trades; and the full breadth of Roman structures from houses to temples.

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

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 for important changes

Other Information: Students will be involved in telescopic observations and astrophotography. Some of these will be during selected lectures (in the daytime, e.g. observing the Sun and Venus), and others will be in the evenings (e.g. Jupiter, Saturn, Uranus, Neptune). OTHER: group activities: observing. Participation on at least one star party required for passing the course.

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

CHEMICAL AND BIOLOGICAL ENGINEERING

Enzymes
CBE 419
Professor(s): Link, A. James
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Description/Objectives: Enzymes are the engines that fuel life, catalyzing a vast array of different chemical reactions. This course will focus first on enzyme kinetics and the structural biology of enzymes. With these tools we will next move to a series of case studies about different enzymes and enzyme families.

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

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.

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

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 10:00 AM - 10:50 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
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Intro to Water Pollution Technology
CEE 471
Professor(s): Jaffé, Peter R.

Description/Objectives: An introduction to the science of water quality management and pollution control in natural systems; fundamentals of biological and chemical transformations in natural waters; identification of sources of pollution; water and wastewater treatment methods; fundamentals of water quality modeling.

Schedule: L01 08:30 AM - 09:50 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 12:30 PM - 01:20 PM M W F

CLASSICS

Classical Mythology
CLA 212
Professor(s): Feldherr, Andrew Mark

Description/Objectives: 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: L01 01:30 PM - 02:20 PM T TH

Pompeii
CLA 250
Professor(s): Cheung, Caroline

Description/Objectives: The astonishing preservation of Pompeii has captured popular imagination ever since it was rediscovered beginning in the 1700s. This course will uncover the urban fabric of the city. We will look at its layout, at public and private buildings and their decoration, and at the wider cultural, geographical and historical contexts. Using physical remains alongside texts in translation, we will explore aspects of the lives of the inhabitants, including entertainment,
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housing, religion, economy, slavery, political organization and expression, roles played by men and women inside and outside the family, and attitudes towards death.

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

COMPARATIVE LITERATURE

Contemporary Latin America in Literature  
COM 353  
Professor(s): Draper, Susana

Description/Objectives: This course studies contemporary Latin American and Caribbean literature and visual arts. Placing emphasis on the changing relationships between aesthetics and politics, it analyzes literary and visual genres and styles that emerge with new forms of imagining the relations between culture and politics since the sixties. Readings include critical texts on testimony, literature and arts dealing with different forms of violence in the configuration of the global world. Class taught in English; readings and written assignments can be done in English or Spanish.

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

Great Books from Little Languages  
COM 351  
Professor(s): Bellos, David Michael

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

COMPUTER SCIENCE

Advanced Programming Techniques  
COS 333  
Professor(s): Dondero Jr., Robert M. Walker, David P.

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 & others. At the same time, they must be concerned with compatibility, robustness, and reliability, while meeting
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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.

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

Distributed Systems
COS 418
Professor(s): Lloyd, Wyatt A.

Description/Objectives: This course covers the design and implementation of
distributed systems. Students will gain an understanding of the principles and
techniques behind the design of modern, reliable, and high-performance distributed
systems. Topics include server design, network programming, naming, concurrency
and locking, consistency models and techniques, and fault tolerance. Modern
techniques and systems employed at some of the largest Internet sites (e.g., Google,
Facebook, Amazon) will also be covered. Through programming assignments,
students will gain practical experience designing, implementing, and debugging
real distributed systems.

Other Information: **This course will meet for joint lectures with COS 518.

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

Introduction to Machine Learning
COS 324
Professor(s): Fong, Ruth Catherine Narasimhan, Karthik

Description/Objectives: Provides a broad introduction to different machine
learning paradigms and algorithms, providing a foundation for further study or
independent work in machine learning, artificial intelligence, and data science.
Topics include linear models for classification and regression, support vector
machines, neural networks, clustering, principal components analysis, Markov
decision processes, planning, and reinforcement learning.

Schedule: L01 11:00 AM - 12:20 PM T TH
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Introduction to Programming Systems
COS 217
Professor(s): Moretti, Christopher M.

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

Mathematics for Numerical Computing
COS 302
Professor(s): Adams, Ryan P.

Description/Objectives: This course provides a comprehensive and practical background for students interested in continuous mathematics for computer science. The goal is to prepare students for higher-level subjects in artificial intelligence, machine learning, computer vision, natural language processing, graphics, and other topics that require numerical computation. This course is intended for students who wish to pursue these more advanced topics, but who have not taken (or do not feel comfortable with) university-level multivariable calculus (e.g., MAT 201/203) and probability (e.g., ORF 245 or ORF 309). See "Other Information"

Other Information: Topics will include vectors, matrices, norms, orthogonality, projection, eigenvalues, singular value decomposition, basic vector calculus, introductory probability, Monte Carlo, information theory, convex optimization, Lagrange multipliers, and gradient descent. Assignments will have both conceptual and coding components. Students will complete the coding portions in Python. Familiarity with programming will be assumed, but expertise in Python is not required.

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

EAST ASIAN STUDIES

Nomadic Empires From the Scythian Confederation to the Mongol Conquest
EAS280
Professor(s): Wen, Xin

Description: 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 M W
ECONOMICS

Econometrics  
ECO 302  
Professor(s): Honoré, Bo E.

Description/Objectives: Develop facility with basic econometric methods and the ability to apply them to actual problems and understand their application in other substantive course work in economics.

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

Econometrics: A Mathematical Approach  
ECO 312  
Professor(s): Plagborg-Moller, Mikkel

Description/Objectives: This course is an introduction to econometrics. Econometrics is a sub-discipline of statistics that provides methods for inferring economic structure from data. This course has two goals. The first goal is to give you means to evaluate an econometric analysis critically and logically. Second, you should be able to analyze a data set methodically and comprehensively using the tools of econometrics.

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

Economics of the Labor Market  
ECO 331  
Professor(s): Ashenfelter, Orley Clark

Description/Objectives: To provide a general overview of labor markets. Covering labor force participation, the allocation of time to market work, migration, labor demand, investment in human capital (education, on-the-job training), discrimination, unions and unemployment. The course will also examine the impact of government programs (such as unemployment insurance, minimum wages, or a negative income tax) on the labor market.

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

Financial Risk Management  
ECO 491  
Professor(s): Ibsen Rodrigues de Almeida, Caio

Description/Objectives: Risk management systems are fundamental tools for investment banks, asset management firms and hedge funds. The objective of this course is to offer a comprehensive modern view of a risk management system. This is a hands-on computational course that mixes theory with practical solutions to issues appearing in financial firms. We cover detailed topics related to market and credit risks. On a more modern basis, time allowing, we will talk about systemic
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risk and machine learning applications to risk management.

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

Introduction to Macroeconomics  
ECO 101
Professor(s): Blinder, Alan Stuart

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 the 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

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 help to overcome financial frictions, but may lead to financial crisis and bank runs, (4) how monetary and macroprudential policy
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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: L01 01:30 PM - 02:50 PM M W

Organization and Design of Markets
ECO 325
Professor(s): Kastl, Jakub

Description/Objectives: 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: Analyze trading with asymmetric information, the role of platforms and digital currencies. 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: L01 11:00 AM - 12:20 PM T TH

Strategy and Information
ECO 418
Professor(s): Gul, Faruk R.

Description/Objectives: In this course on game theory and information economics, tools of decision making under uncertainty such as expected utility theory and Bayesian revision are studied and applied to the analysis of strategic interactions. Applications include auctions, bargaining, repeated games and mechanism design.

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

ECOLOGY AND EVOLUTIONARY BIOLOGY

Immune Systems: Molecules to Populations
EEB 327
Professor(s): Graham, Andrea Linn

Description/Objectives: How do immune systems work, and why do they work as they do? Why is there so much immunological polymorphism? To address these questions, students will examine immunology across multiple biological scales. At the molecular and cellular scales, students will learn mechanisms by which animals recognize and kill parasites. At the population scale, students will investigate causes of immunological heterogeneity. Both the clinical relevance (including to COVID-19) and the evolutionary basis of heterogeneity will be emphasized.
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Schedule: L01 08:30 AM - 09:50 AM T TH

Life on Earth: Mechanisms of Change
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

ENGINEERING

Designing Ventures To Change the World
EGR 488
Professor(s): Danner, John David

Description/Objectives: Princeton's motto: 'In the nation's service and the service of humanity.' Inspiring, but what does it mean for people interested in addressing important global challenges through socially-minded entrepreneurship and innovation? We will explore how for-profit or non-profit social-benefit ventures can do well and do good - helping communities to become self-reliant and prosperous while confronting inequality, global climate change, food insecurity, injustice and other problems. We will examine models for durable social ventures, engage with entrepreneurs, and develop your own solution ideas for the problems and communities you care about.

Schedule: L01 01:30 PM - 04:20 PM M

Foundations: Mechanics, Energy and Waves
EGR 151
Professor(s): Gmachl, Claire F.

Description/Objectives: This course covers mechanics, energy, waves, and introductory thermodynamics within the framework of understanding and developing engineering solutions to grand challenges; i.e. the focus is on the role an engineer plays in responding to grand challenges and the physics foundations that are at their disposal. The laboratory component comprises projects designed especially for the engineering-minded student, focusing on design and building, problem solving, and entrepreneurship.

Schedule: L02 09:00 AM - 09:50 AM F
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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 capital.

Other Information: This class is by application only. To be considered please submit a detailed description of your background and your reason for wanting to take this class. Submit to pucap@princeton.edu by August 1, 2022.

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

ENGLISH

Conspiracy in America
ENG 261
Professor(s): Chaudhary, Zahid Rafiq

Description/Objectives: How do we analyze conspiracy narratives and conspiratorial thinking at a moment when the government spies on its citizens and profitable technology companies have turned surveillance itself into an economic necessity? Under what historical, political, and economic conditions do conspiracies proliferate? In this course we analyze conspiracies, paranoia, rumors, and the contemporary economies of dis/information and post-facts. Course material will be drawn from American history, from the 19th century to the present, and will include manifestos, films, novels, online fora, and theoretical texts in psychoanalysis, narrative theory and politics.

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

Shakespeare: Toward Hamlet.
ENG 320
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

The Bible as Literature
ENG 390
Professor(s): Smith, D. Vance
Community Auditing Program Courses
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Description/Objectives: The Bible created and divided the world. This course explores that deep history by examining how the Bible itself was shaped: when, how, and by whom it was written; how it recorded and reworked history; how it responded to and changed politics and culture; how it gave birth to the way we read everything today. No experience with literature or the Bible is necessary. Short exercises will show how to read translations closely, and how to work with the original Hebrew and Greek versions.

Other Information: Even if you do not know Hebrew or Greek (and you do not need to), you will learn how to study Biblical texts in the original languages.

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

ENERGY STUDIES

Designing Sustainable Systems: Responding to the Pandemic in the Information Age
ENE202
Professor(s): Meggers, Forrest

Description/Objectives: The course presents anthropogenic global changes and their impact on sustainable design. The course focuses on understanding the underlying principles from natural and applied sciences, and how new basic Internet of Things digital technology enables alternative system analysis and design. Material is presented in 2 parts: 1) Global Change and Environmental Impacts: studying our influences on basic natural systems and cycles and how we can evaluate them, and 2) Designing Sustainable Systems: addressing challenges of disease transmission in our built environment using sensors and data to rethink how we design and use space.

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

ENERGY STUDIES

Inequality and Sustainability in India and USA: An Interdisciplinary Global Perspective
ENV343
Professor(s): Ramaswami, Anu

Description/Objectives: This course addresses inequality in the context of sustainability, focusing on India with comparison to the USA and global trajectories. Students will explore social inequality and inequality in access to basic services; exposure to environmental pollution and climate risks; participation in governance; and overall outcomes of sustainability, health and wellbeing. They will learn key theoretical frameworks underpinning inequality and equity, measurement approaches, and explore emerging strategies for designing equitable sustainability transitions, drawing upon engineering, spatial planning, public health, and policy perspectives.

Schedule: L01 08:30 AM - 09:50 AM M W
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2022-2023 Fall

GEOSCIENCES

Climate: Past, Present, and Future
GEO102A
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

Data, Models, and Uncertainty in the Natural Sciences
GEO 422
Professor(s): Simons, Frederik Jozef

Description/Objectives: This course is for those who want to turn data into models and subsequently evaluate their uniqueness and uncertainty. Three main topics are: 1. Elementary inferential statistics, 2. Model parameter estimation via matrix inverse methods, and 3. Time series analysis and Fourier spectral density estimation. Problem sets and computer programming exercises form integral parts of the course. While the instructor's and textbook examples will be derived mostly from the physical sciences, students are encouraged to bring their own data sets for discussion. Prior programming experience in MATLAB is helpful but not required.

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

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
Community Auditing Program Courses
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Colonial Latin America to 1810
HIS 303
Professor(s): Candiani, Vera Silvina

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

Early Modern China
HIS 324
Professor(s): Bian, He

Description/Objectives: This course surveys the history of China between 1400 and 1800, tracing the foundation and decline of the Ming dynasty, the consolidation of Manchu rule till the end of the High Qing era. The main aims are 1) to understand the tremendous changes in Chinese society during this period 2) to see the continued relevance of China's recent imperial past in its contemporary existence. Topics discussed include governance, morality, family life, religion, and ethnicity.

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

Europe from Antiquity to 1700
HIS 211
Professor(s): Grafton, Anthony Thomas

Description/Objectives: This course traces an epic story: How Greeks and Romans, Jews and Christians, nobles and merchants, princesses and servants, serfs and slaves built what is now called Western Civilization.

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

Modern Eastern Europe, 19th to 20th Century
HIS 301
Professor(s): Vushko, Iryna

Description/Objectives: 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;
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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: L01 09:00 AM - 09:50 AM T TH

Pre-Colonial India: Politics, Religion,
HIS 332
Professor(s): Cherian, Divya

Description/Objectives: What was social, cultural, economic, and political life in South Asia like before colonial modernity? This class will explore the medieval and early modern periods in the history of the Indian sub-continent, spanning the years 1000-1800 CE and traversing through such chapters as the establishment of the first Muslim polities in India, the growing integration of South Asia into global networks of circulation and exchange, and the birth and death of cultural practices in this dynamic environment. It will examine the changing relationship between India and the rest of the world, concluding with the British conquest of the region.

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

The Colonization of North America
HIS 371
Professor(s): Warren, Wendy

Description/Objectives: In the sixteenth, seventeenth, and eighteenth centuries, North America saw the convergence of Native Americans, Africans, and Europeans. This course explores the effects of that historic meeting, telling a story that encompasses both well-known events and people (Plymouth Rock, the Pilgrims, Benjamin Franklin), and lesser-known stories (the Yamasee War, King Philip's War, the lives of Olaudah Equiano and Mary Rowlandson). Colonization is a bloody, frightening, and fraught endeavor; by the end of this class, you will understand what was won and what was lost, and by whom, in the struggle to control North America.

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 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: L01 10:00 AM - 10:50 AM T TH
Community Auditing Program Courses
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Unrest and Renewal in Urban America
HIS 383
Professor(s): Isenberg, Alison E.

Description/Objectives: This course surveys the history of cities in the United States from colonial settlement to the present. Over centuries, cities have symbolized democratic ideals of "melting pots" and cutting-edge innovation, as well as urban crises of disorder, decline, crime, and poverty. Urban life has concentrated extremes like rich and poor; racial and ethnic divides; philanthropy and greed; skyscrapers and parks; violence and hope; downtown and suburb. The course examines how cities in U.S. history have brokered revolution, transformation and renewal, focusing on class, race, gender, immigration, capitalism, and the built environment.

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

U.S. Foreign Relations
HIS 380
Professor(s): Fronczak, Joseph M.

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

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

The Structure and Meaning of Words
LIN 306
Professor(s): Kalin, Laura

Description/Objectives: This course delves into the internal composition of words (morphology) across languages. What is a word? What can be inside of a word? Do all languages build words in
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the same way(s), with the same sorts of ingredients? How similar is word-building to sentence-building? We will engage deeply with both the empirical and theoretical side of this topic, exploring not just morphology, but also its interactions with phonology (sound systems) and syntax (sentence structure). This class will be highly interactive and hands-on, and students will develop tools of analysis and argumentation that are applicable in all areas of linguistics and beyond.

Schedule: C01 01:30 PM – 2:50 PM, T TH

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

Applied Algebra
MAT 340
Professor(s): McConnell, Mark Weaver

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 03:00 PM - 04:20 PM T TH

Single Variable Analysis with an Intro
MAT 215
Professor(s): Fefferman, Charles Louis

Description/Objectives: An introduction to the mathematical discipline of analysis, to prepare for higher-level coursework 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

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.

Schedule: L01 11:00 AM - 12:20 PM W F

Structure and Properties of Materials
MAE 324
Professor(s): Arnold, Craig B.

Description/Objectives: Relates to the structures, properties, processing and performance of different materials including metals, alloys, polymers, composites, and ceramics. This course also discusses how to select materials for engineering applications.

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

PROGRAM IN MEDIEVAL STUDIES

The Worlds of the Middle Ages
MED 227
Professor(s): Reimtz, Helmut Tannous, Jack Boulos Victor

Description/Objectives: We will begin in 476 with the fall of Rome and will end in 1453, with the fall of New Rome (Constantinople). In between, we will trace the different trajectories that the area stretching from Iceland to Iran traveled along over
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the course of this fateful millennium. We will meet Northern barbarians, Arab armies, Vikings, Crusaders, Mongols, and the Ottomans; we will witness the birth of Islam and medieval Islamic civilization; Charlemagne's creation of the Western Roman empire; will see clashes between Popes and rulers and Caliphs and Muslim religious authorities. We will do all this and more, all the while asking: what were the Middle Ages?

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

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): Brangwynne, Clifford Paul Notterman, Daniel A. Thieringer, Heather

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 satisfies the biology requirement for entrance into medical school.

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

MUSIC

Music of the Romantic Era
MUS 238
Professor(s): Morrison, Simon Alexander

Description/Objectives: A survey of major styles, genres, and modes of performance in European art music from about 1814 to the 1890s, ranging from Beethoven to Rachmaninoff and including opera, ballet, the symphony, concerto, and song.

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

NEAR EASTERN STUDIES
Community Auditing Program Courses
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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

The Politics of Modern Islam
NES 269
Professor(s): Haykel, Bernard A.

Description/Objectives: 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: L01 11:00 AM - 11:50 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 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
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Introduction to Clinical Neuropsychology  
NEU 331  
Professor(s): Kastner, Sabine

**Description/Objectives:** Much of what we know about the brain systems underlying perception, attention, memory, and language has been first derived from patients with brain lesions or other brain pathology. Despite our advances in functional brain imaging the study of clinical cases in neuropsychology is still important to determine the causal role of certain brain regions in contributing to a given cognitive process.

**Other Information:** This course will provide an introduction to major syndromes in clinical neuropsychology such as object agnosia (deficits in object recognition), amnesia (memory deficits), visuo-spatial hemineglect (attention deficits), aphasia (language deficits), and others. A second major emphasis will be on reviewing the brain systems involved with a certain impaired cognitive function in order to better understand the lesion sites and pathology underlying each respective clinical syndrome.

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

Systems Neuroscience  
NEU 427  
Professor(s): Berry II, Michael James

**Description/Objectives:** This class will explore the principles of brain function at the level of neural systems, a level intermediate between single neurons and voxels of millions of neurons. We will explore local circuits, where multiple cell types, organized into multiple layers, combine their processing to implement higher-level computations as well as explore how multiple brain areas are integrated together into global functions, including volition and consciousness. We will cover all of the major brain divisions ~ neocortex, cerebellum, basal ganglia, thalamus, and hippocampus ~ as well as simpler model systems whose function is better understood.

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

OPERATIONS RESEARCH AND FINANCIAL ENGINEERING

Probability and Stochastic Systems  
ORF 309  
Professor(s): van Handel, Ramon

**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

Intro to Metaphysics & Epistemology
PHI 203
Professor(s): Lederman, Harvey

Description/Objectives: 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: L01 08:00 AM - 08:50 AM M W

POLITICS

American Politics
POL 220
Professor(s): Staszak, Sarah

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 T TH

Business Influence in American Politics
POL 337
Professor(s): Li, Zhao

Description/Objectives: Do Trump and other business executives as politicians deliver on their promise to "run government like a business?" When do corporations speak out against such threats to democracy as the Capitol insurrection, and does it matter? Can activist campaigns successfully pressure social media companies to de-platform disinformation? Business shapes contemporary American politics in more ways than many appreciate. In this course, we will explore business power in American democracy, how it leads to policy change (or doesn't), and how it may be harnessed for good.

Schedule: L01 01:30 PM - 02:20 PM 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
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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 02:30 PM - 03:20 PM T TH

Intro. to Quantitative Social Science
POL 345
Professor(s): Ratkovic, Marc

Description/Objectives: Would universal health insurance improve the health of
the poor? Do patterns of arrests in US cities show evidence of racial profiling?
What accounts for who votes and their choice of candidates? This course will teach
students how to address these and other social science questions by analyzing
quantitative data. The course introduces basic principles of statistical inference and
programming skills for data analysis. The goal is to provide students with the
foundation necessary to analyze data in their own research and to become critical
consumers of statistical claims made in the news media, in policy reports, and in
academic research.

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

Mass Media, Social Media, & American Politics
POL 327
Professor(s): Guess, Andy

Description/Objectives: This course considers the role of both mass media and
social media in American politics and the influence of the media on Americans'
political attitudes, beliefs, and behaviors. We will examine the nature of news and
news-making organizations, the role of the news media in electoral campaigns, how
the media shape the behavior of politicians once in office, political advertising, and
social media's impact on society, both positive and negative.

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

Political Economy
POL 349
Professor(s): Judd, Gleason

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 01:30 PM - 02:20 PM T TH
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Political Thought/Rousseau to Nietzsche
POL 302
Professor(s): Stilz, Anna B.

Description/Objectives: This course surveys Continental political thought, focusing especially on the Kantian, Hegelian, and Marxist developments in this tradition. We will discuss what it means to be free and what the requirements of a free society are. Particular attention is also given to the thinkers’ conceptions of human nature, the state, and history.

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

Politics in Africa
POL 366
Professor(s): Widner, Jennifer Anne

Description/Objectives: This course introduces the study of African politics. The lectures briefly review the social and historical context of contemporary political life. They then profile some of the changes of the early post-Independence period, the authoritarian turn of the 1970s and 1980s, and the second liberation of the 1990s and 2000s, before turning to some contemporary challenges (e.g., conflict resolution, land tenure, natural resource management, public goods provision, climate resilience, health, urbanization). Each session introduces a major analytical debate, theories, and African views. Broadly comparative; some special attention to selected countries.

Other Information: Films available outside of class time.

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

The Just Society
POL 307
Professor(s): Patten, Alan W.

Description/Objectives: An introduction to theories of social justice and examination of their implications in areas of contemporary social and political controversy. The first half of the course introduces the problem of social justice and examines two classic positions, as articulated by John Locke (name associated with liberalism, property, and capitalism) and Karl Marx (name associated with the critique of capitalism). The second half of the course focuses on contemporary theories of justice. We will read authors such as John Rawls and Robert Nozick, and examine controversies over poverty, gender, racial injustice, equal opportunity, and environmental justice.

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

The Politics of Crime and Punishment
POL 339
Professor(s): Kastelles, John
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Description/Objectives: Why has the U.S. witnessed the rapid rise in mass incarceration? What roles have politicians, judges, prosecutors, and voters played in the astonishing growth in the incarceration rate over the past 40 years? What explains the racial disparities that exist in prosecutions and sentence length? This course will examine these and other questions related to crime and punishment by introducing students to historical and current debates surrounding the politics of criminal justice, criminal law, and state punishment. The course will emphasize cutting-edge research on crime and punishment in the social sciences, particularly political science.

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

PSYCHOLOGY

Cognitive Psychology
PSY 255
Professor(s): Taylor, Jordan

Description/Objectives: The course will survey discoveries and progress made over the past 50 years of research, from classic experimental findings and fundamental theoretical principles to the cutting edge of research that lies increasingly at the interface of psychology with neuroscience (neural mechanisms underlying cognitive processes), computer science (artificial intelligence and machine learning), and mathematics (formal models of complex processes). Topics will include perception, attention, memory, decision making, reasoning, problem solving, language, and cognitive control.

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

Psychopathology
PSY 207
Professor(s): Spokas, Megan

Description/Objectives: Survey of different types of psychological disorders and different models of explanation. Students will come to understand the conflicting viewpoints and treatment approaches that characterize the clinical field and will
understand what is presently known and unknown about psychopathology.

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

**RELIGION**

**Christian Ethics and Modern Society**  
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 12:30 PM - 01:20 PM 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

**Zen Buddhism**  
REL 280  
**Professor(s):** Lowe, Bryan D.

**Description/Objectives:** Most people have heard of Zen Buddhism, but what is it? Who gets to define it? This class looks at Zen in China, Korea, Germany, Japan, Vietnam, and the United States through a range of methods from reading classic texts to studying ethnographic accounts. By considering Zen in different times and places, we explore how a religion is shaped by its political and cultural environs. We examine tensions between romanticized ideals and practices on the ground and grapple with how to study complicated and sometimes troubling traditions. Topics include myths, meditation, mindfulness, monastic life, gender, war, and death.

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

Introduction to Sociology
SOC 101
Professor(s): Nelson, Timothy J.

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 M W

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 T TH

SCHOOL OF PUBLIC & INTERNATIONAL AFFAIRS

Making Post-Pandemic Worlds
SPI 364
Professor(s): Wailoo, Keith Andrew

Description/Objectives: This undergraduate lecture course examines the effects, response to, and legacies of pandemics in the past -- their short term and lasting impacts on government, civil liberties, trust in experts, ethnic and racial tensions, social inequalities, and global and local economies. The course uses insights from these past cases of world-changing pandemics (from the plague through influenza, polio, AIDS, and COVID) to inform our understanding of current social, political, and economic challenges. Analysis of the past is also used to inform policy discussions about planning for the future.

Schedule: L01 11:00 AM - 11:50 AM M W
Community Auditing Program Courses  
2022-2023 Fall

Race and Public Policy  
SPI 331  
Professor(s): Massey, Douglas S.

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 03:30 PM - 04:20 PM T TH

Women, Law and Public Policy  
SPI 373  
Professor(s): Dodd, Lynda G.

Description/Objectives: 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: L01 08:30 AM - 09:50 AM T TH