Spring 2020

CAP LECTURE LIST

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
Fall Class Fee $200 per course, per semester. Auditor Only Series $125 per course. Check, cash, or credit card (Visa, MasterCard, and Discover) accepted.

To receive a refund when dropping a course, you must notify the CAP office in writing (email acceptable) on or before Wednesday, February 12, 2020 by 5:00 pm.

Registration is limited to one (1) course until the third day of registration.

Wednesday, January 29, 2020

- Home/Off-site online registration: opens at 11 a.m.
  Day 1 Activated auditors only, one course limit
- In-person online registration: 11 a.m. – 1 p.m., CAP Office, 4 Mercer Street
  Day 1 Activated auditors only, one course limit

Thursday, January 30, 2020

- Home/Off-site online registration: opens at 11 a.m.
  Day 2 Activated auditors only, one course limit
- In-person online registration 11 a.m. – 1 p.m., CAP Office, 4 Mercer Street
  Day 2 Activated auditors only, one course limit

Friday, January 31, 2020, 11 a.m. – 1 p.m., CAP Office, 4 Mercer Street

- Home/Off-site online registration: opens at 11 a.m. – for all activated auditors
- In-person online registration 11 a.m. – 1 p.m., CAP Office, 4 Mercer Street – for all activated auditors

Friday, January 31 – Friday, February 14, 2020

Registration remains open for all auditors, online, by mail, or in the CAP Office, through the first two (2) weeks of classes for courses with space available.

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CAP at McCarter

“GOODNIGHT, NOBODY”

The Producers & Artists behind an original play & a McCarter commission

Lead Instructor: Debbie Bisno, Resident Producer, McCarter Theatre Center

Guest Artists/Guest Speakers will include: Producers, Playwright, Director, Dramaturg and Director of Production.

The Play: this winter, McCarter features the funny & moving original play GOODNIGHT, NOBODY by Rachel Bonds.

REGISTRATION by appointment only

Goodnight, Nobody

The Big Chill meets This Is Us.

A group of old friends reconnect after years apart. Reminiscing over the mishaps of motherhood to the miss-steps of sex, drugs, and rock n' roll, the realities of life prove that “Adulting” is hard.

About the Class: CAP at McCarter features behind the scenes access to the artists and producers creating original work for the stage. Read the script, see the play, go behind the scenes from multiple vantage points – from playwright to producer - with this case study class designed to provide theatre lovers and curious culture seekers with an insider’s view of the life of a theatre artist, the process of commissioned play as it comes to life.

GOODNIGHT NOBODY will be on the Roger S. Berlind main stage at 91 University Place, Princeton from Jan 3-Feb 9.

Class Dates: Wednesday's January 8, 22 & 29
Time: 2:00 pm - 3:30 pm

Performance date: Wed., January 15, 2020
Time: 7:30 pm (the performance on 1/15 is in place of the Wednesday afternoon class.)

Tuition $200. This class includes 3 classroom sessions and 1 performance. The performance ticket is included in the class fee.

REGISTRATION by appointment only

The Playwright: Rachel Bonds' plays have been developed or produced by McCarter, South Coast Repertory, Manhattan Theatre Club, Roundabout, Atlantic, New Georges, Ars Nova, Ensemble Studio Theatre, Williamstown, Actors Theatre of Louisville, Studio Theatre, Arden Theatre, and New York Stage and Film. Her plays include: Five Mile Lake which received its East Coast premiere at the McCarter; At the Old Place, developed at the Arden; Swimmers, featured at New York Stage and Roundabout, receiving top ranking on The Kilroys' List; Michael & Edie, named a New York Times Critics' Pick in 2010; Winter Games, winner of the Heideman Award and part of the Humana Festival; The Noise, developed at New Georges and Ars Nova; and Anniversary, winner of the 2012 Samuel French Festival and featured on NPR. Bonds is a graduate of Brown University. Related Articles about and by Rachel Bonds:

Mother Howlround Article
Sun Times on Bonds’ recent Chicago premiere: SUN TIMES

Goodnight, Nobody - Live at the Library
Auditor Only Series

ASC100 Introduction to American Sign Language

Professor: Noah Bucholz, Princeton Theological Seminary

This course introduces DEAF+WORLD; a world where people speak with their hands and hear with their eyes. The primary goal is to build a strong foundation for acquiring American Sign Language (ASL) and understanding Deaf culture. By the end of class, you will be able to hold greeting conversations as well as conversations about two or three different basic topics in ASL. If you are interested in studying ASL further, this course will help you know which online/offline resources to use and teach you how to use them for your further studying.

Time: 1:30-3pm

Dates: March 6, 13, 20, and April 3, 2020

Noah Bucholz is a PhD student in Religion & Society at Princeton Theological Seminary and lecturer in the Program in Linguistics at Princeton University. Previously, he served as Assistant Professor of American Sign Language and Deaf Studies at Bethel College. His research interests include liberation theology, postcolonial/decolonial theory, critical geography, and Deaf studies. He holds a BA in Biblical & Theological Studies and Classical Languages from Wheaton College and an MDiv and ThM from Princeton Theological Seminary.

ASC200 Romani (gypsy) Culture in Eastern Europe

Professor: Margaret Beissinger, Research Scholar and Lecturer, Department of Slavic Language and Literature

Roma in Eastern Europe have been enslaved, targeted for annihilation, and persecuted for centuries. Yet they have repeatedly adapted and adjusted to the circumstances surrounding them, persisting as distinctive cultural communities while simultaneously contributing to and forming part of the dominant worlds in which they live. This course treats Romani culture in the countries of Eastern Europe. It covers Romani history and identity; folklore, music, and shifting traditional roles; representations in literature and film; and verbal art by Roma. The course offers new perspectives on ethnic minorities and the dynamics of culture in Slavic and East European society.

Time: 2:00 – 3:30pm

Dates: April 3, 10, 17, and 24, 2020

Margaret Beissinger has a PhD in folklore and Mythology – South Slavic and Romanian from Harvard University. She is currently focusing on Balkan cultures (especially Romanian, Serbian, and Bulgarian) and oral tradition, oral epic, and Romani traditional culture and music-making. Much of her fieldwork has been carried out in southern Romania, where she worked extensively, both before and after the 1989 revolution, with Romani musicians. Her current book projects include From Slavery to Celebrity: Culture and Performance among Romani Musicians in Romania and a book of South Slavic oral poetry.
AFRICAN AMERICAN STUDIES

African American Literature: Harlem Renaissance to Present
AAS 359
Professor: Nishikawa, Kinohi

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

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

African American History to 1863
AAS 366
Professor: Hunter, Tera W.

Description: This course explores African American history from the Atlantic slave trade up to the Civil War. It is centrally concerned with the rise of and overthrow of human bondage, and how they shaped the modern world. Africans were central to the largest and most profitable forced migration in world history. They shaped new identities and influenced the contours of American politics, law, economics, culture, and society. The course considers the diversity of experiences in this formative period of nation-making. Race, class, gender, region, religion, labor, and resistance animate important themes in the course.

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

Black Rage and Black Power
AAS 321
Professor: Glaude Jr., Eddie Steven

Description: This course examines the various pieties of the Black Power Era. We chart the explicit and implicit utopian visions of the politics of the period that, at once, criticized established Black religious institutions and articulated alternative ways of imagining salvation. We also explore the attempt by Black theologians to translate the prophetic Black church tradition into the idiom of Black power. We aim to keep in view the significance of the Black Power era for understanding the changing role and place of Black religion in Black public life.

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

Topics in Global Race and Ethnicity
AAS 303
Professor: Wolfe, Kevin A.

Description: What does the "post-colonial" mean? In this course, we will engage the literary and theoretical production of formerly colonized subjects from parts of Africa and the Caribbean, as we seek to determine what the post-colonial imagination might look like. The emphasis will be on close readings of works that emerge from the crucible of the Black Atlantic's "encounter" with European and American colonialism, as we question how the identities of formerly colonized subjects inform their views of the world.

Schedule: 12:30 PM - 01:20 PM M W
**AMERICAN STUDIES**

**Access to Health**
AMS 304  
**Professor:** Gerwin, Leslie E.

**Description:** What does it mean to be healthy and who should ensure that individuals and communities achieve health? This course will examine the meaning of public health in America exploring the role of government as a regulator, service-provider, and director of personal behaviors. We will consider the legal, ethical, economic and political foundations of government actions and the challenges of addressing societal ills that account for disparities in health outcomes. Students will investigate and analyze health issues seeking to translate academic inquiry into policy prescriptions that impact human health.

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

**ANTHROPOLOGY**

**Alcohol Culture in Everyday Life**  
ANT 272  
**Professor:** Collins, Christina Tekie

**Description:** Alcohol is not just an intoxicating drink, but an "embodied material culture" embedded in our experiences of everyday life. What does our relationship with alcohol reveal about individual and collective identities? What does it say about the social and economic realities of a globalized world today? Drawing from literature in anthropology, alcohol studies, and social theory, this course asks students to think critically about the relationship between alcohol and culture in both their own lives and in the lives of others. Readings primarily focus on alcohol production and consumption in Africa.

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

**Making History: Museums, Memorials, Heritage**  
ANT 379  
**Professor:** Cain, Tiffany Cherelle

**Description:** This course contends with how shared histories are collectively made and remade in contemporary society. We will interrogate the meaning of history, memory, heritage, and "the past." What is at stake in how we represent the past? What do we mean when we make a claim on history as "ours"? What role do museums, monuments, and memorials play in the formation and maintenance of collective identities? Can practices like public history and archaeology promote collective healing?

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

**ARCHITECTURE**

**Introduction to Architectural Thinking**  
ARC 203  
**Professor:** Allen, Stanley T.

**Description:** The objective of this course is to provide a broad overview of the discipline of architecture: its history, theories, methodologies; its manners of thinking and working. Rather than a chronological survey, the course will be organized thematically, with examples drawn from a range of historical periods as well as contemporary practice. Through lectures, readings, and discussions every student will acquire a working knowledge of key texts, buildings and architectural concepts.
Schedule: 11:00 AM - 11:50 AM T TH

ART AND ARCHAEOLOGY

Contemporary Art: 1950 - 2000
ART 214
Professor: Small, Irene Violet

Description: A critical study of the major movements, paradigms, and documents of postwar art—abstract-expressionist, pop, minimalist, conceptual, process and performance, site-specific, etc. Special attention to crucial figures (e.g., Jackson Pollock, Andy Warhol, Felix-Gonzalez-Torres) and problems (e.g., "the neo-avant-garde", popular culture, feminism theory, political controversies, "postmodernism").

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

Greek Art and Archaeology
ART 202
Professor: Arrington, Nathan Todd

Description: What is Greek art, and why has it captivated the imagination of artists, thinkers, and travelers for centuries? We will survey the major monuments, objects, and archaeological sites in order to critically examine its seminal place in the western tradition. Diverse types of material evidence will inform an intellectual journey leading from the very first Greek cities to the luxurious art of Hellenistic kings. Lectures are organized chronologically and thematically, and precepts offer the unique experience of hands-on interaction with objects in the art museum's collection.

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

Modern and Contemporary Latin Am Art
ART 220
Professor: Fajardo-Hill, Cecilia Small, Irene Violet

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

ASTROPHYSICAL SCIENCES

Cosmology
AST 401
Professor: Bahcall, Neta A.

Description: A general review of extragalactic astronomy and cosmology. Topics include the properties and nature of galaxies, clusters of galaxies, superclusters, the large-scale structure of the universe, evidence for the existence of Dark Matter and Dark Energy, the expanding universe, the early universe, and the formation and evolution of structure.

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

The Science of Fission and Fusion Energy
AST 309
Professor: Goldston, Robert James

Description: Power from the nucleus offers a low-carbon source of electricity. However, fission power also carries
significant risks: nuclear proliferation (North Korea, Iran), major accidents (Chernobyl, Fukushima), and waste disposal (Yucca Mountain). Fusion carries fewer risks, but the timetable for its commercialization is uncertain. We will delve into the scientific underpinnings of these two energy sources, so you can assess them for yourselves. A benefit of this course is that you will expand your scientific and computational skills by applying them to important real-world problems.

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

**The Universe**
AST 203
Professor: Chyba, Christopher F., Dunkley, Jo, Strauss, Michael Abram

**Description:** This course, whose subject matter covers the entire universe, targets the frontiers of modern astrophysics. Topics include the planets of our solar system; the search for extrasolar planets and extraterrestrial life and intelligence; the birth, life, and death of stars; black holes; the zoo of galaxies and their evolution; the Big Bang and the expanding universe; and dark matter, dark energy, and the large-scale structure of the universe. This course is designed for the non-science major and has no prerequisites past high school algebra and geometry. High school physics would be useful, but is not required.

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

**Topics in Modern Astronomy**
AST 204
Professor: Winn, Joshua Nathan

**Description:** This course provides a broad overview of modern astronomy and astrophysics for students in the sciences.

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

**CHEMICAL AND BIOLOGICAL ENGINEERING**

**Thermodynamics**
CBE 246
Professor: Webb, Michael A.

**Description:** The course focuses on basic principles governing the equilibrium behavior of macroscopic systems and their applications to materials and processes of interest in modern chemical engineering. We introduce the fundamental thermodynamic concepts: energy conservation (First Law); temperature and entropy (Second Law); thermodynamic potentials; equilibrium and stability. These ideas are applied to problems such as calculating the equilibrium compositions of coexisting phases or reacting mixtures, as well as analyzing the thermodynamic efficiency of power generation and refrigeration cycles.

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

**CIVIL AND ENVIRONMENTAL ENGINEERING**

**Soil Mechanics**
CEE 365
Professor: Sandiford, Raymond E.

**Description:** Part-1 Classical Soil
Mechanics: Physical and engineering properties of soils; soil classification and identification methods; site exploration; sampling; laboratory and in-situ testing techniques; shear strength; bearing capacity; earth pressure; slope stability; permeability and seepage. Part-2 Application of Soil Mechanics in Civil Engineering: Earth retaining structures; deep foundations, ground improvement; tunneling; levees; and construction and contracting implications.

**Schedule:** 01:30 pm - 04:20 pm M

**Statics of Structures**
CEE 312  
**Professor:** Glisic, Branko

**Description:** Develops notions of internal forces and displacements, and instructs students how to design and analyze structures. Presents the fundamental principles of structural analysis, determination of internal forces, and deflections under the static load conditions, and introduces the bending theory of plane beams and the basic energy theorems. The theory of the first order will be developed for continuous girders, frames, arches, suspension bridges, and trusses, including both statically determinate and indeterminate structures. Basic principles for construction of influence lines and determination of extreme influences will be presented.

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

**Structures and the Urban Environment**
CEE 262A  
**Professor:** Garlock, Maria, Eugenia Moreyra

**Description:** Known as "Bridges", this course focuses on structural engineering as a new art form begun during the Industrial Revolution and flourishing today in long-span bridges, thin shell concrete vaults, and tall buildings. Through critical analysis of major works, students are introduced to the methods of evaluating engineered structures as an art form. Students study the works and ideas of individual engineers through their basic calculations, their builder's mentality and their aesthetic imagination. Illustrations are taken from various cities and countries thus demonstrating the influence of culture on our built environment.

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

**CLASSICS**

**Ancient Greek and Roman Medicine: Bodies, Physicians, and Patients**
CLA 231  
**Professor:** Holmes, Brooke A.

**Description:** This course looks at the formation of a techne ("art" or "science") of medicine in fifth-century BCE Greece and debates about the theory and practice of healthcare in Greco-Roman antiquity. We look at early Greek medicine in relationship to established medical traditions in Egypt and Mesopotamia; medical discourses of human nature, gender, race, and the body; debates about the ethics of medical research; the relationship of the body to the mind; and the nature of "Greek" medicine as it travels to Alexandria, Rome and beyond. Readings drawn from primary sources as well as contemporary texts in medical humanities and bioethics.

**Schedule:** 02:30 PM - 03:20 PM T TH
Origins and Nature of English Vocabulary
CLA 208
Professor: Katz, Joshua Timothy

Description: The origins and nature of English vocabulary, from Proto-Indo-European prehistory to current slang via Beowulf. Emphasis on linguistic tools and methodology. Topics include the Greek and Latin elements of English, the Roman alphabet and spelling, social and regional variation, the matter of "proper" language, and the "National Language" debate.
Schedule: 01:30 PM - 02:20 PM T TH

The Roman Empire 31 BC to AD 337
CLA 219
Professor: Padilla Peralta, Dan-El

Description: At its peak, the Roman Empire ranged from the shores of the Atlantic to the Persian Gulf. We will study the rise and fall of this multicultural empire, from its emergence out of a fractious republican oligarchy and its multi-century run of stability to its eventual disintegration. We will listen to the Empire's many voices: the emperor grumbling that the people of Rome did not have one neck; the young woman memorializing her dreams of triumph on the eve of her martyrdom; the centurion boasting of slaughtered Dacians and naked water goddesses. Finally, we will assess the Empire's relevance to early modern and modern societies across the globe.
Schedule: 01:30 PM - 04:20 PM T

COMPARATIVE LITERATURE

Passion
COM 203
Professor: Hare, Thomas William

Description: Passion is a common word with a long, complicated history; the diverse meanings we associate with it engage our experience on the most ethereal and abstract as well as the most visceral and profane levels. In this course we will study a range of films from the past eight decades with the aim of understanding how the films situate their subjects, how they narrate and illustrate passion, and how they engage personal, social, and political issues in particular aesthetic contexts.
Schedule: 11:00 AM - 12:20 PM T

The Golden Rhinoceros: Histories of the African Middle Ages
COM 241
Professor: Belcher, Wendy Laura Fauvelle, Francois-Xavier

Description: Many assume that pre-twentieth-century Africa has no history. Rather, it has so much history that communicating all its richness can be a challenge. In this class, therefore, we focus on particular instances that speak to the tremendous diversity of the period from 300 to 1500 in Africa - its political systems, religious communities, and dynamics of cultural and economic conversation. We also address Africa's interconnectedness within and to the rest of the world as a vital part of the global middle ages. Primary sources include letters, treatises, and chronicles but also maps, archeological layouts, frescos, inscriptions, and rock art.
**Schedule:** 03:00 PM - 04:20 PM T TH

**COMPUTER SCIENCE**

**Algorithms and Data Structures**  
**COS 226**  
**Professor:** Wayne, Kevin

**Description:** This course surveys the most important algorithms and data structures in use on computers today. Particular emphasis is given to algorithms for sorting, searching, and string processing. Fundamental algorithms in a number of other areas are covered as well, including geometric algorithms, graph algorithms, and some numerical algorithms. The course will concentrate on developing implementations, understanding their performance characteristics, and estimating their potential effectiveness in applications.

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

**Computer Networks**  
**COS 461**  
**Professor:** Freedman, Michael Joseph

**Description:** This course studies computer networks and protocols, the services built on top of them, and some topics relating to Internet policy. Topics include: packet switching, routing, congestion control, quality-of-service, network security, network measurement, network mgmt., and network applications. Students will learn:* Internet protocols used in Internet access networks, local area networks, wide-area networks

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

**Economics and Computing**  
**COS 445**  
**Professor:** Weinberg, Matt

**Description:** Computation and other aspects of our lives are becoming increasingly intertwined. We will study topics on the cusp between economics and computation. The focus will be on the mathematical and computational tools involved in the interaction of economics and computation. Topics: games on networks, auctions, mechanism and market design, computational social choice. The aim of the course is: (1) to understand the game-theoretic issues behind systems involving computation such as online networks, (2) to learn how algorithms and algorithmic thinking can help with designing better decision and allocation mechanisms in an offline world.

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

**Innovating Across Tech, Bus, & Mkts**  
**COS 448**  
**Professor:** Fish, Robert S., Singh, Jaswinder Pal

**Description:** Course teaches engineering students about issues tackled by leading Chief Technology Officers: the technical visionaries and/or managers who innovate at the boundaries of technology and business by understanding both deeply, and who are true partners to the CEO, not just implementers of business goals. Focus will be on thinking like a CTO (of a startup and a large company) from technology and business perspectives, and on software and Internet-based businesses. Industry-leading guest speakers provide perspectives too.

**Schedule:** 11:00 AM - 12:20 PM M W
Introduction to Programming Systems  
COS 217  
**Professor:** Moretti, Christopher M.  
**Description:** Introduction to programing systems, including modular program design, testing, debugging and performance tuning, using system calls, programming style, and assembly language and machine languages.  
**Schedule:** 10:00 AM - 10:50 AM M W

Theory of Algorithms  
COS 423  
**Professor:** Tarjan, Robert Endre  
**Description:** Design and analysis of efficient data structures and algorithms. General techniques for building and analyzing algorithms. Introduction to NP-completeness.  
**Schedule:** 11:00 AM - 12:20 PM M W

CONTEMPORARY EUROPEAN POLITICS

European Politics & Society in the 20th Century  
EPS 300  
**Professor:** James, Marzenna, Suleiman, Ezra N.  
**Description:** This course covers the critical developments of 20th and 21st century Europe, in particular the consolidation of democracy in European countries and subsequent challenges democracy is facing. It deals with the legacy of the two world wars, Nazism, Stalinism, the Cold War, colonialism and decolonization, the collapse of Communism and the re-unification of Europe, the birth and development of the European Community, the creation of the welfare state, single currency, as well as the problems of immigration, enlargement, the role of various political institutions, including the military, and the recent rise of populism.  
**Schedule:** 11:00 am - 12:20 pm T TH

EAST ASIAN STUDIES

The Origins of Japanese Culture  
EAS 218  
**Professor:** Conlan, Thomas Donald  
**Description:** 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:** 03:00 PM - 04:20 PM M W

ECOLOGY AND EVOLUTIONARY BIOLOGY

Behavioral Ecology  
EEB 313  
**Professor:** Riehl, Christina Pauline  
**Description:** How does a swarm of honeybees collectively decide on a new site for their hive? When a mother mouse protects her young, are her behaviors genetically determined? Why do ravens share food with each other? This course is an introduction to behavioral ecology, which asks why animals act the way they do, how their behaviors have been shaped by natural selection, and how these behaviors influence their surroundings. We will first discuss
behaviors at the individual level, then move to reproductive behaviors. The final section of the course will focus on social evolution, the origins of cooperation, and human behavioral ecology.

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

**ECONOMICS**

**Economic Inequality and the Role of Government**
ECO 343
Professor: Kuziemko, Ilyana

**Description:** In the US and many other developed countries, economic inequality has risen to historic levels in recent decades. What are the causes of this trend -- "natural" market forces (e.g., globalization?) or changes in public policy (e.g., erosion of the minimum wage)? Are measures currently proposed to counteract inequality and poverty -- e.g., progressive taxation, transfer programs to low-income families, public insurance programs such as Medicare -- effective? An emphasis is placed on understanding what basic microeconomic theory as well as empirical evidence can (and cannot) tell us about these questions.

**Schedule:** 07:30 PM - 10:20 PM T

**Introduction to Microeconomics**
ECO 100
Professor: Noonan, Kelly

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

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

**Macroeconomics**
ECO 301
Professor: Li, Wenli

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

**Schedule:** 01:30 PM - 02:50 PM T TH
Microeconomic Theory  
ECO 300  
Professor: Wilson, Andrea  
Description: This course builds on your knowledge of microeconomics from ECO 100. As with ECO 100, this course will focus on the decisions made by individual consumers and producers. It will consider a variety of different market structures ranging from perfect competition to monopoly. It will also discuss the rationale for government involvement when there are market failures. While the topics will be very similar to those covered in ECO 100, the analysis will be more in depth.  

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

ELECTRICAL ENGINEERING

Information Signals  
ELE 201  
Professor: Chen, Yuxin

Description: Signals that carry information play a central role in technology and engineering---ranging from sound and images to MRI, communication, radar, and robotic control. This course teaches mathematical tools to analyze, manipulate, dissect, and preserve information signals. For example, many continuous signals can be perfectly represented through sampling (Nyquist theorem), which leads to digital signals. A major focus of the course is the Fourier transform. We also study linear time-invariant systems, modulation, quantization, and stability (Laplace transform and z-transform). Lab design projects in Matlab include a "Shazam" music ID system.  

Schedule: 09:30 AM - 10:50 AM T TH

ENERGY STUDIES

Designing Sustainable Systems  
ENE 202  
Professor: Meggers, Forrest Michael

Description: 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: synthesizing the environmental science with new IoT in an applied design project.  

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

Introduction to the Electricity Sector-E  
ENE 422  
Professor: Jenkins, Jesse D.

Description: This course provides an introduction to the electricity sector drawing on engineering, economics, and regulatory policy perspectives. It introduces the engineering principles behind various power generation technologies and transmission and distribution networks; the economics of electricity markets; and the regulation of electricity generation, transmission, distribution, and retail sales. Open challenges related to the growth of distributed energy resources, the transition to low-carbon electricity sources, and the role of the electricity sector in mitigating global climate change are also discussed.
**ENGINEERING**

**Technology and Society**  
**EGR 277**  
**Professor:** Reinecke, David M  
**Description:** Technology and society are unthinkable without each other, each provides the means and framework in which the other develops. To explore this dynamic, this course investigates a wide array of questions on the interaction between technology, society, politics, and economics, emphasizing the themes such as innovation and regulation, risk and failure, ethics and expertise. Specific topics covered include nuclear power and disasters, green energy, the development and regulation of the Internet, medical expertise and controversy, intellectual property, the financial crisis, and the electric power grid.

**Schedule:** 11:00 AM - 11:50 AM M W  
**Other:** Acceptance in this class is by invitation only. For consideration send an email to PUCAP@princeton.edu stating in 150 words or less, your reason for wanting to be in the class and your background experience. All replies must be submitted by January 17, 2020 for consideration. Late applicants will not be considered.

**Venture Capital & Finance of Innovation**  
**EGR 395**  
**Professor:** Hejazi, Shahram  
**Description:** Venture capital is a driving force behind innovation and entrepreneurship, although the unique working details of venture capital firms and their processes are well-kept secrets. Early stage investors not only fund startups but also enable innovation through mentorship and partnership with the entrepreneurs. Understanding how these investors think and operate is critical to students who are interested in entrepreneurship, as well as to those who would like to pursue venture capital.

**Schedule:** 11:00 AM - 11:50 AM M W  
**Other:** Acceptance in this class is by invitation only. For consideration send an email to PUCAP@princeton.edu stating in 150 words or less, your reason for wanting to be in the class and your background experience. All replies must be submitted by January 17, 2020 for consideration. Late applicants will not be considered.

**ENGLISH**

**19th-Century Fiction**  
**ENG 345**  
**Professor:** Nunokawa, Jeff  
**Description:** 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:** 02:30 PM - 03:20 PM M W  

**Children's Literature**  
**ENG 385**  
**Professor:** Gleason, William Albert  
**Description:** A survey of classic texts written for children from the past 200 years in (primarily) England and America. We will examine the development and range of the genre from early alphabet books to recent young adult fiction. We'll try to put ourselves in the position of young readers while also studying the works as adult interpreters, asking such questions as: How do stories written for children reflect and
shape the lives of their readers? What can children's literature tell us about the history of reading, or of growing up, or of the imagination itself? In the process we will consider psychological and social questions as well as literary ones.

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

**Literary History**  
**ENG 200**  
**Professor:** Gee, Sophie Graham

**Description:** A survey of great books, vivid language and unforgettable characters from the medieval period to the eighteenth century. Through the eyes of Chaucer, Spenser, Shakespeare, Milton, Jane Austen and others we see our world becoming modern. We discuss early modern art, beauty, romance, desire, the will, the mind, God, sex, and death and ask whether these are fundamentally different today. We ask what some of the people, places and problems pushed to the margins during these centuries of Western European transformation can reveal about our most urgent challenges today.

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

**Shakespeare II**  
**ENG 321**  
**Professor:** Cormack, Bradin T.

**Description:** This class covers the second half of Shakespeare's career, with a focus on the major tragedies and late comedies.

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

**Topics in American Literature**  
**ENG 357**  
**Professor:** Mitchell, Lee Clark

**Description:** This course examines the careers of two of America's most accomplished novelists. Manifest differences aside, both authors were obsessed with the ensnaring effects of plot, prompting both to imagine fictional realms that are as much "designs" on the reader as on characters.

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

**ENVIRONMENTAL STUDIES**

**Practical Models - Environmental Systems**  
**ENV 302**  
**Professor:** Celia, Michael Anthony

**Description:** Humans are increasingly affecting environmental systems throughout the world. This is especially true for activities associated with energy production, water use, and food production. To understand the environmental impacts, quantitative modeling tools are needed. This course introduces quantitative modeling approaches for environmental systems, including global models for carbon cycling; local and regional models for water, soil, and vegetation interactions; and models for transport of pollutants in both water and air. Students will develop simple models for all of these systems, and apply the models to a set of practical problems.

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

Introduction to German Philosophy  
GER 210  
Professor: Jennings, Michael William

**Description:** An introduction to the German philosophical tradition from the Enlightenment to the present through the study of its major figures (Kant, Hegel, Marx, Nietzsche, Heidegger, Adorno, Arendt). This course offers a survey of German intellectual history based upon direct engagement with original texts. Domains to be explored include metaphysics, aesthetics, the theory of knowledge, political philosophy and the philosophy of language.

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

Introduction to Media Theory  
GER 211  
Professor: Levin, Thomas Yaron

**Description:** Through careful readings of a wide range of media theoretical texts from the late 19th to early 21st century, this class will trace the development of critical reflection on technologies and media ranging from the printing press to photography, from gramophones to radio technologies, from pre-cinematic optical devices to film and television, and from telephony and typewriters to cyberspace. Topics include the relationship between representation and technology, the historicity of perception, the interplay of aesthetics, technology and politics, and the transformation of notions of imagination, literacy, communication, reality and truth.

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

**HISTORY**

Abraham Lincoln and America 1809-1865  
HIS 470  
Professor: Guelzo, Allen Carl

**Description:** This course explores the political biography, principles and practices of Abraham Lincoln. The issues to be examined include the international context of liberal democracy in the 19th century, the war powers of the presidency, the contest of Whig and Democratic political ideas, the relation of the executive branch to the legislative and judicial branches, diplomacy, and the presidential cabinet. While tracing Lincoln's biography from the Illinois frontier to the White House, we will explore how his own life was shaped by, and shaped, questions of enterprise and society, slavery and emancipation, and Civil War and Reconstruction.

**Schedule:** 01:30 pm - 04:20 pm TH

Colonial and Postcolonial Africa  
HIS 315  
Professor: Dlamini, Jacob S.

**Description:** 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:** 11:00 AM - 11:50 AM M W

**East Asia since 1800**  
**HIS 208**  
**Professor:** Bian, He, Marcon, Federico

**Description:** This course is an introduction to the history of modern East Asia. We will examine the inter-related histories of China, Japan, and Korea since 1800 and their relationships with the wider world. Major topics include: trade and cultural exchanges, reform and revolutions, war, colonialism, imperialism, and Cold War geopolitics.

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

**English Constitutional History**  
**HIS 367**  
**Professor:** Jordan, William Chester

**Description:** To explore the development of institutions and theories of government in England from the Norman Conquest to about 1700.

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

**Europe in the World: 1776 to the Present**  
**HIS 212**  
**Professor:** Bell, David A.

**Description:** An overview of European history since the French Revolution, taking as its major theme the changing role of Europe in the world. It looks at the global legacies of the French and Russian revolutions, and how the Industrial Revolution augmented the power of European states, sometimes through formal and sometimes informal imperialism. How did ideologies like nationalism, liberalism, communism and fascism emerge from European origins and how were they transformed? How differently did Europeans experience the two phases of globalization in the 19th and 20th centuries? Biographies are used as a way of approaching the problem of structural change.

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

**France, 1815 to the Present**  
**HIS 351**  
**Professor:** Nord, Philip Galland

**Description:** The history of France in the 19th and 20th centuries appears a rapid and perplexing turnover of regimes and administrations. This course has two interrelated aims: (1) to account for France's peculiar political instability in terms of social struggles which were played out in one form or another in all European states, and thereby, (2) to set France's unique pattern of development in its European context. Topics will include: the Restoration and the legacy of the French Revolution; 1848 and Bonapartism; popular revolt in the fin de siecle and the triumph of the Third Republic, etc.

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

**History of the American West**  
**HIS 374**  
**Professor:** Sandweiss, Martha A.

**Description:** This course examines the history of the place we now call the American West, from pre-contact to the present. Our primary focus will be on the
struggles between and among peoples to control resources and political power, and to shape the ways in which western history is told. We will pay particular attention to the role of visual and popular culture in shaping the national imagination of the region.

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

Modern Jewish History: 1750-Present
HIS 359
Professor: Dweck, Yaacob

Description: This course surveys the breadth of Jewish experience from the era of the Enlightenment to the contemporary period. Tracing the development of Jewish cultures and communities in Europe, the Middle East, and the United States against the background of general history, the lectures focus on themes such as the transformation of Jewish identity, the creation of modern Jewish politics, the impact of anti-semitism, and the founding of the State of Israel.

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

Race, Drugs, and Drug Policy in America
HIS 393
Professor: Wailoo, Keith Andrew

Description: From "Chinese opium" to Oxycontin, and from cocaine and "crack" to BiDil, drug controversies reflect enduring debates about the role of medicine, the law, the policing of ethnic identity, and racial difference. This course explores the history of controversial substances (prescription medicines, over-the-counter products, black market substances, psychoactive drugs), and how, from cigarettes to alcohol and opium, they become vehicles for heated debates over immigration, identity, cultural and biological difference, criminal character, the line between legality and illegality, and the boundaries of the normal and the pathological.

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

Revolutionary America
HIS 372
Professor: Blaakman, Michael Albert

Description: Why was there an American Revolution? How revolutionary was it, and for whom? Why did it end with the creation of a fractious independent republic, an "empire of liberty" rooted in slavery? This class explores the causes, course, and consequences of the American Revolution, from the Seven Years War through the ratification of the U.S. Constitution. Lectures, readings, and precepts will trace the ideas and experiences of the many peoples whose lives intersected with the United States' struggle for independence: female and male, black and white and Native American, free and enslaved, American and British, Loyalist and Patriot.

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

The Crusades
HIS 345
Professor: Pippenger, Randall Todd

Description: The Crusades were a central phenomenon of the Middle Ages. This course examines the origins and development of the Crusades and the Crusader States in the Islamic East. It explores dramatic events, such as the great Siege of Jerusalem, and introduces vivid personalities, including Richard the
Lionheart and Saladin. We will consider aspects of institutional, economic, social and cultural history and compare medieval Christian (Western and Byzantine), Muslim and Jewish perceptions of the crusading movement. Finally, we will critically examine the resonance the movement continues to have in current political and ideological debates.

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

The Making of Modern India and Pakistan
HIS 317
Professor: Prakash, Gyan

Description: An exploration of three major themes in the history of India's and Pakistan's emergence as nation-states: colonial socio-economic and cultural transformations, the growth of modern collective identities and conflicts, and nationalism. Topics covered include: trade, empire, and capitalism; class, gender and religion; Gandhi, national independence, and partition; and post-colonial state and society.

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

The Soviet Empire
HIS 362
Professor: Kotkin, Stephen

Description: An examination of the transformation of the Russian Empire into the Soviet Empire. Topics include: the invention and unfolding of single-party revolutionary politics, the expansion of the machinery of state, the onset and development of Stalin's personal despotism, the violent attempt to create a noncapitalist society, the experiences and consequences of the monumental war with Nazi Germany, and the various postwar reforms. Special attention paid to the dynamics of the new socialist society, the connection between the power of the state and everyday life, global communism, and the 1991 collapse.

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

The United States Since 1974
HIS 361
Professor: Zelizer, Julian E.

Description: The history of contemporary America, with particular attention to political, social and technological changes. Topics will include the rise of a new conservative movement and the reconstitution of liberalism, the end of the divisive Cold War era and the rise of an interconnected global economy, revolutionary technological innovation coupled with growing economic inequality, a massive influx of immigrants coupled with a revival of isolationism and nativism, a revolution in homosexual rights and gender equality coupled with the rise of a new ethos of "family values."

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

The World of Late Antiquity
HIS 210
Professor: Tannous, Jack Boulos Victor

Description: This course will focus on the history of the later Roman Empire, a period which historians often refer to as "Late Antiquity." We will begin our class in pagan Rome at the start of the third century and end it in Baghdad in the ninth century: in between these two points, the Mediterranean world experienced a series of
cultural and political revolutions whose reverberations can still be felt today. We will witness civil wars, barbarian invasions, the triumph of Christianity over paganism, the fall of the Western Empire, the rise of Islam, the Greco-Arabic translation movement and much more.

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

**What is the Scientific Revolution?**

**HIS 294**

**Professor:** Rampling, Jennifer M.

**Description:** Something "happened" to science between 1450-1750. The sun replaced the earth at the center of the cosmos, Europeans encountered new worlds and new peoples, and heaven and earth shook to the impact of new technologies like telescopes and heavy artillery. Yet how much was really new? Did all these changes merge into one phenomenon that we can call "the scientific revolution"? And were there many such revolutions or could the very idea be a modern invention? From optics and anatomy to alchemy and magic, this course will ask exactly how natural knowledge was shaped, challenged and exploited between the late Middle Ages and the Enlightenment.

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

**ITALIAN**

**Topics Modern Italian Cinema**

**ITA 310**

**Professor:** Marrone-Puglia, Gaetana, Riotta, Giovanni

**Description:** This course looks at the way Italy has expressed its historical, cultural, political, and social individuality in major cinematic works from the 1960's to the present. Directors such as Bertolucci, Tornatore, Benigni, Ozpetek, and Sorrentino offer a panorama of a generation of filmmakers that has contributed to the renewal of Italian cinema. Topics will be drawn from current issues, and will include the Holocaust and questions of memory, terrorism, political violence, migration, gender ideologies, the Mafia. Emphasis on film style and techniques.

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

**LINGUISTICS**

**Introduction to Language & Linguistics**

**LIN 201**

**Professor:** Ahn, Byron T.

**Description:** This course is 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 sociolinguistics, historical linguistics, and language acquisition.

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

**Language in Its Contexts**

**LIN 250**

**Professor:** Gor, Vera

**Description:** 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 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: 01:30 pm - 02:50 pm M W

MATHEMATICS

Algebra II
MAT 346
Professor: McConnell, Mark Weaver

Description: Local Fields and the Galois theory of Local Fields.

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

Analysis I: Fourier Series and PDE
MAT 325
Professor: Shlapentokh-Rothman, Yakov Mordechai

Description: Basic facts about Fourier Series, Fourier Transformations, and applications to the classical partial differential equations will be covered. Also Finite Fourier Series, Dirichlet Characters, and applications to properties of primes.

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

MOLECULAR BIOLOGY

Biochemistry
MOL 345
Professor: Cristea, Ileana M., Petry, Sabine

Description: This course focuses on the fundamental biochemical principles that underlie cellular function. An emphasis will be placed on protein structure, function, and regulation. Additional topics covered will include metabolism and catalysis, and cutting-edge methodologies for studying macromolecules in health and disease systems.

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

Cell and Developmental Biology
MOL 348
Professors: Burdine, Rebecca D., Patterson, Victoria Louise

Description: The course will investigate the roles that gene regulation, cell-cell communication, cell adhesion, cell motility, signal transduction and intracellular trafficking play in the commitment, differentiation and assembly of cells into specialized tissues. The mechanisms that underlie development of multicellular organisms, from C. elegans to humans, will be examined using biochemical, genetic and cell biological approaches. In-class problem solving, group work, and active learning approaches will be used to emphasize key concepts and analyze experimental data.

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

Food, Drugs and Society
MOL 250
Professor: Stock, Jeffry Benton

Description: The current environment in the US for the use and abuse of foods and drugs will be examined from a scientific fact-based perspective. Historical, economic, marketing, political, and public health
drivers will be considered. Specific topics include government dietary recommendations (food politics), dietary supplements (from Vitamins to herbal extracts), pharmacology and ethical drug development (sulfa drugs, NSAIDS, etc), addiction and substance abuse (alcohol, nicotine, stimulants, opioids, etc), Alzheimer's disease and the problem of long-term care in an aging population, and Psychedelic drug use and abuse (psilocybin, mescaline, LSD, etc).

**Description:** This course examines fundamental determinants of the human-microbe interaction at the biological and ecological levels. The focus will be on major global infectious diseases and their impact. Each infectious agent will be discussed in terms of its biology, epidemiology, pathogenesis, disease progression, as well as biomedical and policy-based strategies for its prevention and control.

**Schedule:** 01:30 PM - 04:20 PM TH

**Intro to Cellular & Molecular Biology**  
**MOL 214**

**Professor:** Gavis, Elizabeth Rose, Notterman, Daniel, Thieringer, Heather

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

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

**From DNA to Human Complexity**  
**MOL 101**

**Professors:** Bassler, Bonnie Lynn, Mallarino, Ricardo, Schottenfeld-Roames, Jodi, Wieschaus, Eric Francis

**Description:** This lecture and laboratory course will acquaint non-biology majors with the theory and practice of modern molecular biology focusing on topics of current interest to society. The course will cover basic molecular biology topics such as information storage and readout by DNA, RNA and proteins. The course will address how recent scientific advances influence issues relevant to humanity including stem cells and CRISPR; the human microbiome and bacterial pathogens; and how the human genome can be used to understand the evolution of modern humans.

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

**Infection: Biology, Burden, Policy**  
**MOL 425**

**Professor:** Shenk, Thomas Eugene

**Description:** A broad survey of the field of immunology and the mammalian immune system. The cellular and molecular basis of innate and acquired immunity will be discussed in detail. The course will provide frequent examples drawn from human biology in health and disease.

**Schedule:** 09:00 AM - 09:50 AM M W F
MUSIC

The Symphony From Haydn to Stravinsky
MUS 225
Professor: Ochs, Ruth Amelia

Description: Consideration of the symphony from the mid-eighteenth century to the mid-twentieth century, both in terms of musical procedures & cultural significance. The course is designed primarily for non-concentrators. The focus will be on intensive listening, minimal ability to follow musical notation helpful.

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

Tonal Syntax
MUS 206
Professor: Lovett, Andrew C.

Description: An introduction to the syntactic structure of the music of the 18th and 19th centuries through exercises in analysis and composition.

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

NEAR EASTERN STUDIES

Medieval Cairo: A Survival Guide
NES 390
Professor: Rustow, Marina

Description: How can we reconstruct quotidian life in premodern society? This course takes history to the micro-level, with rigor. Sometimes simple questions (what did people eat, wear, do for a living? whom did they marry?) can be most challenging to answer. Our laboratory will be medieval Cairo, a burgeoning metropolis astride the Mediterranean and Indian Ocean trade routes and an excellent place for take-out food. You will contribute to an evolving state of knowledge by handling artifacts, reading letters written by the men and women of medieval Cairo, and through hands-on experiments, including paper-making, cooking and staging a medieval shadow play.

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

NEUROSCIENCE

Systems Neuroscience
NEU 427
Professor: Berry II, Michael James, Karniol-Tambour, Orren

Description: The brain is more than a mere collection of its constituent parts. In this class we aim to understand how neurons interact together in local circuits and distributed brain dynamics to perform behaviorally relevant functions. The class will be organized into modules, which are selected to cover most of the major divisions of the brain. For most modules, we will first discuss a simpler circuit/system for which detailed mechanistic models and concrete ideas about function are known. Then, we will go on to discuss more complex systems, which are related to the simpler system.

Schedule: 01:30 PM - 02:50 PM M W
**OPERATIONS RESEARCH AND FINANCIAL ENGINEERING**

**Fundamentals of Queueing Theory**  
**ORF 407**  
**Professor:** Massey, William Alfred  

**Description:** This is an introduction to the stochastic models inspired by the dynamics of resource sharing. Topics discussed include: early motivating communication systems (telephone and computer networks); modern applications (call centers, healthcare operations, and urban planning for smart cities); and key formulas (from Erlang blocking and delay to Little's law). We also review supporting stochastic theories like equilibrium Markov chains along with Markov, Poisson and renewal processes.  

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

**Fundamentals of Statistics**  
**ORF 245**  
**Professor:** Cattaneo, Matias Damian  

**Description:** A first introduction to probability and statistics. This course will provide background to understand and produce rigorous statistical analysis including estimation, confidence intervals, hypothesis testing and regression. Applicability and limitations of these methods will be illustrated in the light of modern data sets and manipulation of the statistical software R. Precepts are based on real data analysis.  

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

**Introduction to Financial Mathematics**  
**ORF 335**  
**Professor:** Soner, Mete  

**Description:** Financial Mathematics is concerned with designing and analyzing products that improve the efficiency of markets, and create mechanisms for reducing risk. This course develops quantitative methods for these goals: the notions of arbitrage and risk-neutral pricing in discrete time, specific models such as Black-Scholes and Heston in continuous time, and calibration to market data. Credit derivatives, the term structure of interest rates, and robust techniques in the context of volatility options will be discussed, as well as lessons from the financial crisis.  

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

**Probability and Stochastic Systems**  
**ORF 309**  
**Professor:** van Handel, Ramon  

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

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

**PHILOSOPHY**

**Aristotle and His Successors**  
**PHI 301**  
**Professor:** Morison, Benjamin Charles Atkin  

**Description:** We shall study Aristotle's contributions in logic, natural philosophy, metaphysics, and ethics, with emphasis on the ongoing philosophical interest of some of his central insights. We shall compare
some of Aristotle's views with those of some of his successors, Hellenistic and beyond.

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

**Introductory Logic**

**PHI 201**

**Professor:** Berstler, Sam

**Description:** Logic is the study of the principles of valid reasoning. This course provides an introduction to symbolic logic, which studies the principles of valid reasoning from an abstract point of view—paying attention to the form of valid arguments rather than their subject matter. We will cover the basic concepts and principles of symbolic logic: validity, logical truth, truth-functional and quantificational inference, formal languages and formal systems and deductive proof procedures.

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

**Plato and His Predecessors**

**PHI 300**

**Professor:** Campbell, Ian J.

**Description:** In this course we will examine the ways in which Plato, who is often regarded as the founder of western philosophy, distinguished his philosophical project from the intellectual pursuits of both his predecessors and his contemporary rivals. In addition to considering Plato's influential views about the nature of reality, knowledge, and human happiness, we will aim to understand the kinds of questions that Plato thinks philosophy is apt to answer, the method by which he thinks philosophy ought to be conducted, and his arguments about the value of philosophy over competing intellectual pursuits and ways of life.

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

**Systematic Ethics**

**PHI 307**

**Professor:** Smith, Michael

**Description:** A survey of major problems and developments in twentieth century metaethics, from G.E. Moore to the present.

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

**PHYSICS**

**Introductory Physics II**

**PHY 102**

**Professor:** Wagoner, Kasey

**Description:** This course presents an introduction to the fundamental laws of nature, especially optics, electricity/magnetism, nuclear and atomic theory. These are treated quantitatively with an emphasis on problem solving. The laboratory is intended to give students an opportunity to observe physical phenomena and to gain "hands-on" experience with apparatus and instruments.

**Schedule:** 12:30 PM - 01:20 PM TH

**POLITICS**

**American Politics**

**POL 220**

**Professor:** Frymer, Paul

**Description:** 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:** 10:00 AM - 10:50 AM T TH

**Civil Liberties**

**POL 316**  
**Professor:** George, Robert Peter

**Description:** An inquiry into the value of liberty and of particular civil rights and liberties. The course considers competing theoretical justifications for rights and liberties generally, as well as particular problems concerning freedom of speech and the press, religion, sexuality, abortion, and discrimination. Supreme Court opinions regarding the constitutionality of legislation in each of these areas will be discussed and criticized.

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

**Comparative Political Economy**

**POL 352**  
**Professor:** Londregan, John Benedict

**Description:** This course forms part of the political economy core, and it introduces political economy models in the context of comparative politics. The course will emphasize the interaction between political institutions and economic goals and it will illustrate the application of the analytical and empirical methods developed in the other core courses in political economy. The course will apply the tools of political economy to understand the reasons for the differences among countries' levels of economic and political development, and to explain the interconnectedness of political and economic outcomes.

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

**Congressional Politics**

**POL 324**  
**Professor:** Lee, Frances Elida

**Description:** This course is a comprehensive examination of the U.S. Congress. We will examine who runs for and who wins seats, lawmaking processes in the House and Senate, and the roles of parties and leaders in the two chambers. We will take stock of changes in congressional operations over time, especially the centralization of power in party leaders and challenges associated with extended debate in the Senate. How does Congress make public policy? What factors shape legislative negotiation? Who has input on policy? Finally, we will assess the performance of Congress. Is policymaking too partisan? Is the public's disapproval of Congress justified?

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

**International Organizations**

**POL 396**  
**Professor:** Vreeland, James Raymond

**Description:** This course is about cooperation and sacrifice - at the international level. The focus is on intergovernmental organizations: the United Nations, the World Bank, the IMF, and regional organizations like the European Union and the AIIB. We will examine their origins and effectiveness, with attention to the political interests of powerful members -
like the United States and China - as well as smaller developing countries. To illustrate analytical tools, the course pedagogic approach involves references to pop culture, including films like Wonder Woman, Dark Knight, and The Godfather, as well as music by Adele, Bob Marley, and others.

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

**Modern Political Theory**
**POL 303**
**Professor:** Conti, Gregory Andrew

**Description:** A survey of the foundational texts of modern political theory. Emphasis is placed on close reading and the reconstruction and analysis of theoretical arguments.

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

**Policy Making in America**
**POL 329**
**Professor:** Cameron, Charles M.

**Description:** 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: 09:00 AM - 09:50 AM M W

**Political Theory**
**POL 210**
**Professor:** Stilz, Anna B.

**Description:** This course explores ideas of individual ethics and political community, the ethics of political rule, freedom and slavery, democracy and representation, and equality and inequality in political thought. Readings will be drawn from both canonical and contemporary authors, including Sophocles, Machiavelli, Locke, Rousseau, and Tocqueville. This is an introductory course, which emphasizes both thematic and historical approaches to political theory, and its role in informing contemporary civic engagement.

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

**Race and Politics in the United States**
**POL 344**
**Professor:** Stephens-Dougan, LaFleur

**Description:** This course examines various political controversies that surround the role of race and ethnicity in American society. These controversies and issues affect public opinion, political institutions, political behavior, and salient public policy debates. Thus this course will assess and evaluate the role of race in each of these domains while also examining historical antecedents. 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 2008, 2012 and 2016 presidential elections.

Schedule: 03:30 PM - 04:20 PM T TH
Radical Political Thought  
**POL 305**  
**Professor:** Müller, Jan-Werner

**Description:** This course will examine traditions of political thought--mostly, but not only, on the Left--which challenge mainstream conceptions of liberal democracy and modern capitalist society. The main focus will be on Marxism, anarchism, feminism, religious radicalism, ecological thought, and critiques of alienation in everyday life. Particular attention is paid to the relationship between political and cultural criticism, and to the philosophical anthropologies underlying different theories as well as the mechanisms for social change they envisage. We also ask if liberal democratic thought can effectively respond to radical challenges.  
**Schedule:** 09:00 AM - 09:50 AM M W

Sexuality/Gender, U.S. Law and Politics  
**POL 342**  
**Professor:** Wuest, Joanna

**Description:** This course explores questions of sexuality, gender, and gender identity in U.S. politics and the law from the late-nineteenth to the twenty-first century. Some of the topics that we will cover include: anti-discrimination policies, same-sex marriage, free speech and religious rights, sex/gender ID markers, sex offender registries, the administrative regulation of sex, and the relationships among race, gender, and sexuality. In examining how sexuality and gender are categorized and contested in the law, we will pay close attention to the changing political historical context in which these developments occur.  
**Schedule:** 11:00 AM - 11:50 AM M W

Social Movements and Revolutions  
**POL 360**  
**Professor:** Beissinger, Mark R.

**Description:** This course investigates the politics of protest and revolution, examining the conditions under which protest movements emerge, their choice of tactics, the effects of repression and concessions, and the determinants of movement success. The second part of the course focuses on revolutions, examining the forms they assume and the conditions under which they develop and prove successful. Examples discussed include the civil rights, women's and environmental movements; the French, Russian, and Iranian revolutions; the collapse of communism; and the "color revolutions," the Arab Spring, and other waves of revolution in the contemporary world.  
**Schedule:** 02:30 PM - 03:20 PM M W

The Political Economy of the United States  
**POL 335**  
**Professor:** Nolan McCarty

**Description:** This course explores the interaction of political and economic outcomes in the United States. The course presents several theories and models that help to integrate political and economic analysis. The topics covered include special interest and corporate influence, the role of money in politics, and the political impact of inequality and the Financial Crisis. A special emphasis will be placed on how political and economic factors shape key policy outcomes in areas such as social welfare, antitrust, international trade, and immigration.
Schedule: 10:00 AM – 10:50 AM M W

The Politics of Development
POL 351
Professor: Kohli, Atul

Description: This course will focus on the state's role in promoting economic growth and distribution in the developing world. The core organizing question for the course is: why have some regions of the developing world been more successful at industrialization and/or poverty alleviation than other regions. The students will learn about the patterns of development in Asia, Africa and Latin America, with special attention to such countries as China, India, South Korea, Nigeria and Brazil. General challenges that face all developing countries - globalization, establishing democracy and ethnic fragmentation - will also be analyzed.

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

PSYCHOLOGY

Health Psychology
PSY 317
Professor: Avena, Nicole M.

Description: The objectives of this course are to understand the bio-psycho-social processes that influence health-related behaviors, health and wellness, and healthcare delivery. Topics to be examined are the psycho-physiological and socio-cultural bases of health and illness; pain; adaptation to chronic illness; stress; personality and illness; death, dying, and grief; substance use; obesity and nutrition; health promoting behaviors; patient adherence; physician-patient communication; and health care utilization.

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

Memory and Cognition
PSY 306
Professor: Norman, Kenneth Andrew

Description: This course is an integrative treatment of memory in humans and animals. We explore working memory (our ability to actively maintain thoughts in the face of distraction), episodic memory (our ability to remember previously experienced events), and semantic memory (our ability to learn and remember the meanings of stimuli). In studying how the brain gives rise to different kinds of memory, we consider evidence from behavioral experiments, neuroscientific experiments (neuroimaging, electrophysiology, and lesion studies), and computational models.

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

Neuroeconomics
PSY 340
Professor: Daw, Nathaniel Douglass

Description: Decision-making is ubiquitous to everyday life and crucial to survival. Good choice is subject to evolutionary selection; poor choice accompanies many neurological and psychiatric disorders. But theoretical understanding of a function is needed to manipulate and measure it experimentally. Recently, this has led scientists studying choice to seek insights from economics. This course explores how humans and animals make decisions, focusing on how psychological and neural mechanisms implement, or fail to implement, economic theories of choice. We consider choice in many sorts of tasks; eg, in animal foraging and human competitive interactions.
Psychopathology
PSY 207
Professor: Spokas, Megan Elizabeth

Description: Survey of different types of abnormal behaviors 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 not known about abnormal functioning.

Social Psychology
PSY 252
Professor: Tamir, Diana I.

Description: The scientific study of social behavior, with an emphasis on social interaction and group influence. Topics covered will include social perception, the formation of attitudes and prejudice, attraction, conformity and obedience, altruism and aggression, and group dynamics.

The Psychological and Neural Basis of Face Perception
PSY 350
Professor: Avidan, Galia

Description: Face perception is one of the most important visual skills humans have. Given their distinctive evolutionary and social significance, faces have long been considered a special object category, which relies on unique cognitive and neural mechanisms. The aim of the course is to expose students to most up-to-date knowledge that will allow understanding of how this unique information is processed and integrated in the brain and what happens when face perception is impaired. Moreover, cognitive and neural models will be discussed in light of recent computational advancements, which enable state-of-the-art, human-like face recognition.

"Cult" Controversies in America
REL 271
Professor: Weisenfeld, Judith

Description: 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."

Holy War, Martyrdom and Sacrifice
REL 235
Professor: Marmon, Shaun Elizabeth
Description: How were just war, holy war, and martyrdom imagined and enacted over the centuries in Islamic societies? How do concepts of the afterlife inform attitudes towards war and martyrdom? We begin in the Late Antique world with a survey of noble death, martyrdom, holy war, and just war, in the Roman, Jewish and Christian traditions. We explore these topics in the Islamic tradition through case studies: the Arab conquests, the Crusades, Spain and the Reconquista, the Iran-Iraq war and contemporary jihadist movements. We use primary sources in translation (including fiction and poetry) and, for modern period, films and internet.

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

The Religions of China
REL 226
Professor: Teiser, Stephen F.

Description: A thematic introduction to Chinese religion, ranging from ancient to contemporary. The first half focuses on classics of Chinese thought (Book of Changes, Analects of Confucius, Daoist classics, etc.). The second half utilizes journalism, ethnography, and history to consider topics such as contemporary China, state control of religion, cosmology, gods and saints, divination, gender, and ritual.

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

The Theology of Thomas Aquinas
REL 293
Professor: Turner, Denys Alan

Description: The course is to serve as an introduction to the theology of one of the greatest minds in the Western Christian tradition, Thomas Aquinas (1224/5-1274). Based on his most systematic work, the Summa Theologiae as the main source, the course will cover some of the central themes of his theology, mainly through readings of the primary source itself, and some secondary readings. Thomas Aquinas has in recent decades become a source common to most of the mainstream Christian theological traditions. Aquinas is an essential resource for any who simply want to study a dominating intellectual force within the wider cultures of the Western middle ages.

Schedule: 12:30 PM - 01:20 PM T TH

SLAVIC LANGUAGES AND LITERATURES

Literature and Medicine
SLA 368
Professor: Fratto, Elena

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

Schedule: 10:00 AM - 10:50 AM M W
The Great Russian Novel and Beyond
SLA 220
Professor: Chances, Ellen Bell
Description: An examination of significant trends in Russian literature from the 2nd half of the 19th century to the Russian Revolution and a bit beyond. The course focuses on many masterpieces of 19th & 20th-century Russian literature. The works (mostly novels) are considered from a stylistic point of view and in the context of Russian historical and cultural developments. The course also focuses on questions of values and on the eternal "big questions" of life that are raised in the literature. Authors read include Turgenev, Dostoevsky, Tolstoy, Chekhov, Bely, Nabokov, and Kharms.

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

SOCIOMETRY

Inequality, Health and Health Care System
SOC 217
Professor: Hendi, Arun

This course examines the causes of health inequalities. Students will learn about theories and measures of health inequality and engage with debates over contemporary health inequalities like the Flint water crisis, the opioid epidemic, and universal health coverage. This course also covers material from the MCAT sociology and social epidemiology sections.

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

Money, Work, and Social Life
SOC 345
Professor: Goldstein, Adam Michael
Description: This course examines economic phenomena from a sociological perspective. We first consider conceptual tools that sociologists have used to understand economic life and connections between economy and society. We then apply these concepts to a rich array of topics including labor markets, worklife, firms, commodification and consumption, credit and finance, social stratification and inequality, and contemporary transformations of capitalism.

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

Technology and Society
SOC 277
Professor: Reinecke, David
Description: Technology and society are unthinkable without each other, each provides the means and framework in which the other develops. To explore this dynamic, this course investigates a wide array of questions on the interaction between technology, society, politics, and economics, emphasizing the themes such as innovation and regulation, risk and failure, ethics and expertise. Specific topics covered include nuclear power and disasters, green energy, the development and regulation of the Internet, medical expertise and controversy, intellectual property, the financial crisis, and the electric power grid.
The Sociology of the Internet
SOC 215
Professor: Vertesi, Janet Amelia
Description: You're likely reading this course description online. Next, you'll check your Gmail account, scroll through Instagram, and send a few messages over WhatsApp. The internet permeates our jobs, friendships, finances, politics, family ties and intimate relationships today. How do sociologists analyze activity online, and determine the internet's role in society? We'll develop a toolkit for studying social worlds online, ask which aspects of society have truly changed because of the internet, and return to basic sociological concepts as they play out on the web, as we ask and answer meaningful questions about the sociology of the internet.

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

STATISTICS & MACHINE LEARNING

Introduction to Data Science
SML 201
Professor: Guerzhoy, Michael
Description: Introduction to Data Science provides a practical introduction to the burgeoning field of data science. The course introduces students to the essential tools for conducting data-driven research, including the fundamentals of programming techniques and the essentials of statistics. Students will work with real-world datasets from various domains; write computer code to manipulate, explore, and analyze data; use basic techniques from statistics and machine learning to analyze data; learn to draw conclusions using sound statistical reasoning; and produce scientific reports. No prior knowledge of programming or statistics is required.

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

Pedagogy of Data Science
SML 480
Professor: Guerzhoy, Michael
Description: In this seminar, we will explore the pedagogy of introductory data science. Students in the seminar will be required to work as undergraduate course assistants in SML 201 -- Introduction to Data Science. SML 201 topics will be discussed in more depth in the seminar, with a view of teaching the basic material. We will discuss literature in the pedagogy of computer science and statistics.

Discussion topics will include teaching programming using the functional programming paradigm, the design of the dplyr package, simulation-based inference, teaching statistics using simulation-based inference, the grammar of graphics, and causal inference.

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

PROGRAM IN URBAN STUDIES

Introduction to Urban Studies
URB 201
Professor: Boyer, M. Christine
Description: This course will examine different crises confronting cities in the 21st century. Topics will range from informal settlements, to immigration, terrorism, shrinking population, sprawl, rising seas,
affordable housing, gentrification, smart cities. The range of cities will include Los Angeles, New Orleans, Paris, Logos, Caracas, Havana, New York, Hong Kong, Dubai among others.

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

**WOODROW WILSON SCHOOL**

**Grand Strategy**  
**WWS 315**  
**Professors:** Friedberg, Aaron Louis  
Ikenberry, G. John

**Description:** Grand strategy is the broad and encompassing policies and undertakings that political leaders pursue-financial, economic, military, diplomatic-to achieve their objectives in peacetime and in war. This course will examine the theory and practice of grand strategy both to illuminate how relations among city-states, empires, kingdoms and nation states have evolved over the centuries and also to identify some common challenges that have confronted all who seek to make and execute grand strategy from Pericles to Barack Obama.

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

**International Trade**  
**WWS 301**  
**Professor:** Weyerbrock, Silvia

**Description:** This course analyzes the causes and consequences of international trade and foreign direct investment. We investigate why nations trade, what they trade, and who gains and who loses from trade. We then focus on economic and political motives for countries to restrict or regulate international trade and study the economic effects of such policies. Topics include trade and wage inequality, labor migration, multinationals and outsourcing, multilateral trade negotiations, regional economic integration (and Brexit), trade policy in developing countries, and current trade and trade policy disputes.

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

**Law, Institutions and Public Policy**  
**WWS 333**  
**Professor:** Starr, Paul Elliot

**Description:** This course will examine how institutions develop, vary in design, and shape public policy. Law will be a primary focus because it is central to the development of institutions in modern societies and provides the formal means for expressing and fixing policy. The course will cover a wide range on institutions-social, economic, and political - not only in an American context but also in comparative perspective.

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

**Microeconomics for Public Policy**  
**WWS 300**  
**Professor:** Fleurbaey, Marc

**Description:** Microeconomics is the study of how the economy works as a result of myriad decisions by individual agents (households, firms), in interaction among themselves and with public authorities. This course, taught at the intermediate level, starts from public policy issues (the design of well-being indicators, tax rules, health care policy, education, competition regulation, environment protection) and introduces the concepts with which
economists analyze the success and failures of the market economy, the reasons for public intervention and the effects of policy. Students must have a working knowledge of single-variable calculus.

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

Population, Society and Public Policy
WWS 330
Professor: Hendi, Arun

Description: Are large populations a gift or a curse? Can humans live forever? Is marriage obsolete? How many people can planet earth support sustainably? Why does China have more boys than girls? Why is US life expectancy so low? Is it possible for the US to seal its borders? Will population aging destroy the economy? Why is fertility so low in Korea? Why do countries with youthful populations experience so much social unrest? Can immigration solve population aging in Europe? Is demography destiny? Students will learn basic demographic concepts and engage longstanding debates about whether population growth promotes or undermines development.

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

Psychology of Decision Making/Judgment
WWS 340
Professor: Shafir, Eldar

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

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

The Environment: Science and Policy
WWS 350
Professor: Oppenheimer, Michael, Wilcove, David S.

Description: This course examines the ways domestic US and international environmental regulatory frameworks adopt, interpret and otherwise accommodate scientific information. The course focuses on several case studies, that provide insights into the science-policy interactions which emerge from managing natural resources and environmental risk. Topics include air pollution; climate change; ozone depletion; managing the world's forests, fisheries, and ecosystem services, and global trade in wildlife. Students will explore the science underlying these issues as well as current policies and the range of future policy responses.

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