CAP LECTURE LIST

Fall 2023 Classes

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

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Community Auditing Program
Office of Community and Regional Affairs
4 Mercer Street, Princeton, NJ 08540
Community Auditing Program Courses  
2023-2024 Fall

Website:  https://community.princeton.edu  
Email:  pucap@princeton.edu  
CAP office hours:  M – F, 9 a.m. – 4 p.m.  
Telephone: (609) 258-0202

- Fall class fee $200 per University course, per semester. Auditor Only Series fee $125 per course.
- Credit card accepted (Visa, MasterCard, and Discover).
- To drop a course and receive a refund, you must notify the CAP office in writing (email acceptable) by 5:00 pm on or before Wednesday, September 13, 2023.
- Registration on Day 1 and Day 2 is limited to one (1) course. Day 3 is limited to three (3) courses.
- Auditors may register for a total of 3 University classes plus the Auditor Only classes.

Wednesday, August 23, 2023

- **Online registration: opens at 11a.m.** – Day 1 ends on 8/24/2023 at 10:30 am  
  Day 1 Activated auditors only, one course limit

Thursday, August 24, 2023

- **Online registration: opens at 11a.m.** – Day 2 ends on 8/25/2023 at 10:30 am  
  Day 2 Activated auditors only, one course limit

Friday, August 25, 2023

- **Online registration opens at 11a.m.** – for all activated auditors

Friday, August 25 – Wednesday, September 13, 2023

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>Tuesday, September 5, 2023</th>
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<td>Wednesday, September 13, 2023</td>
<td>Last Day for Refunds, Written request required by 5:00 p.m.</td>
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ASC100 Exploring the Masterpieces of U.S. Ethnic Literature

Professor: Alfred Bendixen, Professor, Department of Gender and Sexuality Studies

Description: Our course explores four critically acclaimed novels that illuminate the experiences of specific American ethnic groups:

October 4: Gloria Naylor, Mama Day (1988)
November 8: Rudolfo Anaya, Bless Me, Ultima (1972)

Our discussion of the themes and techniques of these works will pay appropriate tribute to the literary artistry that marks these novels in addition to detailing the ways in which these books challenge conventional stereotypes about multiple aspects of minority experience in the United States.

Our exploration begins with Sherman Alexie’s young adult novel, The Absolutely True Diary of a Part-Time Indian, which was based on his own experiences growing up on the Spokane Indian reservation. The treatment of the protagonist’s aspirations and frustrations is both moving and comic, clearly demarcating the specific problems of native life in the United States while also rejecting any cult of victimhood in favor of an appreciation of our shared humanity. Gloria Naylor’s book moves between male and female perspectives as we join her in exploring both the island of New York City and a more mythic island landscape that emphasizes the spiritual and supernatural power of a Black and African feminist tradition. Mama Day is both the culmination of a long African American tradition going back to 19th-century stories of conjure women and the beginnings of Afrofuturist speculative fiction. It is also an amazing read. Our sense of the supernatural and the mythic receives a very different perspective in Chitra Banerjee Divakaruni’s The Palace of Illusions, which retells part of the Mahabharata from the perspective of Panchali, the blue goddess. Finally, Rudolfo Anaya’s Bless Me, Ultima offers a loving but realistic depiction of rural life in Hispanic New Mexico while it traces the impact of a curandera, a female healer, on a young boy’s journey to adulthood. These four books enlarge our sense of the mythic elements that shape much of U.S. ethnic literature and introduce us to a fuller view of the diversity, possibilities, and realities of American life. These texts provide new and very different ways of looking at race, class, sexuality, gender, and the whole process of discovering and defining the meaning of identity in American culture.

Dates: September 20, October 4, October 25, & November 8, 2023

Time: Wednesday's, 10:00am-11:30am

Location: Zoom
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.

ASC200 Bulrusher at McCarter

**Instructor:** Debbie Bisno, Director of University and Artistic Partnerships, McCarter Guest Guests
**Artists/Speakers:** Director Nicole A. Watson + Show and McCarter Creative Team Members (TBD)

**Description:** From PAGE TO STAGE with McCarter: Producers, Artists and Industry leaders take you behind the scenes of bringing a contemporary Pulitzer Prize Finalist in drama to life: BULRUSHER

**About the Play:** McCarter’s 23/24 season opens in September with Bulrusher, playwright Eisa Davis’ Pulitzer Prize finalist, which tells the captivating story of a multiracial orphan girl’s journey of self-discovery and her gift of clairvoyance. Directed by Nicole A. Watson, McCarter’s Associate Artistic Director, the play—“a gleaming marriage of poetry and myth,” according to the Star-Tribune—introduces audiences to a riveting story rich with compassion and thrills. A Co-Production with Berkeley Repertory Theatre.

*Find out what it means to produce an original theatrical work, how playwright, director, designers and producers collaborate, and what “co-producing” means between two nationally renowned theaters.*

**Date:** Friday's September 22, September 29 & October 6, 2023

**Class Time:** 2:00 pm - 3:30 pm

**Show:** Wednesday, September 22, 2023, 7:30 pm

**Format:** This is a hybrid class. Auditors will attend the performance on September 22, 2023, at McCarter Theater. Two classes will be held on Zoom and one class along with the performance will be held in-person.

Debbie Bisno (Resident Producer) joined McCarter in 2016. Her experience spans Broadway, Off-Broadway, West End, regional and nonprofit theater. Broadway highlights include the 2019 revival
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of Terrence McNally’s *Frankie and Johnny in the Clair de Lune* starring Audra McDonald and Michael Shannon. Other Broadway: *Grace, War Horse, HAIR, Merchant of Venice, Annie, Priscilla Queen of the Desert*. Off-Broadway and London: Ingmar Bergman’s *Through a Glass Darkly* starring Carey Mulligan, *Passion Play*, and *Merrily We Roll Along*. Debbie was Founder and Producing Artistic Director of Chicago’s Roadworks Productions with residencies at Steppenwolf and Victory Gardens theaters, producing over 20 Midwest and World Premieres by playwrights including Mike Leigh, Kenneth Lonergan, Chuck Mee, Eric Bogosian, Phyllis Nagy, and more. She’s an Advisory Member of NYC’s Playwrights Realm and on the Board of FASPE (Fellowships at Auschwitz for the Study of Professional Ethics). Debbie lives in Princeton with her husband David and their Portuguese Water Dog, Bernice.

**ASC300 Responsible AI**

**Professor:** Manail Anis, Visiting Professor, School of Public and International Affairs

**Description:** This 4-week long course on Responsible AI will introduce participants to the technology involved in the development of Artificial Intelligence. Touching on the ethical, compliance and risk aspects of AI, and understanding its application across diverse domains such as art, health, climate and education, participants will be exposed to various use cases of AI before arriving at an understanding of what responsible AI is, and how its evolution can be made possible.

Week 1: What is AI? How did it develop? How does it 'learn'? How does it work? (prompt engineering, LLM's)

Week 2: Ethical, compliance and risk aspects of AI

Week 3: How can AI be applied across varied areas such as art, health, climate and education?

Week 4: Can AI actually be 'responsible'? Can we play a role?

**Date:** class dates will be posted in August

**Time:** class time will be posted in August

**Location:** tbd

Manail Anis Ahmed is visiting faculty in technology ethics at the school of public and international affairs at Princeton university. She is also the cofounder of an AI-powered digital personal assistant for home and family management called iJuno. She has been building American-style higher education institutions in the Middle East and South Asia for the past 15 years.

Currently a research fellow at the Center for AI and Digital Policy in Washington, D.C., she also invests in early-stage education technology startups in Asia. She works to mitigate the inequities being perpetuated by new technologies around the world – the very same inequities that we hope ethical technology can address.
Manail is frequently invited internationally as a consultant, guest speaker and contributing author. She has a BA in Political Science from Swarthmore College, Pennsylvania and an MA in Asian Studies from the University of Wisconsin-Madison. She has also studied the political economy of development at SOAS, University of London, and trained in Indian and Islamic Art History at the British Museum.

ASC400 Philanthropy and Democracy

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

Description: Philanthropy is the use of private wealth for the public good. In its modern form it dates from the contributions of the late nineteenth century robber barons (Andrew Carnegie, John D. Rockefeller, Sr. and others), who developed a strategy to modernize traditional charity in order to use their wealth to try to improve people's lives. They created an institution, the private philanthropic foundation, to realize their dream, and the foundation went on to become the main philanthropic force of the twentieth century. But by the end of the century, a new and large group of ultra-wealthy entrepreneurs replaced both the robber baron philanthropists with new conceptions of philanthropy and new mechanisms for effectuating their ideas. These megaphilanthropists and their Big Philanthropy are now quite powerful. But are they good for democracy?

1. The origins of the modern, 20th century, idea of philanthropy and the creation of the foundation as its principal institution.
2. Civil society and the emergence of the non-profit sector in the United States.
3. The development of the large philanthropic foundation and its role in American life. Philanthropy and democracy.
4. The emergence of mega-philanthropists and mega-philanthropy in late twentieth century America. Philanthropy versus democracy?

Suggested reading:


Rob Reich, JUST GIVING: WHY PHILANTHROPY IS FAILING DEMOCRACY AND HOW IT CAN DO BETTER (Princeton U. Press, 2018)

Anand Giridharadas, WINNERS TAKE ALL: The Elite Charade of Changing the World (Knopf, 2018)

Date: Friday’s, September 29, October 6, 13 & 20, 2023

Time: 10:00 – 11:30 am

Stanley Katz is President Emeritus of the American Council of Learned Societies, the national humanities organization in the United States. Mr. Katz graduated magna cum laude from Harvard University in 1955 with a major in English History and Literature. He was trained in British and American history at Harvard (PhD, 1961), where he also attended Law School in 1969-70. His recent research focuses upon recent developments in American philanthropy, the relationship of
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civil society and constitutionalism to democracy, and upon the relationship of the United States to the international human rights regime. He is the Editor in Chief of the recently published Oxford International Encyclopedia of Legal History, and the Editor Emeritus of the Oliver Wendell Holmes Devise History of the United States Supreme Court. He also writes about higher education policy, and has published a blog for the Chronicle of Higher Education. He is the co-founder and editor of the history of philanthropy blog www.histphil.org. Formerly Class of 1921 Bicentennial Professor of the History of American Law and Liberty at Princeton University, Katz is a specialist on American legal and constitutional history, and on philanthropy and non-profit institutions. The author and editor of numerous books and articles, Mr. Katz has served as President of the Organization of American Historians and the American Society for Legal History and as Vice President of the Research Division of the American Historical Association. He is a member of the Board of Trustees of the Newberry Library, the Center for Jewish History and numerous other institutions. He also currently serves as Chair of the American Council of Learned Societies/Social Science Research Council Working Group on Cuba. Katz is a member of the New Jersey Council for the Humanities, the American Antiquarian Society, the American Philosophical Society; a Fellow of the American Society for Legal History, the American Academy of Arts and Sciences, and the Society of American Historians; and a Corresponding Member of the Massachusetts Historical Society. He received the annual Fellows Award from Phi Beta Kappa in 2010 and the National Humanities Medal (awarded by Pres. Obama) in 2

university courses

african american studies

african american history since emancipation
aas 367
professor(s): guild,joshua b.

description/objectives: this lecture offers an introduction to the major themes, critical questions, and pivotal moments in post-emancipation african american history. it traces the social, political, cultural, intellectual, and legal contours of the black experience in the united states from reconstruction to the rise of jim crow, through the world wars, depression, and the great migrations, to the long civil rights era and the contemporary period of racial politics. using a wide variety of texts, images, and creative works, the course situates african american history within broader national and international contexts.
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Schedule: L01 11:00 AM - 11:50 AM T TH

Intro to 20th C. African American Art  
AAS 245  
Professor(s): Okeke-Agulu, Chika O.

Description/Objectives: This course surveys history of African American art during the long 20th-century, from the individual striving of late 19th century to the unprecedented efflorescence of art and culture in 1920s Harlem; from the retrenchment in black artistic production during the era of the Great Depression, to the rise of racially conscious art inspired by the Civil Rights Movement; from black feminist art in the 1970s, to the age of American multiculturalism in the 1980s and 1990s; and finally to the turn of the present century when ambitious "postblack" artists challenge received notions of black art and racial subjectivity.

Schedule: L01 07:30 PM - 08:50 PM T TH

PROGRAM IN AMERICAN STUDIES

America Then and Now  
AMS 101  
Professor(s): Beliso-De Jesús, Aisha & Carruth, Allison

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

ANTHROPOLOGY

Introduction to Anthropology  
ANT 201  
Professor(s): Fuentes, Agustín

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

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

**ARCHITECTURE**

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

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

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

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

**ART AND ARCHAEOLOGY**

**Intro to History of Art: Visual Arts**  
**ART 100**  
**Professor(s):** Blessing, Patricia

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

**Schedule:** L01 10:00 AM - 10:50 AM M W
Modernist Art: 1900 to 1950  
ART 213  
Professor(s): Foster, Hal

Description/Objectives: A critical study of the major movements, paradigms, and documents of modernist art from Post-Impressionism to the "Degenerate" art show. Among our topics: primitivism, abstraction, collage, the readymade, machine aesthetics, photographic reproduction, the art of the insane, artists in political revolution, anti-modernism.

Schedule: L01 09:00 AM - 09:50 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 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

ASTROPHYSICAL SCIENCES

General Relativity  
AST 301  
Professor(s): Goodman, John

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

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

Life in the Universe  
AST 255  
Professor(s): Chyba, Christopher & Hecht, Michael

Description/Objectives: This course introduces students to a new field, Astrobiology,
where scientists trained in biology, chemistry, astrophysics and geology combine their skills to investigate life's origins and to seek extraterrestrial life. Topics include: the origin of life on earth, the prospects of life on Mars, Europa, Titan, Enceladues and extra-solar planets, as well as the cosmological setting for life and the prospects for SETI. 255 is the core course for the planets and life certificate.

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

**Planets in the Universe**

*AST 205*

**Professor(s):** Bakos, Gáspár

**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.

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

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**CIVIL AND ENVIRONMENTAL ENGINEERING**

**Engineering in the Modern World**

*CEE 102A*

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

**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

**Environmental Fluid Mechanics**

*CEE 305*

**Professor(s):** Bou-Zeid, Elie
Description/Objectives: The course starts by introducing the conservation principles and related concepts used to describe fluids and their behavior. Mass conservation is addressed first, with a focus on its application to pollutant transport problems in environmental media. Momentum conservation, including the effects of buoyancy and earth's rotation, is then presented. Fundamentals of heat transfer are then combined with the first law of thermodynamics to understand the coupling between heat and momentum transport. We then proceed to apply these laws to study air and water flows in various environmental systems, with a focus on the atmospheric boundary layer.

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

Intro to Environmental Engineering
CEE 207
Professor(s): Bourg, Ian

Description/Objectives: The course introduces the basic chemical and physical processes of relevance in environmental engineering. Mass and energy balance and transport concepts are introduced and the chemical principles governing reaction kinetics and phase partitioning are presented. We then turn our focus to the applications in environmental engineering problems related to water and air pollution.

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

CENTER FOR HUMAN VALUES

Practical Ethics
CHV 310
Professor(s): Singer, Peter Albert David

Description/Objectives: This course will challenge you to examine your life from an ethical perspective. What should your goals and values be? We are living in a world in which some enjoy many luxuries while others live in extreme poverty. Climate change poses a threat to both present and future generations, as well as to the natural environment. What should you do about these issues? Other questions to be discussed include abortion, euthanasia; the claim that all human life has equal value; the moral status of animals; and the ethics of what we eat, concern for the long-term future, and why we should act ethically.

Other Information: There is no required textbook. All essential readings will be available online.
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Schedule: L01 11:00 AM - 11:50 AM M W

CLASSICS

Ancient Sport and Spectacle
CLA 227
Professor(s): Haynes, Melissa

Description/Objectives: This course looks at Ancient Greco-Roman sport, spectacle entertainment and games; its origin in myth, its place in religious festivals, and the increasing institutional outlay on entertainment in the Roman empire. Areas of competition include chariot, horse and foot-races, boxing, wrestling, dance, gladiatorial fights, beast-hunts, public executions and more. We will also consider leisure activities (swimming, hunting, board games), magic and curses, sport medicine and diet, and gambling. We close with the direct interaction of Christianity with Roman spectacle entertainment and the afterlife of the games in this new world order.

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

Classical Mythology
CLA 212
Professor(s): Stergiopoulou, Katerina

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

COMPARATIVE LITERATURE

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

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
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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 11:00 AM - 12:20 PM M

The Gothic Tradition
COM 372
Professor(s): Alliston, April

Description/Objectives: Why is film and TV so haunted - by ghosts, vampires, zombies, uncanny robots, and even screens themselves? Moving images evoked haunting since their invention in the 18th century. An inherently Gothic medium, film developed in tandem with Gothic literature, haunting the 21st century with the nightmares of the 18th. Why do they keep coming back? In the standard ghost story, something important has been lost or something left undone. What is the buried legacy or the cultural work unfinished that the 18th century Gothic mode keeps returning to perform? This is the question we will strive to answer by analyzing narratives in visual media.

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

COMPUTER SCIENCE

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

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

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

Computers in Our World
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**COS 109**  
**Professor(s):** Kernighan, Brian  

**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

**Ethics of Computing**  
**COS 350**  
**Professor(s):** Narayanan, Arvind  

**Description/Objectives:** The course aims to help students think critically about the ethical and social aspects of computing technology. Topics include ethical foundations; political economy of the tech industry; algorithmic fairness; AI and labor; AI safety; AI and climate; social media and platform power; information security; privacy; values in design; research ethics; professional ethics; technology and social good; digital colonialism; law & policy. Activities will include readings, technical work, and case studies of contemporary debates.

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

**Functional Programming**  
**COS 326**  
**Professor(s):** Appel, Andrew  

**Description/Objectives:** An introduction to the principles of typed functional programming. Programming recursive functions over structured data types and informal reasoning by induction about the correctness of those functions. Functional algorithms and data structures. Principles of modular programming, type abstraction, representation invariants and representation independence. Parallel functional programming, algorithms and applications.

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

**Innovating Across Tech, Bus, & Mkts**  
**COS 448**  
**Professor(s):** Fish, Robert & Singh, Jaswinder  

**Description/Objectives:** 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.

**Other Information:** Past speakers: J. Dorsey, co-founder of Twitter and CEO of Square; M. Whitman, CEO of Ebay and now HP; F. Wilson, of Union Square Ventures; P. Graham, of Y!Combinator; S. Altman, of Y!Combinator; J. Hennessy, Pres. of Stanford University; J. Yang, co-founder of Yahoo!; D. Greene, co-founder and CEO of VMWare; J. Clark, co-founder of Netscape and Silicon Graphics.

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

**Introduction to Programming Systems**  
COS 217  
Professor(s): Moretti, Christopher & Rusinkiewicz, Szymon

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

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

**ECOLOGY AND EVOLUTIONARY BIOLOGY**

**Evolutionary Biology**  
EEB 309  
Professor(s): Ayroles, Julien

**Description/Objectives:**

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

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

**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 COVID-19) and the evolutionary basis of heterogeneity will be emphasized.

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

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**Life on Earth: Mechanisms of Change in Nature**  
**EEB 211**  
**Professor(s):** Kocher, Sarah, Levine, Jonathan & Sullivan, Katherine

**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

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**ELECTRICAL AND COMPUTER ENGINEERING**

**Electronic and Photonic Devices**  
**ECE 308**  
**Professor(s):** Rand, Barry P.

**Description/Objectives:** Intro to fundamentals and operations of semiconductor devices and sensors and the micro/nano fabrication technologies used to make them. The devices include field-effect transistors, photodetectors and solar cells, light-emitting diodes and lasers. Applications to be discussed include computing and microchips, optical transmission of info (the internet backbone), displays and renewable energy. Students will fabricate their own devices in a clean room and test them via microprobes. Special emphasis will be placed on the interplay between the material properties, fabrication capabilities, device performance and ultimate system performance.

**Other Information:** Free online textbook: https://people.eecs.berkeley.edu/~hu/Book-Chapters-and-Lecture-Slides-download.html
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Schedule: L01 08:30 AM - 09:50 AM T TH

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

Economics of Europe
ECO  372
Professor(s): Weyerbrock, Silvia

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

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

Economics of the Labor Market
ECO  331
Professor(s): Jin, Xin

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
Introduction to Macroeconomics  
ECO 101  
Professor(s): to be determined  

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

Macroeconomics  
ECO 301  
Professor(s): Zaidi,Iqbal  

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

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

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 03:00 PM - 04:20 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

ENGINEERING

Venture Capital & Finance of Innovation  
EGR 395  
Professor(s): Hejazi, Shahram

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

Note: **This class is by application only.** To be considered please submit a detailed description of your professional background and your reason for wanting to take this class. Submit to pucap@princeton.edu by August 11, 2023. Submissions after the deadline will not be considered.

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

### ENERGY STUDIES

**Designing Sustainable Systems**  
**ENE 202**  
**Professor(s):** Meggers, Forrest Michael

**Description/Objectives:** The course presents global anthropogenic impacts on the environment and their relationship to sustainable design. It focuses on understanding principles of applied sciences, and how IoT and Digital Fabrication facilitates rapid and deployable sensors and systems to make and analyze designs. Part 1) Global Change and Environmental Impacts: studying influences on basic natural systems and cycles and how we can evaluate them to rethink building design. Part 2) Designing Sustainable Systems: address learned synergies between making buildings more efficient and less prone to disease transmission through alternative heating cooling and ventilation.

**Other Information:** The 2023 course will include a new component supported by the Council on Science and Technology using immersive learning by creating a radiant heating musical instrument that ties physics of heat transfer to student's creative interests in music, and ability to have intuition for using it in the design project.

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

### ENGLISH

**19th-Century Fiction**  
**ENG 345**  
**Professor(s):** Nunokawa, Jeff

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

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

**American Literature: 1930-Present**  
**ENG 368**  
**Professor(s):** Mitchell,Lee Clark

**Description/Objectives:** A study of eleven modern American writers over eighty years that emphasizes the transition from modernism to postmodernism to retro-realism.

**Other Information:**  
For students who are unable to enroll in the course please use the following link to access the waitlist: www.bit.ly/ENG368FA23. ENG Major Distribution Area: Post-1900

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

**Modern Fiction**  
**ENG 360**  
**Professor(s):** DiBattista,Maria A.

**Description/Objectives:** The modern movement in English fiction from Conrad, Joyce and Woolf to Nabokov and Rushdie, writers who changed our sense of what a novel is, what it can say and how it can say it.

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

**Shakespeare: Toward Hamlet**  
**ENG 318**  
**Professor(s):** Cormack,Bradin T.

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

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

**FRENCH**

**French Lit., Culture & Society to 1789**  
**FRE 221**  
**Professor(s):** Champy,Flora
**Description/Objectives:** Civil war, the rise of a centralized government, colonization, overwhelming public debt and attempts at women's liberation: this class covers the tumultuous history that led to the French Revolution while providing advanced language training. We study period documents as well as literary and artistic material. Topics include courtly love, Jeanne d'Arc, Versailles, Marie-Antoinette, the Enlightenment, the Revolution and Terror.

**Other Information:**
Course conducted in French. Visits to the Princeton University Library Special Collection and Museum.

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

**PROGRAM IN GENDER AND SEXUALITY STUDIES**

**Introduction to Gender and Sexuality Studies**  
**GSS 201**  
**Professor(s):** Clune-Taylor, Catherine

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

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

**HISTORY**

**20th-Century Japan**  
**HIS 322**  
**Professor(s):** Garon, Sheldon Marc

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

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

Asian American History
HIS 270
Professor(s): Lew-Williams, Beth

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

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

English Constitutional History
HIS 367
Professor(s): Jordan, William Chester

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

Schedule: L01 10:00 AM - 10:50 AM 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 eventually became modern Europe.

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

Native American History
HIS 271
Professor(s): Ellis, Elizabeth

Description/Objectives: This course is designed to introduce students to the historical processes and issues that have shaped the lives of Indigenous Americans over the past five centuries. We will explore the ways that the diverse peoples who lived in the Americas constructed different kinds of societies and how their goals and political decisions shaped
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the lives of all those who would come to inhabit the North American continent. The course requires students to read and analyze historical documents and contemporary literature and includes a visit to the National Museum of the American Indian in New York City.

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

Slavery and Democracy in the New Nation
HIS 373
Professor(s): Wilentz, Sean

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

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

The Formation of the Christian West
HIS 343
Professor(s): Reimitz, Helmut

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

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

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

Description/Objectives: 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.
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Schedule: L01 03:30 PM - 04:20 PM M W

The Mediterranean
HIS 225
Professor(s): Greene, Molly

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

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

Unrest and Renewal in Urban America
HIS 388
Professor(s): Isenberg, Alison Ellen

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.

Other Information: Course usually includes a historical walking tour in New York.

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

ITALIAN

Dante's 'Inferno'
ITA 303
Professor(s): Marchesi, Simone

Description/Objectives: Intensive study of the "Inferno", with major attention paid to poetic elements such as structure, allegory, narrative technique, and relation to earlier literature, principally the Latin classics. Course conducted in English in a highly interactive format.
Other Information:
Course will take advantage of the wide array of resources available on campus to Dante students, from Firestone's holdings to the web-based Princeton Dante Project. will be taught in English.

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

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

Intonation: Melody in Language
LIN 310
Professor(s): Ahn, Byron T.

Description/Objectives: This course explores intonation (the melodic patterns of sentences), addressing questions like: What does punctuation (e.g., a comma) sound like? How can we measure intonation, acoustically? How is intonation different from "tone" in languages like Mandarin? How do we transcribe intonation and analyze it? Students learn how to use laboratory methods and computer software to study intonation in spoken languages. (We focus on Mainstream American English but study other languages/dialects as well.) We also examine how intonational features relate to other aspects of language, such as sentence structure, linguistic meaning, and social context.

Schedule: L01 1:20 PM - 2:50 PM M W

Syntax
LIN 302
Professor(s): Ahn, Byron T.
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**Description/Objectives:** Syntax is the aspect of human language involved in building phrases out of words. How do words combine - like beads on a string? Are words the smallest building blocks of phrases? How can we make predictions about what is possible and impossible in these structures? This course aims to answer these questions while focusing on the methods linguists use to analyze natural language expressions. Explorations of some universal properties of language structures, as well as the ways in which those structures can vary. Strong emphasis on building and testing hypotheses on the basis of both language data and foundational principles of the field.

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

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**MECHANICAL AND AEROSPACE ENGINEERING**

**Modern Solid Mechanics**  
MAE 223  
**Professor(s):** Kosmrlj, Andrej

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

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

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

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**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. This course satisfies the MAE departmental requirement in materials as well as the MSE certificate core requirement.

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

Analysis II: Complex Analysis  
MAT 335  
Professor(s): Naor, Assaf

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

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

Applied Algebra  
MAT 340  
Professor(s): 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 course work in the department. Topics include rigorous epsilon-delta treatment of limits, convergence, and uniform convergence of sequences and series. Continuity, uniform continuity, and differentiability of functions. The Heine-Borel Theorem. The Riemann integral, conditions for integrability of functions and term by term differentiation and integration of series of functions, Taylor's Theorem.

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

MOLECULAR BIOLOGY
Biochemistry
MOL 345
Professor(s): Hughson,Frederick McLaury

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

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

Intro to Cellular & Molecular Biology
MOL 214
Professor(s): Notterman,Daniel A. Thieringer,Heather A.

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

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

Muslims and the Qur'an
NES 240
Professor(s): Zaman, Muhammad Qasim

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

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

NEUROSCIENCE

Functional Neuroanatomy
NEU 200
Professor(s): Graziano, Michael Steven

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

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

Fundamentals of Neuroscience
NEU 201
Professor(s): McBride, Lindy

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

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

### OPERATIONS RESEARCH AND FINANCIAL ENGINEERING

**Computing and Optimization**  
ORF 363  
Professor(s): Ahmadi, Amir Ali

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

**Other Information:** Students typically use MATLAB-based optimization software CVX, but are free to use another software of their choice (e.g., Python-based software CVXPY).

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

**Energy and Commodities Markets**  
ORF 455  
Professor(s): Sircar, Ronnie

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

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

**Fundamentals of Statistics**  
ORF 245
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**Professor(s):** Kulkarni, Sanjeev Ramesh

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

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

**Probability and Stochastic Systems**  
ORF 309  
Professor(s): 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): Kelly, Thomas P. Rosen, Gideon Avram

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

**Introduction to Ancient Greek and Roman**  
PHI 205  
Professor(s): Kotwick, Mirjam Engert Lorenz, Hendrik

**Description/Objectives:** This course discusses the ideas and arguments of major ancient Greek philosophers and thereby introduces students to the history and continued relevance of the first centuries of western philosophy. Topics include the rise of cosmological speculation, the beginnings of philosophical ethics, Plato's moral theory and epistemology, Aristotle's philosophy of nature, metaphysics and ethics. The course ends with a survey of philosophical activity in the Hellenistic period.
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Schedule: L01 11:00 AM - 11:50 AM M W

Philosophy of Science  
PHI 321  
Professor(s): Builes, David

Description/Objectives: The concepts of causation, laws of nature, and objective chance are central to scientific theories and have long been of interest to philosophers. This class will explore different philosophical theories of these concepts. Along the way, we will discuss the question of realism vs anti-realism in science, the relationship between fundamental physics and the special sciences, the status of natural kinds, and the problem of induction.

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

POLITICS

Abraham Lincoln Politics  
POL 331  
Professor(s): Guelzo, Allen Carl

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

Schedule: L01 12:30 PM - 01:20 PM T TH

American Foreign Policy  
POL 392  
Professor(s): Blair, Christopher William

Description/Objectives: This course explores America's role in the world. The goal of the class is to help students critically analyze the major dynamics shaping U.S. foreign policy today, as well as to understand theoretical perspectives on foreign policymaking. There are three major elements: a study of the history of American foreign relations since the 19th century; an analysis of the causes of American foreign policy such as the international system, public opinion, and the media; and a discussion of the major policy issues in contemporary U.S. foreign policy, including terrorism, the rise of China, and climate change.
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**Other Information:** Basic familiarity with international relations theory will be useful but is not required.

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

**American Politics**  
POL 220  
**Professor(s):** Frymer, Paul

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

**Constitutional Interpretation**  
POL 315  
**Professor(s):** George, Robert Peter

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

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

**International Political Economy**  
POL385  
**Professor(s):** Mosley, Layna

**Description/Objectives:** This course examines the interactions between international politics and international economics, as well as between domestic political systems and the global economy. Topics include the World Trade Organization, regional trade cooperation (such as the European Union), multinational corporations and global supply chains, exchange rates, financial crises, the International Monetary Fund and the contemporary anti-globalization backlash. Students will develop a familiarity with social scientific research methods, including how scholars develop and evaluate causal claims. Previous coursework in international economics is not necessary.

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

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

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

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

Political Economy
POL 349
Professor(s): Gieczewski, German Sergio

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

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

Political Economy of the United States
POL 335
Professor(s): McCarty, Nolan

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

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

Political Theory
POL 210
Professor(s): Stilz, Anna B.

Description/Objectives: 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, Douglass, Machiavelli, Rousseau, and Tocqueville. This is an introductory course, which
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emphasizes both thematic and historical approaches to political theory, and its role in informing contemporary civic engagement.

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

**PSYCHOLOGY**

**Introduction to Psychology**  
PSY 101  
**Professor(s):** Cooper, Joel.

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

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

**Psychology of Language**  
PSY 309  
**Professor(s):** Goldberg, Adele E.

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

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

**Psychopathology**  
PSY207  
**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 11:00 AM - 11:50 AM T TH

Who Wrote the Bible  
REL 230  
Professor(s): Feldman, Liane M.

Description/Objectives: This course introduces the Hebrew Bible (Christian "Old Testament"), a complex anthology written by many people over nearly a thousand years. In this class, we will ask questions about the Hebrew Bible's historical context and ancient meaning, as well as its literary profile and early reception. Who wrote the Bible? When and how was it written? What sources did its authors draw on to write these stories? And to what circumstances were they responding? Students will develop the skills to critically analyze written sources, and to understand, contextualize, and critique the assumptions inherent in modern treatments of the Bible.

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

SLAVIC LANGUAGES AND LITERATURES

Putin's Russia Before and After the War  
SLA 213  
Professor(s): Leving, Yuri

Description/Objectives: Vladimir Putin has confounded world leaders and defied their assumptions as they tried to figure him out, only to misjudge him time and again. In 2022, against all predictions the authoritarian leader started Europe's bloodiest war since WWII. While looking at Putin's rise to power (and his impending fall), we will also seek during this course to go beneath politics and policy to look at how human beings experience state power within the cultural phenomena including visual arts, literature, cinema, TV, Internet, popular music, and photography.

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

American Society and Politics
SOC 201
Professor(s): Starr, Paul Elliot

Description/Objectives: An introduction to the social bases of American politics and the political forces in the shaping of American society. Topics include divisions of class, race, gender, and party; struggles over national identity and immigration; social movements and civic participation; changes in the media; and the uncertain future of American democracy.

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

SPANISH

Introduction to Latin American Studies
SPA222
Professor(s): Nouzeilles, Gabriela

Description/Objectives: An introduction to modern Latin American cultures and artistic and literary traditions through a wide spectrum of materials. We will discuss relevant issues in Latin American cultural, political, and social history, including the legacies of colonialism, the African diaspora, national fictions, gender and racial politics. Materials include short stories by Jorge Luis Borges and Samanta Schweblin; poems by Afro-Cuban poet Nicolás Guillén and Mexican poet Sara Uribe; paintings by Mexican muralists; films by Santiago Mitre and Claudia Llosa; writings by Indigenous activist Ailton Krenak.

Other Information: Course taught in Spanish.

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

SCHOOL OF PUBLIC & INTERNATIONAL AFFAIRS

Education Policy in the United States
SPI 387
Professor(s): Jennings, Jennifer L.

Description/Objectives: This survey course will introduce you to the central issues in K-12 education policy. We will first consider the normative dimensions of education policymaking: What are the substantive and distributional goals of K-12 public education? What does, and should, equality of educational opportunity mean in theory and
practice? After introducing a framework for combining values and evidence, we will consider the empirical evidence on a range of policy levers, including policies that address school accountability, teacher quality, school choice, and curricula.

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

**Ethics and Public Policy**  
**SPI 370**  
**Professor(s):** Macedo, Stephen Joseph

**Description/Objectives:** The course examines major moral controversies in public life and competing conceptions of justice and the common good. It seeks to help students develop the skills required for thinking and writing about the ethical considerations that ought to shape public institutions, guide public authorities, and inform citizens' moral judgments in politics. We focus on issues that are particularly challenging for advanced, pluralist democracies such as the USA, including justice in war, terrorism and torture, market freedom and distributive justice, immigration, refugees, and criminal justice in conditions of social injustice.

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

**International Development**  
**SPI 302**  
**Professor(s):** Adsera, Alicia

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

**Other Information:**  
The class uses basic economic concepts and statistics; ECO 100 and ECO 101 are recommended.

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