

Harvard University Summer School Courses 2002

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Anthropology and Archaeology

ANTH S-110. Introduction to Social Anthropology (CRN: 30882)

Theodore Macdonald PhD, Associate in Social Anthropology, Peabody Museum of Archaeology and Ethnology and Associate Director, Program on Nonviolent Sanctions and Cultural Survival, The Weatherhead Center for International Affairs, Harvard University

The course explores anthropological approaches to society, culture, history, and current events. Lectures, readings, and films explore social and cultural diversity through a range of themes: social organization, ideology, religion, exchange, subsistence, gender, land use, ethnicity, ethnic conflict, and local/global interrelations. The themes are illustrated through detailed studies of women in North Africa, ethnicity in Bosnia, ritual exchange in the South Pacific, and political organization in Southeast Asia. The instructor also reviews his current applied research on contemporary indigenous responses to political, economic, and ecological changes in Latin America, with special emphasis on the Amazon Basin. Students are asked to grapple with anthropologists' past and present intellectual and ethical challenges.

ANTH S-134. Mesoamerican Civilizations (CRN: 31607)

William L. Fash PhD, Bowditch Professor of Central American and Mexican Archaeology and Ethnology, Harvard University

Mesoamerica is one of the great culture areas of the ancient and modern worlds. The peoples of the region, inhabiting what is today Mexico and upper Central America, include the Maya, the Zapotec, and the Aztec, who long ago developed their own unique brand of civilization, with cities, states, empires, and written histories. Their modern descendants, only a few centuries after being "conquered," now struggle to adapt their own identities to the contemporary world. But due to their resiliency in the face of immense pressures to change, many of their traditional practices still thrive, some intact, others in a highly transformed state. Prodigious scholarship sheds light on the origins and evolution of ancient Mesoamerican traditions and how they can sometimes shape present social and political realities. Today, Maya intellectual and political activists offer their own interpretations of the past and the present movements for cultural nationalism. We begin the course by examining the ideas that drove PreColumbian religion, art, and political economy, analyzing the ways in which power and social identity were constructed through myth, ritual, and official history. We will encounter numerous customs and achievements of Mesoamericans, and discover the legacies of several great orators, warriors, and statesmen such as Nezahualcoyotl, 8 Deer Jaguar Claw, and Yax Kuk Mo. We then pursue the continuities and changes in those traditions brought about by the Spanish conquest, colonial rule, and subsequent global change in the twentieth century. This broad historical sweep allows us a deeper understanding of how the Mesoamerican past continues to shape the present there, and conversely, how living cultures and behaviors help illuminate processes, events, and worldviews in the archaeological past. This course allows students to appreciate the breadth and depth of Mesoamerican civilizations through lectures; films; icons; manuscripts, and artifacts in the collections of the Peabody Museum; readings on PreColumbian, colonial, and modern-day cultures; and publications by prominent Maya scholars involved in social movements to promote self determination in the twenty-first century.

Astronomy

ASTR S-35. Fundamentals of Contemporary Astronomy: Stars, Galaxies, and the Universe (CRN: 31194)

Rosanne Di Stefano PhD, Visiting Scholar in Astronomy, Harvard University

The fundamentals of astronomy will be covered in the context of contemporary research. We will study several areas that are being actively investigated by astronomers today. Topics will include: stars, galaxies, and the large-scale structure of the universe; the history of the universe; the nature of dark matter; and new observational instruments and techniques.

ASTR S-8. Planets, Moons, and the Search for Alien Life: An Introduction to the Solar System and to the Search for Planets Around Other Stars (CRN: 31489)

Alessandro Massarotti PhD, , Assistant Professor of Physics and Astronomy, Stonehill College

The course covers the astrophysics of the solar system, the search for planets around other stars, and the probability of finding life on other planets or their moons. Weekly sections allow the discussion of extra material, such as scientific articles, and hands-on learning, with the use of various demonstrations and of material from the Harvard Museum of Natural History. Topics will include: the Sun, the planets, and the moons in our solar system; comets and asteroids; the origin of the solar system and models for its formation; a broad discussion of what is known about the origin of life on Earth and its evolution; mass life extinctions, and the role that giant asteroid impacts play in the evolution of life; the formation of stars and planetary systems; the recent successful search for planets around other stars; the future searches for extrasolar planets currently being planned; and the possibility of discovering Earth-like planets around other stars in the near future.

Biology

BIOL S-100b. Biochemistry: Nucleic Acids and Molecular Genetics (CRN: 31301)

David Dressler PhD, Lecturer on Biochemistry, Oxford University

DNA as the genetic material: basic principles of replication, recombination, repair, mutagenesis, RNA transcription, protein translation, and control of gene expression will be explored. Topics such as gene therapy, molecular medicine, cancer, and cardiovascular disease will be used to integrate the underlying molecular biochemistry. Designed as a companion course to BIOL S-100a, but may be taken independently.

BIOL S-100a. Biochemistry: Structure and Function of Proteins (CRN: 31300)

David Dressler PhD, Lecturer on Biochemistry, Oxford University

Basic principles of the enzymatically catalysed reaction: metabolism, energy production, and the physiological processes of living cells and organisms will be discussed in terms of proteins functioning as molecular machines. Proteins as catalysts, hormonal signaling agents, receptors, architectural elements, and immune system antibodies will be explored. The roles of the four major classes of macromolecule--proteins, carbohydrates, lipids and membranes, and, briefly, nucleic acids--will be delineated in terms of their medically and physiologically relevant biological chemistry. May be taken concurrently with BIOL S-100b.

BIOL S-172. Biological Perspectives on HIV and AIDS (CRN: 31099)

Robert Lue PhD, Senior Lecturer on Molecular and Cellular Biology, Harvard University

Conservative estimates indicate that more than 60 million men, women, and children worldwide have been infected with HIV since the start of the epidemic. It is expected that the vast majority of these people will go on to develop AIDS and become part of the most serious medical crisis in recorded history. This course will examine the molecular biology of both the virus and the immune system that it destroys. The history of the disease also will be traced and compared to current theories of HIV transmission, clinical testing, and the potential for effective therapies and vaccines. The biology of the virus will be related at each step to issues of public policy and human behavior.

BIOL S-21. Comparative Functional Anatomy of the Vertebrates (CRN: 31314)

Karel F. Liem PhD, Henry Bryant Bigelow Professor and Curator of Ichthyology, Harvard University

A functional perspective of comparative vertebrate anatomy. Lectures concentrate on the important evolutionary transformations of selected organ systems and their functional meaning during the diversification of the major groups of vertebrates. Laboratory exercises involve dissections of representative vertebrates and some laboratory demonstrations. Even though this course provides the essential foundation for biologists in general, it is especially appropriate for entry into professional schools and programs.

BIOL S-169c. Introduction to Immunology (CRN: 30016)

Jeffrey Lyczak PhD, Research Fellow in Medicine, Harvard Medical School

This course focuses on the molecular and cellular biology of the immune system, including the structure, function, and genetics of the major molecules needed to elicit an immune response. Emphasis is on the interactions among cell-surface structures and extracellular molecules leading to an immune response, and the manner by which antibodies and immune cells protect an individual against infection and harmful foreign materials.

BIOL S-1ab. Introductory Biology (CRN: 30607)

William Fixsen PhD, , , Senior Lecturer on Molecular and Cellular Biology, Harvard University

The principles of biology will be covered in this course, with special reference to the structural, functional, and molecular mechanisms and organization of cells; genetics; development; evolution; anatomy; and physiology. Emphasis will be on cells as

evolved systems for the capture and transformation of energy and the processing of information, the evolution of multicellularity, and the continued interplay of structure and function at the organ level. BIOL S-1ab fulfills the requirement of a year course in biology needed for admission to medical school.

BIOL S-74. Marine Biology (CRN: 30014)

Ron J. Etter PhD, Professor of Biology, University of Massachusetts, Boston

This is a general overview of marine biology designed to introduce students to the biology, ecology, and physiology of marine organisms. Topics will include the effects of currents, tides, and waves on marine organisms; the diversity and ecology of the major groups of organisms inhabiting the seas, including plants, invertebrates, fish, and mammals; the ecology of the major oceanic biomes such as coral reefs, the deep sea, and the intertidal zone; contemporary research in marine biology; the use of underwater habitats and submersibles in underwater research; and problems of marine pollution. Students participate in weekly laboratory sessions working with live material and field trips to the Marine Science Center and the New England Aquarium.

BIOL S-80. Neurobiology (CRN: 30017)

Shawn Murphy PhD, MD, Instructor in Medicine, Harvard Medical School

An introduction to the organization and function of the nervous system. Topics to be covered include cell biology of neurons, physiology of excitable membranes and electrical signaling, neurotransmitters and neuropeptides, sensory systems, motor systems, developmental neurobiology, simple circuits, and behavior. Discussion of the molecular basis of neurodegenerative and neuropsychological disease.

BIOL S-110. Principles and Techniques of Molecular Biology (CRN: 31200)

Alain Viel PhD, Instructor in Dermatology, Harvard Medical School

Robert Lue PhD, Senior Lecturer on Molecular and Cellular Biology, Harvard University

The course will address both the fundamental principles and techniques of molecular biology. Students will gain an in-depth knowledge of nucleic acid structure, molecular genetics, and the biochemistry of transcription and protein synthesis. Other topics will include how mechanisms of gene regulation play a role in retroviral pathogenesis, embryonic development, and the generation of immune diversity. Each lecture will directly relate molecular biology to current laboratory techniques. The laboratory portion of the course will represent a complete experimental project. A combination of experiments will give students a broad exposure to several important techniques in molecular biology, together with the direct experience of an intensive research project. Experiments will include current approaches to mutation analysis, protein interaction assays, and recombinant cDNA cloning by PCR.

BIOL S-76. Principles of Cell Biology (CRN: 30015)

Robert Lue PhD, Senior Lecturer on Molecular and Cellular Biology, Harvard University

This course is an introduction to the structure and function of cells. Emphasis will be placed on exploring modern research tools, such as microscopy, protein separation techniques, and molecular biology, that are used to understand and manipulate cell function. Emphasis will be placed on the cellular and molecular basis of selected disease states such as inherited tendencies to have high blood cholesterol levels as well as diabetes. Current strategies used to develop new treatments for cancer will be used as a window to understand the molecular basis of this disease. Lectures will include animations and time-lapse microscopy illustrating fundamental cellular processes.

BIOL S-77. Principles of Genetics (CRN: 30046)

Steven Theroux PhD, Associate Professor of Biology, Assumption College

This course will focus on the fundamentals of transmission and molecular genetics. Topics will include chromosome structure and replication, genetic linkage and mapping, regulation of gene expression, genetic mutation, and the principles of genetic engineering. Pertinent applications to modern biological problems also will be discussed.

Celtic Languages and Literatures

CELT S-132. Beginning Modern Irish I (CRN: 30019)

Kenneth E. Nilsen PhD, Professor of Celtic Studies, St. Francis Xavier University

For students with little or no previous knowledge of Irish who are interested in obtaining a solid foundation in the language. The emphasis of the course will be on learning to speak and write Irish. Equal importance will be given to conversational practice and grammatical exercises. The class will read several simple prose texts and learn a number of songs and traditional rhymes and proverbs.

CELT S-110. Introduction to Irish Myth and Folklore (CRN: 31418)

Elizabeth A. Gray PhD, , Associate of the Department of Celtic Languages and Literatures and Senior Associate Secretary to the University, Office of the Governing Boards, Harvard University

Christian Ireland preserved and reshaped pagan myth and epic and native social structures and customs. Later Irish folk tradition reflects this complex inheritance. Students will examine topics such as legends of goddesses and women saints; Ireland's sacred geography; deities, fairies, and heroes; and folk ritual.

Chemistry

CHEM S-1ab. General Chemistry (CRN: 30877)

James E. Davis PhD, Senior Lecturer on Chemistry and Chemical Biology and on Molecular and Cellular Biology, Emeritus, Harvard University

This is a comprehensive survey of chemistry for the general student. Emphasis will be placed on the principles underlying the formation and interaction of chemical substances: stoichiometry, states of matter, thermochemistry, atomic and molecular structure, intermolecular forces, solutions, thermodynamics, kinetics, chemical equilibrium, acids and bases, electrochemistry, and environmental chemistry. This course fulfills the requirement of two semesters of inorganic chemistry for entrance to medical school.

CHEM S-20ab. Organic Chemistry (CRN: 30609)

Garry Procter DPhil, Director of Undergraduate Laboratories, Department of Chemistry and Chemical Biology, Harvard University, George Ramage Professor of Organic Chemistry, University of Salford

This course is an intensive, comprehensive introduction to the chemistry of carbon and its importance to biological molecules. Topics will include current ideas of bonding and structure, major reaction mechanisms and pathways, a discussion of the analytical tools used to determine the structure and stereochemistry of organic compounds (such as infrared and NMR spectroscopy), and some of the chemistry of amino acids, peptides, carbohydrates, and nucleic acids. This course fulfills the requirement of two semesters of organic chemistry for entrance to medical school.

Chinese

CHIN S-Aa. Beginning Modern Chinese I (CRN: 30048)

Nien-Hsiang Chen MEd, Drill Instructor, East Asian Languages and Civilizations, Harvard University

This course assumes no previous knowledge of the subject and is equivalent to the first semester of the academic-year course. Goals of the course are for students to acquire the following skills: to hear and pronounce modern standard Chinese correctly; to write these sounds using the pinyin system of alphabetic spelling; to converse in simple sentences, based on the understanding of elementary grammatical structures; and to write and recognize some 370 Chinese characters, with an emphasis on recognition.

CHIN S-Aab. Beginning Modern Chinese I, II (CRN: 30047)

Miao-Chin Chiu MA, Drill Instructor, East Asian Languages and Civilizations, Harvard University

This is an intensive introduction to learning modern Chinese: listening, speaking, grammar, writing, and reading. Pronunciation and spelling will be introduced using the pinyin system. Students will learn about 650 Chinese characters, with emphasis on recognition. This rigorous course will cover all the materials introduced in the first-year nonintensive Chinese program at Harvard.

CHIN S-102. Intermediate Modern Chinese (CRN: 31091)

Yu Feng PhD, Preceptor in Chinese, Harvard University

Equivalent to the second-year course during the academic year, this course is designed to consolidate the basic skills students have learned and introduce more complex grammatical structures. The text used for this course covers a wide range of topics related to traditional and contemporary Chinese culture and society. All of the materials are written in both traditional and simplified characters. The four skills--listening, speaking, reading, and writing--are equally emphasized.

CHIN S-131. The Harvard Summer Program in Shanghai, China (CRN: 31666)

Aimin Li PhD, Preceptor in Chinese, Harvard University

Eileen Cheng-yin Chow PhD, Assistant Professor of East Asian Languages and Civilizations, Harvard University

See Study Abroad Programs.

Classics

CLAS S-125. Myth and Poetry in Greece and Rome (CRN: 31664)

Albert M. Henrichs DPhil, Eliot Professor of Greek Literature, Harvard University

The mythical world of gods and heroes as seen through the eyes of Greek and Roman poets. Emphasis on continuity and change in the formation of the poetic voice; on genre, narrative techniques, and story patterns; gender roles and fictional identities; the role of myth and religion; and the interplay of past and present. Texts (in translation) include selections from Homer's *Odyssey* and *Homeric Hymns*, Hesiod's *Theogony*, Pindar and the Greek tragedians, the *Argonautica* of Apollonius of Rhodes, Virgil's *Aeneid*, Ovid's *Metamorphoses*, and Seneca's tragedies.

Comparative Literature

COMP S-107. Harvard Olympia Summer Program for Comparative Cultural Studies (CRN: 31605)

Gregory Nagy PhD, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature, Harvard University

Marc Shell PhD, Irving Babbitt Professor of Comparative Literature and Professor of English and American Literature and Language, Harvard University

See Study Abroad Programs.

COMP S-109. Reality, Desire, and the Epic Form: Homer, Dante, and Joyce (CRN: 31482)

Theoharis C. Theoharis PhD, Associate in Comparative Literature, Harvard University

The relation of desire and reality has been a constant topic in literature. The most comprehensive and influential treatments of that relation have come in the epic, which presents the real and the longed for as the poles organizing civilization and individual experience. This class will be a close reading of Homer's *Odyssey*, Dante's *Commedia*, and Joyce's *Ulysses*, to see how epic presentation of human love and knowledge, especially metaphoric depiction of these as journeys, has changed and stayed the same from the ancient to the modern world.

Creative Writing

CREA S-108r. Advanced Creative Nonfiction (CRN: 31525)

Jody Lisberger PhD, Preceptor in Expository Writing, Harvard University

In this advanced workshop, we will read in a variety of nonfiction genres--from memoir to the personal essay to the New Journalism--and examine how we can use the techniques of fiction to cut across traditional genre boundaries and tell our own stories. The emphasis will be on craft and expression. Students should bring copies of previous work (fewer than ten pages) to the first class meeting. Admission to the course will be based on this submission.

CREA S-106r. Advanced Fiction: Short Stories (CRN: 31449)

Jane A. Rosenzweig MFA, Preceptor in Expository Writing, Harvard University

This course is intended for students who have completed several stories or made significant headway on a novel, have read widely among the masters of fiction, and are working toward the goal of publication. The course includes discussion of published writing but largely follows the workshop format. Students are expected to produce two new stories or approximately 30 pages of a novel by summer's end. Students should bring approximately 15 pages of their fiction to the first class or submit it to the instructor c/o Harvard Summer School Writing Program, 8 Prescott Street, Cambridge, MA 02138 USA, before the class begins; admission will be based on this submission.

CREA S-105r. Advanced Fiction: The Novel (CRN: 31360)

Stratis Haviaras MFA, Editor Emeritus, <i>Harvard Review</i>, Harvard College Library

This course is intended for writers with advanced writing skills and broad familiarity with the work of American and European masters of the genre. Individuals enrolled in this course will be given reading and writing assignments according to their needs in structure, narrative voice, character development, and style. The class will be run mainly as a workshop: students will read each other's work and respond to it. Students must submit a writing sample to the instructor in advance by e-mail at stratis28635@yahoo.com; admission to the course will be based on this submission.

CREA S-135. Advanced Journalism: Investigative Reporting (CRN: 31672)

Matthew Brelis BA, Reporter, <i>Boston Globe</i>

The course will focus on reporting and writing longer hard news stories. Topics will include the Freedom of Information Act and the use of publicly available records, online research, computer spreadsheets, and databases. We will discuss strategies for gathering information from sources who may be unwilling to part with it; we will also discuss some of the pitfalls and traps of investigative reporting and how to avoid them.

CREA S-75. Beginning Creative Nonfiction (CRN: 31513)

David Gessner MA, Author

In this workshop, we will read in a variety of nonfiction genres--from memoir to the personal essay to the New Journalism--and examine how we can use the techniques of fiction to cut across traditional genre boundaries and tell our own stories. The emphasis will be on craft and expression.

CREA S-25 Section 5. Beginning Fiction (CRN: 31640)

Deborah Drnec Wilkes BA, Editor, Hackett Publishing Company, Inc.

Students learn and practice the fundamentals of writing fiction--description, dialogue, tone, plotting, and so on--in a workshop setting. By discussing and analyzing published short fiction, students learn the narrative techniques and strategies of creative writers. Intended for those who write regularly and wish to broaden their skills and talents.

CREA S-25 Section 4. Beginning Fiction (CRN: 31658)

Eliezra H. Schaffzin MFA, Preceptor in Expository Writing, Harvard University

Students learn and practice the fundamentals of writing fiction--description, dialogue, tone, plotting, and so on--in a workshop setting. By discussing and analyzing published short fiction, students learn the narrative techniques and strategies of creative writers. Intended for those who write regularly and wish to broaden their skills and talents.

CREA S-25 Section 1. Beginning Fiction (CRN: 31662)

Nina de Gramont BA, Author

Students learn and practice the fundamentals of writing fiction--description, dialogue, tone, plotting, and so on--in a workshop setting. By discussing and analyzing published short fiction, students learn the narrative techniques and strategies of creative writers. Intended for those who write regularly and wish to broaden their skills and talents.

CREA S-25 Section 3. Beginning Fiction (CRN: 31670)

Paul L. Harding MFA, Preceptor in Expository Writing, Harvard University

Students learn and practice the fundamentals of writing fiction--description, dialogue, tone, plotting, and so on--in a workshop setting. By discussing and analyzing published short fiction, students learn the narrative techniques and strategies of creative writers. Intended for those who write regularly and wish to broaden their skills and talents.

CREA S-25 Section 2. Beginning Fiction (CRN: 31671)

Paul L. Harding MFA, Preceptor in Expository Writing, Harvard University

Students learn and practice the fundamentals of writing fiction--description, dialogue, tone, plotting, and so on--in a workshop setting. By discussing and analyzing published short fiction, students learn the narrative techniques and strategies of creative writers. Intended for those who write regularly and wish to broaden their skills and talents.

CREA S-35 Section 3. Beginning Journalism (CRN: 30121)

June Carolyn Erlick MSJ, Publications Director, David Rockefeller Center for Latin American Studies, Harvard University

An intensive workshop for those interested in writing for newspapers or magazines. Assignments may include a short factual report, longer researched article, personal reportage, editorial, obituary, profile, critical review, and query letter. Reporting, interviewing, researching, and writing effectively are stressed, and ethical and legal concerns for a journalist addressed.

CREA S-35 Section 2. Beginning Journalism (CRN: 30122)

Kevin William Cullen BA, Nieman Fellow, Nieman Foundation, Harvard University

An intensive workshop for those interested in writing for newspapers or magazines. Assignments may include a short factual report, longer researched article, personal reportage, editorial, obituary, profile, critical review, and query letter. Reporting, interviewing, researching, and writing effectively are stressed, and ethical and legal concerns for a journalist addressed.

CREA S-35 Section 1. Beginning Journalism (CRN: 31569)

Elizabeth Vaughn Chandler BA, Nieman Fellow, Nieman Foundation, Harvard University

An intensive workshop for those interested in writing for newspapers or magazines. Assignments may include a short factual report, longer researched article, personal reportage, editorial, obituary, profile, critical review, and query letter. Reporting, interviewing, researching, and writing effectively are stressed, and ethical and legal concerns for a journalist addressed.

CREA S-30 Section 2. Beginning Poetry (CRN: 30118)

Janet Sylvester PhD, Preceptor in Expository Writing, Harvard University

Students learn and practice the fundamentals of writing poetry, including poetic elements such as rhythm, imagery, diction, and tone and poetic forms such as blank verse, free verse, the ghazal, and the sonnet. Classes will focus on analysis of work from a range of cultures and periods as well as workshops of student writing. Intended for those who write regularly and wish to develop their skills.

CREA S-30 Section 1. Beginning Poetry (CRN: 30884)

Daniel Bosch MA, Preceptor in Expository Writing, Harvard University

Students learn and practice the fundamentals of writing poetry, including poetic elements such as rhythm, imagery, diction, and tone and poetic forms such as blank verse, free verse, the ghazal, and the sonnet. Classes will focus on analysis of work from a range of cultures and periods as well as workshops of student writing. Intended for those who write regularly and wish to develop their skills.

CREA S-45a Section 2. Beginning Screenwriting (CRN: 31370)

Susan Steinberg PhD, Adjunct Faculty of the Visual and Media Arts Department, Emerson College

An introduction to the craft of screenwriting with an emphasis on story structure, character development, and the language of film. Students will study the films and screenplays of professional writers and be expected to make significant progress on screenplays of their own.

CREA S-45a Section 1. Beginning Screenwriting (CRN: 31568)

Susan Steinberg PhD, Adjunct Faculty of the Visual and Media Arts Department, Emerson College

An introduction to the craft of screenwriting with an emphasis on story structure, character development, and the language of film. Students will study the films and screenplays of professional writers and be expected to make significant progress on screenplays of their own.

CREA S-180 Section 2. Effective Business Communication (CRN: 30141)

Kalo Clarke MFA, Lecturer on English, Northeastern University

This course offers a practical approach to written and oral business communications. It emphasizes effective content, structure, tone, and visual format in letters, memos, and reports, and stresses organization, persuasiveness, and technique in short oral presentations. Each student is responsible for developing a written project upon which an oral presentation is based.

CREA S-180 Section 1. Effective Business Communication (CRN: 30890)

Kalo Clarke MFA, Lecturer on English, Northeastern University

This course offers a practical approach to written and oral business communications. It emphasizes effective content, structure, tone, and visual format in letters, memos, and reports, and stresses organization, persuasiveness, and technique in short oral presentations. Each student is responsible for developing a written project upon which an oral presentation is based.

CREA S-180 Section 3. Effective Business Communication (CRN: 31599)

Sheila M. Walsh PhD, Independent Scholar and Education Consultant

This course offers a practical approach to written and oral business communications. It emphasizes effective content, structure, tone, and visual format in letters, memos, and reports, and stresses organization, persuasiveness, and technique in short oral presentations. Each student is responsible for developing a written project upon which an oral presentation is based.

CREA S-80. Intermediate Fiction: Short Stories (CRN: 31685)

Eliezra H. Schaffzin MFA, Preceptor in Expository Writing, Harvard University

A workshop for writers with experience in writing fiction and with the workshop setting. Students will study techniques of the form by discussing their own work as well as assigned readings, and will be expected to produce two new stories by summer's end. The course assumes some familiarity with major fiction writers. Students should send a ten-page sample of their fiction to the instructor c/o Harvard Summer School Writing Program, 8 Prescott Street, Cambridge, MA 02138 USA before the term begins; alternately, they may bring a writing sample to the first class.

CREA S-175 Section 1. Legal Writing (CRN: 30138)

Rosemary Daly Esq. JD, , Chief of the Appellate Division, Suffolk County District Attorney's Office

This course is designed for law students, students considering law school, or writers who wish to improve their analytical writing. It is based on the assumption that good legal writing communicates well-considered ideas clearly, concisely, and accurately. Students use the elements of good writing to construct legal arguments, to argue from precedent and principle, and to use facts effectively. They draft a variety of basic legal documents that may include a case brief, a complaint, an answer, an opinion letter, a legal memorandum, and a statute. Course materials are based on contemporary social issues drawing on the areas of constitutional due process, criminal law, domestic relations law, and the right to privacy.

CREA S-175 Section 3. Legal Writing (CRN: 30139)

Gilbert Whitemore PhD, JD, Of Counsel, Stalter and Kennedy, LLP

This course is designed for law students, students considering law school, or writers who wish to improve their analytical writing. It is based on the assumption that good legal writing communicates well-considered ideas clearly, concisely, and accurately. Students use the elements of good writing to construct legal arguments, to argue from precedent and principle, and to use facts effectively. They draft a variety of basic legal documents that may include a case brief, a complaint, an answer, an opinion letter, a legal memorandum, and a statute. Course materials are based on contemporary social issues drawing on the areas of constitutional due process, criminal law, domestic relations law, and the right to privacy.

CREA S-175 Section 2. Legal Writing (CRN: 30140)

Gilbert Whitemore PhD, JD, Of Counsel, Stalter and Kennedy, LLP

This course is designed for law students, students considering law school, or writers who wish to improve their analytical writing. It is based on the assumption that good legal writing communicates well-considered ideas clearly, concisely, and accurately. Students use the elements of good writing to construct legal arguments, to argue from precedent and principle, and to use facts effectively. They draft a variety of basic legal documents that may include a case brief, a complaint, an answer, an opinion letter, a legal memorandum, and a statute. Course materials are based on contemporary social issues drawing on the areas of constitutional due process, criminal law, domestic relations law, and the right to privacy.

CREA S-170 Section 1. Principles of Editing (CRN: 30137)

Valerie Duff MA, MPhil, Adjunct Professor, Boston College

This course is designed to familiarize students with the roles of magazine and book editors. By using an editor's actual working materials--queries, manuscripts, contracts--we consider editors' myriad responsibilities to author, publisher, and reader. Students learn the production process, from acquisitions to line editing and copyediting, design, marketing, and publicity. Guest speakers--literary agents, authors, designers--visit the class to share their various areas of expertise.

CREA S-170 Section 2. Principles of Editing (CRN: 31641)

Don Share PhD, Curator of the George Edward Woodberry Poetry Room, Lamont Library, Harvard University

This course is designed to familiarize students with the roles of magazine and book editors. By using an editor's actual working materials--queries, manuscripts, contracts--we consider editors' myriad responsibilities to author, publisher, and reader. Students

learn the production process, from acquisitions to line editing and copyediting, design, marketing, and publicity. Guest speakers--literary agents, authors, designers--visit the class to share their various areas of expertise.

CREA S-112. Travel Writing (CRN: 31648)

Eric Weinberger BA, Preceptor in Expository Writing, Harvard University

A workshop for students interested in writing about travel to places near or far. Students will read and discuss selections from some of the great twentieth-century travel writers (Waugh, Theroux, Naipaul, Stark, Orwell, and others) as well as current travel writing published in newspapers and magazines. Regular, short writing assignments will prepare students for their final project: a substantial travel narrative of their own.

CREA S-165 Section 1. Writing Grant Proposals (CRN: 30136)

David Edward Berndt PhD, Associate Director of the Office of Sponsored Programs, Boston University

This course provides a thorough introduction to the planning and preparation of grant proposals. Topics include proposal planning; identifying and approaching a sponsor; planning, drafting, and revising the proposal document; and continued contacts with the sponsor after a proposal has been submitted. Each student develops a project for which support is sought, conducts extensive research on potential sponsors, and prepares a finished grant proposal to one of these sponsors. The course emphasizes the range of writing skills needed to make an effective case for one's project.

CREA S-165 Section 2. Writing Grant Proposals (CRN: 31236)

Frank White MPhil, Deputy Director, Communications, Alumni Affairs and Development, Harvard University

This course provides a thorough introduction to the planning and preparation of grant proposals. Topics include proposal planning; identifying and approaching a sponsor; planning, drafting, and revising the proposal document; and continued contacts with the sponsor after a proposal has been submitted. Each student develops a project for which support is sought, conducts extensive research on potential sponsors, and prepares a finished grant proposal to one of these sponsors. The course emphasizes the range of writing skills needed to make an effective case for one's project.

Computer Science

CSCI S-I. Communication Protocols and Internet Architectures (CRN: 31516)

Leonard Evenchik SM, Lecturer in Extension and Director of Distance and Innovative Education, Harvard University

This course provides a structured technical approach to the design, analysis, and implementation of Internet protocols and network architectures. We will study various protocols, including TCP/IP, WWW/HTTP, LAN protocols, and client/server protocols. The course will also discuss new areas of work, including voice and video over the Internet, network QoS, and enterprise network management.

CSCI S-T. Database Management Systems (CRN: 31206)

Peter Avila BS, Independent Systems Developer, Avila Systems

This course introduces the concepts of database design and the techniques for manipulating data structures via database management systems. Throughout the course students will work on a case study, preferably from their own backgrounds but provided for them if needed, to gain experience in mapping the information needs of an organization to a database. This will include a discussion of the different database software currently used by organizations and issues pertaining to their use such as concurrency, deadlock, recovery, distribution, security, and integrity. Students will acquire familiarity with the different database models with special emphasis on the relational model, as well as experience in using both the intuitive and normalization approaches for database modeling and design, and SQL and QBE for data manipulation. Also included is a discussion of client-server architecture and trends and future directions in database systems, including a discussion of the object-oriented model.

CSCI S-1. Elements of Computer Science Using Java (CRN: 31441)

Henry H. Leitner PhD, , Senior Lecturer on Computer Science and Assistant Dean of Continuing Education for Information Technology, Harvard University
David J. Malan AB

Designed for students with little or no previous background in computing, this course introduces problem-solving methods and algorithm development using the high-level programming language Java. Students will learn how to design, code, debug, and document programs using techniques of good programming style in both mainframe and microcomputer environments. Related topics include the basic aspects of recursion, parameter passing, file I/O, classes and objects, arrays, and functional decomposition to enable top-down design. Certain applications will be chosen for their relevance to more advanced coursework in computer science, while others will involve nonscientific and business-related areas. Some attention will be given to the theoretical and practical limitations of automatic computation.

CSCI S-H. Fundamentals of Website Development (CRN: 31515)

Robert Irie PhD, Research Engineer, Space and Naval Warfare Systems Command Center

This course will provide a foundation in several facets of establishing and maintaining a website. The first part of the course will cover the front-end aspects of web development: creating, designing, and publishing content on the web (HTML, CSS, Javascript). The second part of the course will cover the back-end aspects: installing a web server, using a content management system to organize and produce static and dynamic content (CGI, cookies, server-side scripting), and accessing a database for common website tasks (forms, user registration, shopping carts). This course will be significantly hands-on, and a major component will be a final project involving implementing a working website.

CSCI S-111. Intensive Introduction to Computer Science Using Java (CRN: 30035)

Henry H. Leitner PhD, , Senior Lecturer on Computer Science and Assistant Dean of Continuing Education for Information Technology, Harvard University
David G. Sullivan MS, Doctoral Candidate in Computer Science, Harvard University

Intended as a fast-paced first course in computer science for students who plan to take more advanced courses in the field or to work extensively with computers. Covers fundamental data structures (arrays, files, stacks, queues, linked lists, trees, graphs), control structures (including recursion), algorithms (sorting, searching, pattern matching), and their implementation in both UNIX and PC-based environments using the programming language Java. Key notions of object-oriented programming (OOP), including encapsulation, inheritance, and abstract data types, will be emphasized. Problem sets will require a minimum of 20 hours of programming each week. Graduate-credit students will be expected to learn to write some additional applications using the abstract windowing toolkit (AWT) and Swing. This course provides complete coverage of the syllabus for the Advanced Placement examination in computer science.

CSCI S-A. Internet and Integrated Productivity Software (CRN: 30030)

Stephan Kolitz PhD, Principal Member of the Technical Staff, Information Technology Directorate, The Charles Stark Draper Laboratory

This course provides a solid foundation in end-user productivity software for word processing, spreadsheet analysis and modeling, charting, database management, presentations, and appropriate applications for interacting with the Internet. Students learn the conceptual basis of each of these tools, how they are used for today's organizational management, the limitations of current technology, and possible future developments. The emphasis is on using software in an integrated manner to organize, analyze, and communicate information. Students should expect to spend 12 or more hours each week working on assignments in the microcomputer lab. The course demands a high level of commitment to keeping up with class assignments and to learning the use of the software tools.

CSCI S-K. Introduction to Creative New Media and the World Wide Web (CRN: 31439)

Jennifer Fuchel MFA, Assistant Professor of Graphic Design, School for the Arts, Suffolk University
Nita Sturiale MFA, Assistant Professor, Studio for Interrelated Media, Massachusetts College of Art

This introductory course is an intensive immersion into New Media production for beginning and intermediate students. The current state of "New Media" is the digital convergence of print, broadcast, audio, image, film, and the Internet. The course consists of lectures, demonstrations, visiting speakers, and computer lab experience. Particular attention is placed on balancing technical skills with individual content and experimental approaches. We will explore the evolution as well as the societal and cultural context of New Media and the Web. Along with weekly assignments, students will propose, design, and produce a web-based, multimedia final project using the tools of the industry. Core software includes Adobe PhotoShop, Macromedia Dreamweaver, and Flash. The course will also introduce digital video applications, QuickTimeVR, sound editing, and frontline developments in web applications.

CSCI S-L. Web Development Using XML (CRN: 31683)

David P. Heitmeyer AM, Manager of Web and Applications Development, Faculty of Arts and Sciences Computer Services, Harvard University

This course will focus on using XML technologies in website development. The first part of the course will cover fundamental XML technologies (XML, XPath, XSL, XSLT, XSLFO, XML Schemas, DTDs, and DOM) and open-source web-based XML publishing frameworks (Cocoon, AxKit). The second part of the course will cover specific markup languages (applications of XML) relevant to website development (XHTML, SVG, RDF, RSS, DocBook, and WML), with an emphasis on developing dynamic, data-driven sites that deliver content in a variety of media types (HTML, text, PDF, graphics) to a variety of devices (desktop and handheld computers, WAP-enabled cellular phones) and audiences. In addition, XML-based web services will be surveyed.

Dramatic Arts

DRAM S-13. Acting Workshop: Comedy (CRN: 31517)

William LeBow MA, Lecturer on Dramatic Arts and Resident Actor, American Repertory Theatre, Harvard University

A course developing the actor's approach to and playing of comedy and humor. Using characters and scenes from Shakespeare, Molière, Shaw, and a diverse group of contemporary writers from Christopher Durang to Steve Martin, the course will focus on the universality of comic technique and the specific demands of comic playing. The question of humor will also be explored with respect to dramatic situations and characters that are inherently serious. Scenes will be cast, developed, and presented by students and critiqued by members of the ART Company.

DRAM S-11. Acting Workshop: Developing a Character (CRN: 30039)

Jeremy Geidt Lecturer on Dramatic Arts, Emeritus and Senior Resident Actor, American Repertory Theatre, Harvard University

This acting course concentrates on developing a dramatic character both through external means--improvisation, mask work, and comedy techniques--and through characterizations using the plays of Chekhov.

DRAM S-12. Acting Workshop: Shakespeare (CRN: 30040)

Jeremy Geidt Lecturer on Dramatic Arts, Emeritus and Senior Resident Actor, American Repertory Theatre, Harvard University

The plays of Shakespeare as theater, with an American approach to verse speaking and characterization. Scenes from the plays will be rehearsed, and the verse will be interpreted in light of modern experience. Classwork will include individual coaching and presentation of rehearsed scenes from Shakespeare.

DRAM S-22. Directing (CRN: 30043)

Marcus Stern MFA, Lecturer on Dramatic Arts, American Repertory Theatre, Harvard University

A clear and practical set of steps for both the stage director and actor wanting to maximize their rehearsal process. Curriculum includes text analysis, finding the strongest story line, techniques for telling a story via staging, hands-on directing, working with actors, stronger character choices, design, mechanics of running rehearsals, and the profession as a business. All production work is geared toward concrete results in rehearsal and performance. The class accommodates all levels, from the novice with no experience to the career-oriented director.

DRAM S-10 Section 4. Introduction to Acting (CRN: 30036)

Bronia S. Wheeler MA, Actor, American Repertory Theatre, Harvard University

Exercises will concentrate on the development of observation, focus of attention, and the effective use of materials drawn from life. Work on acting scenes will include an approach to textual analysis, as well as practice in communication, personal involvements, and the accomplishment of stage tasks. Classwork will include extensive individual coaching and will culminate in a presentation of scenes developed in the course.

DRAM S-10 Section 2. Introduction to Acting (CRN: 30037)

Thomas Derrah MFA, Lecturer on Dramatic Arts and Resident Actor, American Repertory Theatre, Harvard University

Exercises will concentrate on the development of observation, focus of attention, and the effective use of materials drawn from life. Work on acting scenes will include an approach to textual analysis, as well as practice in communication, personal involvements, and the accomplishment of stage tasks. Classwork will include extensive individual coaching and will culminate in

a presentation of scenes developed in the course.

DRAM S-10 Section 1. Introduction to Acting (CRN: 30038)

Thomas Derrah MFA, Lecturer on Dramatic Arts and Resident Actor, American Repertory Theatre, Harvard University

Exercises will concentrate on the development of observation, focus of attention, and the effective use of materials drawn from life. Work on acting scenes will include an approach to textual analysis, as well as practice in communication, personal involvements, and the accomplishment of stage tasks. Classwork will include extensive individual coaching and will culminate in a presentation of scenes developed in the course.

DRAM S-10 Section 3. Introduction to Acting (CRN: 31650)

Marcus Stern MFA, Lecturer on Dramatic Arts, American Repertory Theatre, Harvard University

Exercises will concentrate on the development of observation, focus of attention, and the effective use of materials drawn from life. Work on acting scenes will include an approach to textual analysis, as well as practice in communication, personal involvements, and the accomplishment of stage tasks. Classwork will include extensive individual coaching and will culminate in a presentation of scenes developed in the course.

Economics

ECON S-1911. Capital Acquisition and the Investment Banking Process (CRN: 31601)

Assem Safieddine PhD, Assistant Professor of Finance, Michigan State University

This course highlights the capital acquisition process and the role investment banks play. Corporations raise capital by issuing different instruments. Each of the instruments sends different signals to market participants. This course evaluates these signals empirically by measuring the long run price performance of issuing firms. The topics covered include the initial public offering (IPO) process and the role investment banks play, IPO valuation, and IPO underpricing. Additional topics include seasoned equity offerings, private placements, motivation and incentives to issue such securities, cost of issuance and the factors that influence the choice between public versus private placement. A substantial portion of the course deals with the recent innovations in the equity market and the conduct of financial institutions in the equity market.

ECON S-1912. Crashes, Panics, Recovery, and Financial Strategy (CRN: 31661)

Assem Safieddine PhD, Assistant Professor of Finance, Michigan State University

Financial markets occasionally exhibit wide swings. Examples of this "excess volatility," often termed crashes, panics, and recovery, provide significant challenges to traditional economic paradigms which assume that individuals are "rational," meaning they make optimal decisions based on the information available to them, and an objective analysis of that information. The recent behavioral finance literature offers an alternative in which individuals make systematic mistakes in the way they process information and may not behave rationally. The course will cover the basic assumptions of behavioral finance and how this new field is used to explain several of the classical anomalies in financial empirical studies. A second module examines the implications of behavioral finance for corporate financial strategies. It will use Harvard Business School cases designed to provide an opportunity to (1) integrate the firm's financial decisions; (2) demonstrate the relationship between corporate finance and other fields of finance; (3) introduce the notion of financial strategy; and (4) show the relationship between finance and other management functions. The two modules are integrated to emphasize the relationship between behavioral finance and complex financial strategies.

ECON S-1941. Derivatives and Risk Management: Analytics and Applications (CRN: 31602)

Kishore K. Yalamanchili PhD, Vice President of Fixed Income, State Street Research

Lal C. Chugh PhD, Professor of Accounting and Finance, University of Massachusetts, Boston

This is a course on the analytics of financial derivatives and risk management. The course will examine the pricing of (and hedging with) options, futures, and swaps. It will review the necessary concepts from fixed income securities (such as Duration). This course will also cover Value at Risk (VaR), and the calculation of VaR both for a single security as well as for portfolios. The concept of insurance as a risk management tool is also discussed. The course includes discussion of practical applications of risk management tools.

ECON S-1316. Economic Development in India and East Asia (CRN: 31522)

Subramanian Swamy PhD, Associate of the Department of Economics, Harvard University

This course will review the modern economic development and reforms of the Indian economy, comparing it to Chinese and other East Asian economies. It will identify likely possible strategies and paths of economic development that are required in the context of globalization, privatization, and competition policy consistent with GATT clauses and WTO rules. Topics covered will also include: population growth, the concept of governance, differing approaches to ownership and poverty elimination, an analysis of why the Soviet-style command economy failed in India and China, the impact of information technology, and the future course of reforms. The course will review the quantitative performance of these economies, their respective strengths and weaknesses, and the likely scenario in these countries in the next two decades of the new millennium.

ECON S-196. Electronic Commerce Strategies (CRN: 31529)

Janis Lee Gogan DBA, Assistant Professor of Computer Information Systems, Bentley College

This course examines the strategic opportunities and challenges of exchanging goods and services over networks. Students will learn how companies plan electronic commerce initiatives and harness networked hardware and software capabilities to improve their relationships with customers, suppliers, and other business partners. Case studies and exercises will help students learn how to analyze e-commerce opportunities and risks, and to plan and implement effective e-commerce strategies for both established firms and startups in a variety of industries. Consideration will be given to regulatory, ethical, and societal implications of specific strategic choices.

ECON S-1900 Section 1. Financial Accounting (CRN: 30071)

Richard A. Rivers DBA, Professor, School of Accountancy, Southern Illinois University, Carbondale

This course is an introduction to financial accounting, its concepts, and the techniques of recording, summarizing, and reporting the flow of financial information through the entity concerned. It offers an understanding of the information flow process and the necessary techniques for analysis and evaluation of the firm's potential in light of historical data.

ECON S-1900 Section 2. Financial Accounting (CRN: 30072)

Richard A. Rivers DBA, Professor, School of Accountancy, Southern Illinois University, Carbondale

This course is an introduction to financial accounting, its concepts, and the techniques of recording, summarizing, and reporting the flow of financial information through the entity concerned. It offers an understanding of the information flow process and the necessary techniques for analysis and evaluation of the firm's potential in light of historical data.

ECON S-1560. International Business (CRN: 30069)

Malcolm J. Matthews MSc, Director, TAL Apparel Ltd., Director, Singer NV

Lal C. Chugh PhD, Professor of Accounting and Finance, University of Massachusetts, Boston

This course focuses on the environment of international business. It considers the activities of multinational firms, and government policies toward them, drawing policy implications for the management of these enterprises. The course surveys theories of international trade, foreign direct investment, international financial institutions, differences in political economy and culture, barriers to trade, foreign exchange, business-government relations, and the strategic alternatives available to companies operating in the global economy. It goes on to consider strategic options for the major functions of marketing, manufacturing, materials management, research and development, human resources, and finance, relating them to the firm's overall global strategy.

ECON S-1562. International Business and Global Economic Systems (CRN: 31642)

Lal C. Chugh PhD, Professor of Accounting and Finance, University of Massachusetts, Boston

The course focuses on the changing international trading and financial systems, and their impact on the conduct of international business. The course includes analyses of countries, integration of regions, the World Trade Organization, currency systems and crises, and international financial markets. Effects of changes in the international financial and trading systems on the strategies and available resources for international business are also discussed. The course emphasizes case analyses and active class discussion.

ECON S-1476. International Corporate Governance (CRN: 31388)

Charles A. Moran JD, , Assistant Professor of Business and Finance, Bucknell University and President, Strategic Financial Advisors

This course will examine international corporate governance topics that collectively are termed Agency Theory in modern finance, as applied to the corporation, with focus on the separation of ownership and control and related issues. The formal and informal contracts that bind together shareholders, bondholders, directors, managers, employees, suppliers, customers, and communities will be explored. The collaborative efforts as well as the potential conflicts of interests of these various

constituencies will be analyzed in the context of a changing legislative and regulatory environment. This will enable us to evaluate the effectiveness of how corporate objectives are determined and achieved in the US, Great Britain, Germany, and Japan. Selected cases and readings will illustrate research findings and highlight key issues in international corporate governance.

ECON S-1536. International Trade and Globalization (CRN: 31674)

Aryeh Blumberg PhD, , Associate of the Department of Economics, Harvard University, and Professor of Economics and Finance, Montclair State University
Can Erbil MS, PhD, Assistant Professor of Economics, Brandeis University

The course begins by focusing on the fundamental principles that underlie international trade: the gains from trade and comparative advantage. It covers the Ricardian trade model, the Heckscher-Ohlin model, factor price equalization, and more recent developments in international trade, such as distortions and trade policy, openness indices, trade and growth, customs unions, and global integration. The course uses data sources that provide an insight into past and recent international trade flows and the increasing trend of globalization. Emphasis will be placed on empirical evidence, testing theory, and a brief historical review of how globalization evolved. Some policy guidelines from international organizations, such as the World Trade Organization (WTO), the International Monetary Fund (IMF), and the World Bank, toward openness and globalization are used as real life examples.

ECON S-192. Introduction to Capital Markets and Investments (CRN: 30060)

James E. Owers PhD, , Associate, Department of Economics, Harvard University, and Professor of Finance, College of Business Administration, Georgia State University, Atlanta

Students are introduced to investment analysis, including the functioning of capital markets, changes in markets, and analysis and tests of the efficient market hypothesis; portfolio theory; risk/return paradigms; and valuation theory applied to the aggregate market, industries, and firms. Topics covered include the analysis and interpretation of financial statements, and an introduction to options, futures, and derivative securities.

ECON S-190. Introduction to Managerial Finance (CRN: 30298)

James E. Owers PhD, , Associate, Department of Economics, Harvard University, and Professor of Finance, College of Business Administration, Georgia State University, Atlanta

Students examine the practices and perspectives of financial management, with reference to the foundations of modern finance: economics, managerial organization, and accounting. This course builds analytical and quantitative skills in several topic areas: financial condition and performance, financial planning and control, working capital management, long-term asset decisions, and financial and capital structure. It introduces the processes of financial engineering, innovation, and restructuring. The roles of Economic Value Added and the Balanced Scorecard in developing managerial strategies and incentive structures are also discussed.

ECON S-1012. Macroeconomic Theory (CRN: 30345)

Daniel Barbezat PhD, Associate Professor of Economics, Amherst College

In this course we will build models of national income determination, unemployment, inflation, and economic growth. In addition to looking at the domestic economy, we will develop models of the macroeconomic effects of international trade. These models will be used to analyze US fiscal and monetary policies and to sort out the controversies among the Monetarists, the New Keynesians, and New Classical.

ECON S-1901. Managerial Accounting (CRN: 30073)

Lynn W. Marples MBA, Lecturer on Accounting, Northeastern University

This course introduces the principles and methods of data collection and presentation for planning and control, performance evaluation, and management decision making. It emphasizes product costing (both traditional and activity based), cost-volume profit analysis, operating and capital budgeting, evaluation of business operating segments, transfer pricing, and relevant costs for

decision making.

ECON S-1010. Microeconomic Theory (CRN: 30344)

Robert Neugeboren PhD, Lecturer on Economics, Harvard University

The focus of this course is on the optimizing behavior of individual households and firms and the coordination of these individual decisions through markets. Topics will include the theory of the consumer, the theory of the firm, decisions involving time and risk, perfect competition, imperfect competition, general equilibrium, and welfare economics.

ECON S-1452. Money, Financial Institutions, and Markets (CRN: 31138)

Joshua D. Rauh BA, Doctoral Candidate in Economics, Massachusetts Institute of Technology
James E. Owers PhD, Associate, Department of Economics, Harvard University, and Professor of Finance, College of Business Administration, Georgia State University, Atlanta

This course examines the agents, instruments, and institutions that make up the financial system of the modern economy. Standard tools of financial analysis are introduced and applied to issues in the operation and regulation of financial and non-financial corporations and the ways they finance their investment activities. The course will also analyze the interaction among financial institutions, markets, and the Federal Reserve's conduct of monetary policy.

ECON S-1620. Organizations, Management Behavior, and Economics (CRN: 31390)

Charles A. Moran JD, Assistant Professor of Business and Finance, Bucknell University and President, Strategic Financial Advisors

This course examines topics that can be collectively termed contracts and business organization. The problem of economic organization and the problem of social cost are considered along with efficient incentives (contracts and ownership), design and dynamics of organizations, motivation (contracts, information, and incentives) and employment incentives (contracts, compensation, and careers). The discipline of economics on organizations and management will be explored using selected cases and readings to illustrate research findings and highlight key issues, including international dimensions. The evolution of corporate structure is considered as a basis for development of a model for the future relationship of economics, organizations, and management behavior.

ECON S-10ab. Principles of Economics (CRN: 30057)

Nadav Halevi PhD, Arun and Michael Chilowich Professor of International Trade, Emeritus, The Hebrew University of Jerusalem

This course covers both micro- and macroeconomics. The subjects studied include the workings of the market mechanism--how supply and demand determine the quantities and prices of goods and factors of production, international trade, and how quantities and prices are affected by government intervention. The macroeconomics subjects included are: the determinants of economic growth, financial institutions, short-run fluctuations in output and employment, inflation, macroeconomics of the open economy, and the role of government policy.

ECON S-10b. Principles of Economics: Macroeconomics (CRN: 30058)

Daniel Barbezat PhD, Associate Professor of Economics, Amherst College

This introduction to macroeconomic theory and policy emphasizes the overall performance of the national economy. Topics will include economic growth, financial markets, and the causes and consequences of short-term movements in gross domestic product, unemployment, interest rates, inflation, the budget deficit, and the trade deficit. The course also will cover key policy-making institutions, such as the Federal Reserve, and controversies over the proper role of government in stabilizing the economy.

ECON S-10a. Principles of Economics: Microeconomics (CRN: 30056)

Hossein S. Kazemi PhD, Associate Professor of Economics, Stonehill College

This course offers an introduction to the market system, emphasizing economic interactions among individuals, business firms, and government. Topics will include supply and demand, economic decision making, social efficiency, perfect and imperfect competition, labor markets, capital markets, and market failures. Issues such as the environment, taxation, and income distribution also will be addressed. Equivalent to the first half of ECON S-10ab.

ECON S-110. Quantitative Methods in Economics and Business (CRN: 30852)

Subramanian Swamy PhD, Associate of the Department of Economics, Harvard University

This course presents a thorough introductory treatment of the main mathematical tools used in modern economics and business. It covers a variety of topics, including linear algebra and calculus, especially unconstrained and constrained optimization. Explanations of mathematical methods will be illustrated by practical applications to problems in economics and business. This course is particularly recommended for students interested in advanced economics and finance courses and graduate business study.

ECON S-1050. Strategy, Conflict, and Cooperation (CRN: 31594)

Robert Neugeboren PhD, Lecturer on Economics, Harvard University

An introduction to "the strategic way of thinking" and a primer on game theory with applications to economics and other social sciences. Topics include the prisoner's dilemma and the arms race; dominance reasoning and the minimax theorem; mixed strategies and Nash equilibrium; bargaining and collective action; threats, promises, and negotiated games; and the evolution of cooperation. No special mathematical preparation required.

Education

EDUC S-037. Financial Management of Nonprofit Organizations (CRN: 31667)

John Harold Lindsell EdD, Headmaster, Saint James School

Kent John Chabotar PhD, Professor of Political Science, Guilford College, President, Guilford College

This introductory course surveys the financial management practices and problems of nonprofit organizations, with particular emphasis on schools and colleges, government agencies, and museums. Specific topics will include strategic planning, fund accounting, program budgeting, and financial analysis. The course aims at making students better managers and consumers of financial information rather than budget officers or accountants. The course has no prerequisites, and students who dislike "number crunching" are especially welcomed.

English and American Literature and Language

ENGL S-163. Contemporary American Drama (CRN: 31646)

Robert Scanlan PhD, Visiting Lecturer, English and American Language and Literature, Harvard University

Reading, discussion, and analysis of contemporary American plays and playwrights and their immediate predecessors of the past half-century. Our reading list represents styles from social realism to avant-garde performance events, the theater of images, feminist performance, and other challenges to conventional theatrical forms. Attention to the social, cultural, and political forces that shaped major aspects of American playwriting. Playwrights include Tony Kushner, David Mamet, Suzan-Lori Parks, David Rabe, John Guare, Paula Vogel, Eve Ensler, August Wilson, and their predecessors, Arthur Miller, Eugene O'Neill, Clifford Odets, Lorraine Hansberry, Tennessee Williams, and others.

ENGL S-187. Early American Bestsellers (CRN: 31645)

Grantland S. Rice PhD, Director, Corporate and Foundation Relations, Department of Development, Harvard Law School

This course will explore the emergence of popular fiction in America before the Civil War. Focusing on the historical and sociological conditions that gave birth to such popular genres as the captivity narrative, the autobiography, the epistolary novel, the seduction plot, the literary sketch, the romance, and the exposé, this course will examine prose works from settlement to the Civil War. Special consideration will be given to issues of authorship, intellectual property, and copyright law. Authors covered will include Mary Rowlandson, Benjamin Franklin, Michel Guillaume Saint Jean de Cr#coeur, Charles Brockden Brown, Hannah Foster, Susanna Rowson, Washington Irving, George Lippard, James Fenimore Cooper, Harriet Beecher Stowe, Harriet Wilson, Nathaniel Hawthorne, and Herman Melville.

ENGL S-145. Romanticism (CRN: 31573)

William Flesch PhD, Associate Professor of English, Brandeis University

English romanticism sets the tone for most of the English language literature of the past two centuries. In this class we will survey the six great romantic poets--Blake, Wordsworth, Coleridge, Byron, Percy Shelley, and Keats--as well as three novelists who formed or responded to the movement: Austen, Mary Shelley, and Emily Bront#

ENGL S-124e. Shakespeare (CRN: 31572)

William Flesch PhD, Associate Professor of English, Brandeis University

This course is a survey of eight plays by England's greatest playwright and poet. We will cover all genres (comedy, tragedy, history, and romance), but will concentrate on the tragedies, culminating with King Lear. We will be thinking about Shakespeare as both writer and theatrical impresario, concentrating on his characters and his language.

ENGL S-141. The Enlightenment Invention of the Modern Self (CRN: 31376)

Leo Damrosch PhD, Ernest Bernbaum Professor of Literature, Harvard University

During the eighteenth century, as traditional ways of interpreting the world came under energetic attack, writers in Britain, France, and Germany brilliantly explored the ways in which the self can be seen as a product of social conditioning, fragmentary and artificial, and yet also as a fundamental core of stable personality. In addition to short selections from poets, biographers, and philosophers, the course will focus on memorable narrative works including Boswell's London Journal, Rousseau's Confessions, Diderot's Jacques the Fatalist, Laclos' Liaisons Dangereuses, and Benjamin Franklin's Autobiography. A final section will consider the anti-Enlightenment critique of the romantic poet Blake.

ENGL S-185. Wit and Humor (CRN: 31614)

Leo Damrosch PhD, Ernest Bernbaum Professor of Literature, Harvard University

Emphasizing wit and humor rather than "comedy" as classically understood, the course will consider selected texts and films (including, for example, Mark Twain, Oscar Wilde, Robert Benchley, Dave Barry, Woody Allen, and Monty Python) and pay particular attention to theoretical writings by psychologists, sociologists, and critics who have tried to explain why people laugh, want to laugh, and pay to be made to laugh.

Expository Writing

EXPO S-C Section 1. Cross-Cultural Expository Writing (CRN: 31344)

Paul A. Thur MA, Learning Skills Specialist, College of General Studies, Boston University

Designed primarily for students whose first language is not English, this course offers practice in expository writing, providing work beyond advanced IEL courses for students who need additional preparation for rigorous college writing courses. Special attention will be paid to ways in which English writing and grammar differ from those of other languages, but primary emphasis will be on preparation for writing strong academic essays.

EXPO S-C Section 2. Cross-Cultural Expository Writing (CRN: 31566)

Paul A. Thur MA, Learning Skills Specialist, College of General Studies, Boston University

Designed primarily for students whose first language is not English, this course offers practice in expository writing, providing work beyond advanced IEL courses for students who need additional preparation for rigorous college writing courses. Special attention will be paid to ways in which English writing and grammar differ from those of other languages, but primary emphasis will be on preparation for writing strong academic essays.

EXPO S-20e Section 3. The Essay (CRN: 31287)

Mark Rennella PhD, Lecturer, Committee on Degrees in History and Literature, Harvard University

Students read essays that highlight this literary form's variety and richness. They write analytical essays that focus on technique and the way other writers use language. Through sequenced assignments, students learn to transform their own experiences, observations, and thoughts into evidence.

EXPO S-20e Section 4. The Essay (CRN: 31288)

William D. Evans

Students read essays that highlight this literary form's variety and richness. They write analytical essays that focus on technique and the way other writers use language. Through sequenced assignments, students learn to transform their own experiences, observations, and thoughts into evidence.

EXPO S-20e Section 2. The Essay (CRN: 31290)

Erika Dreifus PhD, Lecturer on History and Literature, Committee on Degrees in History and Literature, Harvard University

Students read essays that highlight this literary form's variety and richness. They write analytical essays that focus on technique and the way other writers use language. Through sequenced assignments, students learn to transform their own experiences, observations, and thoughts into evidence.

EXPO S-20e Section 1. The Essay (CRN: 31292)

Thomas Akbari MA, Preceptor in Expository Writing, Harvard University

Students read essays that highlight this literary form's variety and richness. They write analytical essays that focus on technique and the way other writers use language. Through sequenced assignments, students learn to transform their own experiences, observations, and thoughts into evidence.

EXPO S-20g Section 3. Writing/Art, Visual Media (CRN: 31676)

Katherine Milligan PhD, Preceptor in Expository Writing, Harvard University

Students look at works of art and read texts about the philosophy and history of visual culture. Class sessions focus on methods for analyzing art, film, and other visual media, and on strategies for reading such texts closely. Students then learn to write critical essays that develop coherent arguments about this material.

EXPO S-20g Section 4. Writing/Art, Visual Media (CRN: 31677)

Justin Wolff PhD, Preceptor in Expository Writing, Harvard University

Students look at works of art and read texts about the philosophy and history of visual culture. Class sessions focus on methods for analyzing art, film, and other visual media, and on strategies for reading such texts closely. Students then learn to write critical essays that develop coherent arguments about this material.

EXPO S-20g Section 1. Writing About Art and Visual Media (CRN: 31678)

Daniel Bosch MA, Preceptor in Expository Writing, Harvard University

Students look at works of art and read texts about the philosophy and history of visual culture. Class sessions focus on methods for analyzing art, film, and other visual media, and on strategies for reading such texts closely. Students then learn to write critical essays that develop coherent arguments about this material.

EXPO S-20g Section 2. Writing About Art and Visual Media (CRN: 31684)

Luciana Herman PhD, Preceptor in Expository Writing, Harvard University

Students look at works of art and read texts about the philosophy and history of visual culture. Class sessions focus on methods for analyzing art, film, and other visual media, and on strategies for reading such texts closely. Students then learn to write critical essays that develop coherent arguments about this material.

EXPO S-20a Section 3. Writing and Literature (CRN: 31278)

Thomas A. Underwood PhD, Preceptor in Expository Writing, Harvard University

Students read literary works and write focused, persuasive essays on literary topics. Discussions encourage students to read closely and think clearly in order to write more effectively. Students learn to write essays that demonstrate their competence as critics.

EXPO S-20a Section 4. Writing and Literature (CRN: 31279)

Thomas A. Underwood PhD, Preceptor in Expository Writing, Harvard University

Students read literary works and write focused, persuasive essays on literary topics. Discussions encourage students to read closely and think clearly in order to write more effectively. Students learn to write essays that demonstrate their competence as critics.

EXPO S-20a Section 1. Writing and Literature (CRN: 31280)

Christine Edwards Allred PhD, Lecturer, History and Literature, Harvard University, Lecturer, Expository Writing, Harvard University

Students read literary works and write focused, persuasive essays on literary topics. Discussions encourage students to read closely and think clearly in order to write more effectively. Students learn to write essays that demonstrate their competence as critics.

EXPO S-20a Section 2. Writing and Literature (CRN: 31639)

Suzanne T. Lane PhD, Assistant Professor of English, California State University

Students read literary works and write focused, persuasive essays on literary topics. Discussions encourage students to read closely and think clearly in order to write more effectively. Students learn to write essays that demonstrate their competence as critics.

Folklore and Mythology

FOLK S-108. Witchcraft (CRN: 31508)

Stephen A. Mitchell PhD, Professor of Scandinavian and Folklore, Harvard University

Examines witchcraft from cross-cultural, historical, literary, and folkloric points of view. Considers witches and witchcraft in their non-Western settings, but focuses on events in Europe and America, tracing the development from the relatively mild reaction of the early Middle Ages to the "witch crazes" of the early modern era. Neopaganism is also reviewed, as are such issues as the "Satanic panic" and "cult cops."

French

FREN S-Aab. Beginning French (CRN: 31368)

Maxime Blanchard MA, PhD, Teaching Fellow in Romance Languages and Literatures, Harvard University

This course is designed for students with little or no knowledge of French. Initial emphasis will be on basic oral expression with additional concentration on developing reading and writing skills. Attention also will be given to the reading of French prose. There will be supplementary practice in the language laboratory.

FREN S-Ax. French for Reading Knowledge (CRN: 31123)

Timothy J. Tomasik MA, Teaching Fellow in Romance Languages and Literatures, Harvard University

Designed for students with an excellent command of English, this course will enable students to read and translate modern French prose with a dictionary. This is primarily for graduate students and advanced undergraduates seeking reading knowledge of French for research purposes. Some previous background in French helpful but not necessary.

FREN S-27. French Oral Survival (CRN: 31124)

Wayne Ishikawa PhD, Lecturer in Extension, Harvard University

Conducted in French, this course emphasizes speaking and understanding spoken French in a cultural context. It develops oral facility in French and the ability to understand authentic conversational French by focusing on communication strategies and conversational skills.

FREN S-Cab. Intermediate French (CRN: 30212)

Valerie Chanlot Maitrise, Visiting Fellow in Romance Languages and Literatures, Harvard University

This is an intensive course designed to develop listening, speaking, reading, and writing skills. It is conducted in French and is a thorough review of French grammar and pronunciation combined with readings focusing on aspects of French and Francophone literature and culture through short stories, videos, and films.

FREN S-70b. Introduction to the Nineteenth- and Twentieth-Century French Novel: The Heroine's Text (CRN: 31526)

Alice A. Jardine PhD, Professor of Romance Languages and Literatures, Harvard University

Important novels from the nineteenth and twentieth centuries are examined in the light of recent literary and cultural criticism, with special attention to the question of gender and genre. Authors will include Constant, Balzac, Sand, Flaubert, Villiers de l'Isle Adam, Colette, Beauvoir, Robbe-Grillet, Duras, and Beckett. The course is conducted in French.

Germanic Languages and Literatures

GERM S-Bab. Beginning German (CRN: 31316)

Maria Luisa Arroyo MA, Teaching Fellow in German, Harvard University

This eight-week intensive course provides a thorough introduction to German language and culture, encompassing all four language skills: speaking, listening, reading, and writing. Class time is focused on developing oral proficiency; by the end of the course, students should be able to engage in everyday conversation with native speakers. Language instruction is supplemented by literary and cultural readings as well as films.

GERM S-R. Introduction to German for Reading Knowledge (CRN: 31302)

Charles P. Lutcavage PhD, Senior Preceptor in German, Harvard University

This introduction to German expository prose is designed primarily for students who wish to acquire a reading knowledge of the language for research purposes. Texts from a variety of fields will be used. No previous knowledge of German is assumed.

GERM S-23. The Harvard Summer Program in Munich, Germany (CRN: 31660)

Peter J. Burgard PhD, Professor of German, Harvard University

See Study Abroad Programs.

Mathematics Review

GMAT S-1. Mathematics Review for the GMAT and GRE (CRN: 30257)

Instructor to be announced

This course reviews the mathematics segments of the business school and graduate school aptitude tests, including a review of algebra, geometry, word problems, data sufficiency, and graph interpretation. Class sessions include both lectures and problem solving, and they offer strategies for solving typical exam problems. There will be supplemental homework assignments. Note: room and board is not available for students taking only this course.

Government

GOVT S-1900. American Foreign Policy (CRN: 30164)

Jeremy Pressman PhD, Post-Doctoral Fellow, International Security Program, Belfer Center for Science and International Affairs, Kennedy School of Government, Harvard University

This course covers major trends, problems, and decisions in American foreign policy from 1945 to the present: the origins and demise of the cold war; evolution of US national security policy; military intervention during and after the cold war; human rights issues and democracy; US policies toward Europe, East Asia, Africa, and Latin America; and post-cold war challenges and responses. Special topics include the Korean, Vietnam, Gulf, Balkans, and Afghanistan Wars, and US relations with Japan and China.

GOVT S-1505. Building the Activist State: US Public Policy since 1960 (CRN: 31597)

Paul Pierson PhD, Professor of Government, Harvard University

The role of the federal government in American society is now highly controversial. These contemporary conflicts over domestic policy play out against the backdrop of a dramatic expansion of government activity that occurred over the past four decades. This course examines the causes and consequences of the gradual growth of activist government, focusing on three domains: the expansion of social spending programs such as Medicare and Social Security, the emergence of "new" social regulation in areas such as the environment and consumer protection, and the expansion of protections for particular groups (often termed the "rights revolution").

GOVT S-1510. Environmental Politics (CRN: 31527)

Stacy D. VanDeveer PhD, Assistant Professor of Political Science, University of New Hampshire

The course explores numerous environmental issues and policymaking themes in domestic and international environmental politics. Issues and themes covered include pollution control in the US; US environmental foreign policies; global climate changes; environmental justice; sustainable development; marine protection efforts; and the roles of nongovernmental organizations, scientific and technical advisors, and policymakers.

GOVT S-1130. Intellectual Property (CRN: 31596)

Allan A. Ryan, Jr. JD, Director of Intellectual Property, Harvard Business School Publishing

This course examines the concept of intellectual property and the legal and social means that have developed over time to encourage and control it. We will consider copyright, patent and trademark regimes, together with related areas such as licensing and trade secrets. We will pay particular attention to the challenges posed by the digital environment, such as Napster, MP3 technology, and digital databases, and to the emerging international law of intellectual property.

GOVT S-30. Introduction to American Government (CRN: 30153)

Mark Silverstein PhD, Professor of Political Science, Boston University

A general introduction that provides an analysis of the institutional framework of American politics and the relationship between political processes and national institutions.

GOVT S-40. Introduction to International Relations (CRN: 30155)

John F. Garofano PhD, Senior Fellow, International Security Program, Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University

This course focuses on the essential characteristics and patterns of international relations, including: the causes of war and

pathways to peace; new threats to international security; the role of international organizations; and globalization. Special topics include the causes of major wars and of ethnic conflicts, humanitarian intervention, weapons of mass destruction, international terrorism, and the future of stability in East Asia.

GOVT S-10. Introduction to Political Philosophy (CRN: 30154)

James Schmidt PhD, Professor of Political Science and History, Boston University

An introduction to the central questions of political philosophy: What makes authority legitimate? What liberties can citizens claim? What does justice require? Readings will include both classic authors such as Plato, Aristotle, Thomas Hobbes, John Locke, David Hume, Thomas Jefferson, James Madison, and John Stuart Mill, as well as work by present-day political philosophers and legal theorists that illustrates differing ways of thinking about such issues as free speech, privacy rights, and equality of opportunity. No philosophical background is presumed.

GOVT S-1061. Modern Political Philosophy (CRN: 31656)

Peter G. Stillman PhD, Professor of Political Science, Vassar College

A study of selected modern political thinkers, such as Machiavelli, Locke, Rousseau, Hegel, Marx, Arendt, and Foucault. Among the themes stressed are sovereignty, the development and varieties of individualism and individuality, differing theories of community, and the relation of the individual and the state.

GOVT S-1240. Politics and Social Policy in Post-Communist Russia (CRN: 31306)

David E. Powell PhD, , Lecturer on Health Policy Management and Fellow of the Kathryn W. and Shelby Cullom Davis Center for Russian Research, Harvard University

The course deals with political conflict, policy-making, and social policy in post-Soviet Russia. We will briefly examine the major developments and institutions of the Soviet era, but our focus will be on the period since Boris Yeltsin and Vladimir Putin came to power. We will devote particular emphasis to five issues: (1) attempts to transform the political system from one based on authoritarianism to one based on democracy; (2) efforts to shift from a centrally planned economy to one based on market forces; (3) relations between Russians and non-Russians (including the Chechens) in Russia; (4) the role of the Federal Security Service (the successor to the KGB) and the military; and (5) social questions such as the position of women, the crisis in public health (including an examination of alcoholism, drug abuse, AIDS, and environmental deterioration), and the state of organized religion. We will look not only at the factors promoting change, but also at those which impede it.

GOVT S-1248. Theorizing Ukraine: Politics, Theory, and Political Theory (CRN: 31654)

Alexander J. Motyl PhD, Professor of Political Science, Rutgers University

A historical and comparative examination of social science approaches to conceptualizing and theorizing politics and political developments in Ukraine. The course investigates concepts and theories of the state, revolution, nation, nationalism, empire, elites, socialism, totalitarianism, transition, civil society, modernization, political culture, and democracy. Both concepts and theories will be discussed in relation to one another, in light of modern Ukrainian history, and with reference to other countries.

GOVT S-1461. Urban Politics and Government (CRN: 30161)

Arnold M. Howitt PhD, Executive Director, A. Alfred Taubman Center for State and Local Government, John F. Kennedy School of Government, Harvard University

This course will survey politics and government in American cities. It will analyze the structure and functioning of government institutions; the roles of political parties; the mobilization of economic, racial, ethnic, and neighborhood interests; forms of political participation, such as voting, citizen participation, and riots; and patterns of political power and decision making. The course also will consider the city's web of relationships with federal, state, and special-purpose regional institutions, and it will examine selected policy areas such as physical and economic development.

GOVT S-1732. War Crimes, Genocide, and Justice (CRN: 31212)

Allan A. Ryan, Jr. JD, Director of Intellectual Property, Harvard Business School Publishing

This course examines the legal regulation of warfare from medieval times to the present, including the historical evolution of the law of war; war crimes and crimes against humanity, and their punishment; the Geneva conventions, and the concept of genocide in the twentieth century. We will examine the trial of Nazi war criminals at Nuremberg, the 1968 massacre at My Lai in Vietnam, the 1994 genocide in Rwanda, the International Criminal Court, and issues raised by the events of September 11, 2001. The focus is on broad concepts of law and justice in warfare and genocide. No prior knowledge of legal or military systems is required.

GOVT S-1180. Western European Politics (CRN: 30157)

Aline M. Kuntz PhD, Associate Professor of Political Science, University of New Hampshire

This course offers an analysis of the institutions, political processes, and social movements in contemporary Western Europe. Although the course will focus on Britain, Germany, France, and Italy, attention also will be given to smaller states and to the regional issues facing Western Europe in the new century.

Greek

GREK S-Aab. Beginning Greek (CRN: 31228)

Instructor to be announced

Designed for students with little or no previous ancient Greek who are seriously interested in making quick progress in the language, this course covers all basic grammar and offers considerable practice in reading prose. Prospective students should learn the alphabet before the first meeting. They may contact the instructor through the Summer School Dean's Office to obtain a copy in advance.

GREK S-104. The World of Herodotos (CRN: 31665)

Albert M. Henrichs DPhil, Eliot Professor of Greek Literature, Harvard University

Storyteller, traveler and ethnographer, the "father of history," Herodotos surveyed the multiethnic Persian Empire and preserved the memory of the Persian Wars. This course is an introduction to Herodotos's dialect and style, concept of history, authorial voice and narrative strategies, and his representation of non-Greek cultures. Selections in Greek from Books I-IV and VII-VIII; the entire Histories read in English.

History of Art and Architecture

HARC S-183. The Architecture of Boston (CRN: 31320)

Charissa N. Terranova MA, MA, Institut français d'Architecture, Paris, France, Franco-American Fullbright Commission, Paris, France

This course examines Boston's architecture and urban design from the city's founding to the present. Through lectures, readings, and walking tours, it explores the works of major designers such as Charles Bulfinch, H. H. Richardson, Frederick Law Olmsted, Charles McKim, Walter Gropius, I. M. Pei, and Philip Johnson. Together we will investigate the development of Boston's urban landscape, its architecture, and neighborhoods: from an archipelago of early American settlement to major urban node within the contemporary eastern seaboard's megalopolis. The course focuses on the social and economic context of Boston's architecture and urban design, and the city's contributions to American architecture. Other themes will include the emergence of the architectural profession, the use of materials and technology, the domestication of nature through procedures of land-fill and in-fill, and the making of an artificial ground datum.

History

HIST S-1512. Modern Ukraine (CRN: 31590)

John-Paul Himka PhD, Professor of History and Classics, University of Alberta

The course explores the emergence of the "Ukrainian idea" at the turn of the nineteenth century, its thickening in a literary renaissance and political discussions, its transplantation and transformation in Galicia, and its fate in the international crisis of 1914-20. Then the course examines the Soviet Ukrainian state in the 1920s and 1930s, the Ukrainians living outside it in "Central Europe," the course and results of World War II, the crystallization of Soviet Ukrainian nationhood, and the transformation of the Ukrainian Soviet Socialist Republic into independent Ukraine.

HIST S-1855. Screening History: Film in Postwar Japan and Post-Mao China (CRN: 31557)

Charles W. Hayford PhD, Visiting Professor of History, Northwestern University

Movies tell stories and sell tickets; they also afford insight into how societies publicly perceive, articulate, and grapple with historical situations. Japanese films after 1945 and Chinese films of the 1980s and 1990s reflected debates on history and memory as these societies struggled to recover from catastrophe and to morally comprehend social responsibilities.

HIST S-1607. The American Revolution (CRN: 31487)

Sally E. Hadden PhD, Associate Professor of History and Law, Florida State University

This course examines thematically the major issues confronting Americans in the late seventeenth and eighteenth centuries prior to the American Revolution, as well as the main events and major figures of the Revolution itself. By exploring social, cultural, political, and economic developments in America's revolutionary period and the ultimate break that occurred between Americans and their British cousins, we gain a greater understanding of the formative event in our nation's history.

HIST S-1620. The Old South (CRN: 31637)

Sally E. Hadden PhD, Associate Professor of History and Law, Florida State University

This course examines southern history (focusing upon the period from 1800 to 1861) including myths and facts about southern society and culture, as well as slavery and southern distinctiveness. Attention will be paid to political events that ultimately created a short-lived southern nation and triggered the Civil War in 1861.

HIST S-1851. The Samurai (CRN: 31514)

Harold Bolitho PhD, Professor of Japanese History, Harvard University

An analysis of the rise and fall of Japan's warrior class, and the mythology associated with it. Its emergence at the beginning of Japanese history will be examined, together with its development through civil war, bureaucratic stagnation, and late nineteenth-century dissolution, concluding with a scrutiny of its romanticized legacy.

HIST S-1662. The United States in History, 1889 to the Present (CRN: 30175)

Lori J. Kenschaft PhD, Lecturer on Administration, Policy, and Social Planning, Harvard Graduate School of Education

The goal of this course is to help students understand the events, trends, and experiences that shaped the United States throughout the twentieth century and into the twenty-first: industrialization, immigration, consumer capitalism, progressivism, the New Deal, hot wars and cold war, feminism, the civil rights movement, globalization, and the swinging tides of political liberalism and conservatism.

HIST S-51c. Western Civilization, 1500 to the Present (CRN: 31109)

Donald Ostrowski PhD, Lecturer in Extension, Harvard University

This course focuses on Europe and the Western world from the Protestant Reformation to the present. We will discuss cultural, political, social, and economic changes and their interrelationship. Topics include European expansion, the age of religious wars and reforms, formation of nation-states, the Scientific Revolution, the Enlightenment, the Industrial Revolution, modern political revolutions (American, French, Russian), imperialism, origins of the two World Wars, the cold war, and postindustrial society.

Hindi

HNDI S-1ab. Beginning Hindi (CRN: 31636)

Naseem A. Hines PhD, Preceptor in Urdu-Hindi, Harvard University

An introduction to the most widely spoken language of South Asia. Students are introduced to both oral and written forms of the language. Conventional teaching materials will be supplemented by Hindi songs from contemporary Indian cinema.

History of Science

HSCI S-116. Darwin, Freud, and Einstein (CRN: 30309)

Thomas F. Glick PhD, Professor of History, Boston University

The influence of science on modern culture and society as viewed through the receptions of Darwinism, Freudian psychology, and relativity. The course considers the biography of each scientist; the impact of his ideas in different countries and on scientific disciplines, popular culture, religion, art, and literature.

Humanities

HUMA S-100. Introduction to Graduate Research Methods and Scholarly Writing in the Humanities (CRN: 31145)

Pat Bellanca PhD, Preceptor in Expository Writing, Harvard University

This proseminar focuses on the research, writing, and critical and analytical skills necessary to produce a successful graduate-level research project in the humanities. Attention will be paid to the development of close-reading skills and to strategies of textual analysis, as well as to the vocabulary of describing the structural and iconographic features of artifacts. The course will explore these topics through an investigation of the Gothic. Works to be studied include *Northanger Abbey*, *The Mysteries of Udolpho*, *Frankenstein*, *Dracula*, short fiction by Poe, and a selection of modern Gothic tales.

Italian

ITAL S-Aab. Beginning Italian (CRN: 31379)

Paolo De Ventura AM, Teaching Fellow in Romance Languages and Literatures, Harvard University

James F. McMenemy MA, Teaching Fellow in Romance Languages and Literatures, Harvard University

Using an active oral approach, this course will provide a foundation in Italian grammatical structures. Aural comprehension and the ability to form elementary spoken sentences will be stressed as well. Attention also will be given to the reading of straightforward Italian prose and to the practice of writing simple patterns of expression. Regular language laboratory attendance is required.

ITAL S-30. The Harvard Summer Program in Forlì (Emilia Romagna), Italy (CRN: 31675)

Elvira G. DiFabio PhD, Senior Preceptor, Romance Languages and Literatures, Harvard University

See Study Abroad Programs.

Japanese

JAPA S-103. Advanced Japanese (CRN: 31511)

Itsuko Nakamura MEd, Preceptor in Japanese, Harvard University

This third-year course is designed to enable students to read modern Japanese with the aid of dictionaries, write essays, understand news or short programs on television and video, and express their thoughts in a formal manner.

JAPA S-Aab. Beginning Japanese (CRN: 30051)

Shinji Sato MA, Teaching Associate, East Asian Languages and Cultures, Columbia University

This introductory course in the basic vocabulary and grammatical patterns of Japanese will emphasize all four language skills--speaking, listening, reading, and writing--and cover hiragana, katakana, and roughly 200 kanji. In class, grammar introduction is followed by pattern drills and conversation practice in smaller sections. This is an intensive course requiring high motivation.

JAPA S-102. Intermediate Japanese (CRN: 30053)

Kiyomi Nakamura MA, Lecturer in Japanese, Stanford University

A second-year course in reading and speaking Japanese to follow JAPA S-Aab, or an equivalent year of elementary Japanese. Emphasis on basic grammar patterns of Japanese. Elementary readings are introduced on various topics drawn from Japanese history, culture, and society. These readings, which are chosen to familiarize students with authentic written Japanese, are supplemented by intensive oral drills and videos on related topics. Approximately 600 kanji are introduced beyond those covered in elementary Japanese. The course is a rigorous one, requiring a substantial time commitment.

JAPA S-C. Practical Japanese (CRN: 30050)

Emi Yamanaka MA, Drill Instructor of Japanese, East Asian Languages and Civilizations, Harvard University

Basic Japanese conversational skills will be taught for practical use in daily situations such as introducing oneself, shopping, ordering in restaurants, and making travel arrangements. Class time will be devoted to the introduction of basic grammatical patterns, drills, and conversation practice. Reading and writing of hiragana and katakana are introduced. This course is useful for students wishing to travel or do business in Japan or those wanting an introduction to Japanese life through the study of its language.

Latin American Studies

LAST S-47. Latin American Cultures (CRN: 31647)

José A. Mazzotti PhD, Assistant Professor of Romance Languages and Literatures, Harvard University

An advanced language and culture course focusing on readings, films, and music from different Latin American regions. Concentrates on the diversity and coexistence of indigenous, African, Asian, and Neo-European traditions within national spaces, and on major historical events like the Mexican Revolution, the Cuban Revolution, the Zapatistas, etc. while emphasizing oral and written expression in Spanish.

LAST S-24. The Harvard Summer Program in Santiago, Chile (CRN: 31657)

Doris Sommer PhD, Professor of Romance Languages and Literatures, Harvard University

See Study Abroad Programs.

Latin

LATI S-Aab. Beginning Latin (CRN: 30026)

John Schafer BA, Doctoral Candidate in the Classics, Harvard University

This course is designed for students with little or no previous instruction in Latin who are seriously interested in making quick progress in the language. The course will cover all basic grammar and offer practice in reading continuous prose.

LATI S-3. Latin Prose Selections (CRN: 31502)

Richard F. Thomas PhD, Professor of Greek and Latin, Harvard University

This course is a bridge between the study of Latin grammar and the reading of prose authors. The readings are short selections from a variety of genres by authors such as Cicero, Pliny, Nepos, Sallust, and Petronius.

LATI S-106b. Virgil: *Aeneid* (CRN: 31634)

Richard F. Thomas PhD, Professor of Greek and Latin, Harvard University

Reading and discussion of Virgil's *Aeneid*, with consideration of its place in the tradition of epic poetry and of its status as an Augustan poem. Emphasis is on improving reading skills.

Linguistics

LING S-120. Introduction to Historical Linguistics (CRN: 31367)

Jeffrey G. Bourns PhD, Instructor in Linguistics, Harvard University

The first part of this course will address language change at all levels of grammar--phonological, morphological, syntactic, semantic, and lexical. Such topics as the role of child language acquisition in language change, what changes are and are not possible in natural language, and what constitutes "language change" in the first place will be considered, along with an evaluation of theories trying to account for the source of change. The second part of the course will treat the subject of language relatedness: the scientific establishment of language families and the comparative method, the reconstruction of ancestral languages, etymology, and philology, with an overview of Indo-European historical linguistics and the Indo-European roots of English. Last but not least, an exploration of language variation, pidgins, and creoles will round things off. No prior experience with linguistics or Indo-European is required or assumed.

LING S-110. Introduction to Linguistics (CRN: 31578)

Jie Zhang PhD, Lecturer on Linguistics, Harvard University

This course is intended as an introduction to the study of human language--its nature and its relationship to other aspects of human culture. Questions to be addressed include the following: How does language differ from other forms of communication? Can chimpanzees and parrots learn language? How different are languages around the world? Does language influence thought? How do children learn to talk? Emphasis will be placed on basic skills--the techniques that professional linguists use to analyze language data into sound structures (phonology) and sentence structures (syntax). The relationship of linguistics to other social and natural sciences, such as psychology, anthropology, and biology, will also be examined.

Mathematics

MATH S-1a Section 1. Calculus I (CRN: 30391)

Otto K. Bretscher PhD, Assistant Professor of Mathematics, Colby College

This course will cover differential and integral calculus in one variable, with applications. We aim to develop conceptual understanding, computational skills, and the students' ability to apply the material to science. The topics covered overlap with the AP calculus curriculum to a large extent. A graphing calculator can occasionally be useful.

MATH S-1a Section 2. Calculus I (CRN: 30392)

Otto K. Bretscher PhD, Assistant Professor of Mathematics, Colby College

This course will cover differential and integral calculus in one variable, with applications. We aim to develop conceptual understanding, computational skills, and the students' ability to apply the material to science. The topics covered overlap with the AP calculus curriculum to a large extent. A graphing calculator can occasionally be useful.

MATH S-1ab. Calculus I and II (CRN: 30390)

Robin Gottlieb MSc, Senior Preceptor in Mathematics, Harvard University

John Mackey PhD, Preceptor in Mathematics, Harvard University

The course covers differential and integral calculus in one variable, including limits and some differential equations. We aim to develop theoretical understanding and practical skills. Graphing calculators help with understanding certain concepts and are recommended. The topics covered are not identical to those of a BC advanced placement class, but do overlap with the AP calculus curriculum to a large extent.

MATH S-1b. Calculus II (CRN: 30393)

Robin Gottlieb MSc, Senior Preceptor in Mathematics, Harvard University

Galileo wrote that "the book of the universe is written in the language of mathematics." Speaking the language of modern mathematics requires fluency with the topics of this course: infinite series, integration, and differential equations. We aim to balance applications and theoretical understanding. Graphing calculators can help with understanding certain concepts and are recommended, but examinations will not require them. The topics covered are not identical to those of a BC Advanced Placement class, but do overlap with the AP calculus curriculum to a large extent.

MATH S-Qr. Chance: An Introduction to Quantitative Reasoning in Everyday Life (CRN: 31523)

John Mackey PhD, Preceptor in Mathematics, Harvard University

This is a beginning probability and statistics course that introduces notions of mean, median, variance, and randomness through contemporary examples. Current news topics provide material for relevant and lively class discussions. Whether you know just a little arithmetic or a lot, this is an engaging course about the use and misuse of quantitative reasoning in everyday life.

MATH S-104. Discrete Mathematics with Computer Science Applications (CRN: 31643)

William B. Robinson PhD, Lecturer in Extension, Harvard University

An introduction to topics in discrete mathematics that are useful in computer science: mathematical logic, set theory, induction, recursion, combinatorics, relations and functions, and graphs. Includes an introduction to algorithm analysis and techniques for proving correctness of programs. Practical programming examples, as well as proof of relevant theorems, will be discussed. The course is intended both for beginning students of computer science and for computer professionals.

MATH S-Xab. Introduction to Functions and Calculus (CRN: 31530)

Thomas W. Judson PhD, Preceptor in Mathematics, Harvard University

This course focuses on functions and their rates of change as these ideas appear in precalculus, differential calculus, and integral calculus. We emphasize the relations among symbolic, numerical, and graphical points of view throughout. Calculus techniques are motivated and illustrated by modeling problems in economics, biology, and other applications.

MATH S-21b. Linear Algebra and Differential Equations (CRN: 30190)

Robert Winters PhD, Visiting Professor of Mathematics, Wellesley College

Topics to be covered include Gauss's method for solving systems of linear equations; matrices; determinants; vector spaces; linear transformations, eigenvalues, and eigenvectors; modeling by differential equations; graphical and numerical analysis of first order equations; first order systems of differential equations; phase plane analysis of systems; applications to population dynamics of biological organisms and mechanical vibrations.

MATH S-21a. Multivariable Calculus (CRN: 30189)

Oliver Knill PhD, Preceptor in Mathematics, Harvard University

To see how calculus applies in situations described by more than one variable, we study vectors, lines, planes, parameterization of curves and surfaces; partial derivatives, directional derivatives, and gradients; optimization and critical point analysis, including the method of Lagrange multipliers; integration over curves, surfaces, and solid regions using Cartesian, polar, cylindrical, and spherical coordinates; vector fields, line and surface integrals for work and flux; and the divergence and curl of vector fields together with applications.

MATH S-Ar Section 1. Precalculus Mathematics (CRN: 30388)

Daniel L. Goroff PhD, Professor of the Practice of Mathematics, Harvard University

A review of algebra is integrated into the study of rational, exponential, logarithmic, and trigonometric functions. Taught in small sections, the course emphasizes applications and problem solving and provides preparation for calculus and basic science. Graphing calculators will be used, though no previous calculator experience is required.

MATH S-Ar Section 2. Precalculus Mathematics (CRN: 30389)

Daniel L. Goroff PhD, Professor of the Practice of Mathematics, Harvard University

A review of algebra is integrated into the study of rational, exponential, logarithmic, and trigonometric functions. Taught in small sections, the course emphasizes applications and problem solving and provides preparation for calculus and basic science. Graphing calculators will be used, though no previous calculator experience is required.

MATH S-301. Theory and Practice of Teaching Number Theory (CRN: 31668)

John D. Boller PhD, Preceptor in Mathematics, Harvard University

Andy Engelward PhD, Preceptor in Mathematics, Harvard University

Topics include: rules of arithmetic, the ring of integers, order axioms and well-ordering of the natural numbers, the division algorithm and Euclidean algorithm, primes and divisibility, congruence and modular arithmetic. Additional topics may include: palindromes, Fibonacci numbers, combinatorial formulas, four numbers game, Egyptian fractions.

Music

MUSI S-106. Music and Politics (CRN: 31570)

Jennifer B. Kotilaine PhD, Assistant Dean for Faculty Development, Faculty of Arts and Sciences, Harvard University

This course explores the various ways in which politics and music intersect. Using traditions ranging from Western art music to popular music in America and elsewhere, we will examine issues of patronage, nationalism, protest, resistance, propaganda, and censorship as manifest in music making around the world.

MUSI S-55. The Evolution of Modern Jazz through Jazz-Rock and Fusion (CRN: 30193)

Thomas G. Everett MS, Director of the Bands and Jazz Program, Harvard University

The evolution and history of modern jazz (1945-1990) and its social/political implications will be discussed and evaluated. Emphasis will be placed on class listening to the music of the classic innovators and stylists from bebop to jazz-rock-fusion: Charlie Parker, Ornette Coleman, John Coltrane, Charles Mingus, and Miles Davis.

Near Eastern Languages and Civilizations

NELC S-198. Field School and Education Program for Ashkelon Excavations: The Leon Levy Expedition (CRN: 31679)

Lawrence E. Stager PhD, Dorot Professor of the Archaeology of Israel and Director of the Semitic Museum, Harvard University

A Field School of 100 students operating under the supervision of a professional archaeological staff of 35 will excavate ancient Ashkelon, one of the most important seaports in Israel and in the eastern Mediterranean. From the Canaanite era (Bronze Age 2000-1200 BC), students will excavate a Bronze Age metropolis of more than 150 acres, with commanding ramparts, including the oldest arched gate in the world, still standing two stories high. They will continue the excavation of Canaanite houses near the courtyard on which the cuneiform tablet was discovered in July 1997. From the Philistine era (1185-604 BC), students will uncover the city known from the days of David and Goliath, from the saga of Samson and Delilah. They will search for the origins of the mysterious Sea Peoples and reveal their culture from the time of arrival until their demise at the hands of the Babylonian conqueror Nebuchadnezzar. From the Roman through Islamic periods, students will uncover residential and commercial quarters of mariners and caravaners. Field training focuses on methods of stratigraphic excavation, recording, and interpretation, and the study of ceramic typology and its applications. Staff specialists will hold workshops dealing with surveying, photography, ceramics, geology, faunal analysis, and conservation of artifacts. Fieldwork will be complemented with a series of lectures by staff and Israeli scholars on the archaeology, geography, and history of ancient Israel, Phoenicia, and Philistia. The course will include three major field trips to other archaeological sites in Israel. Students may visit the Ashkelon Excavations website for more information Admission. Applicants must be at least 17 years of age and in good health. Acceptance is based upon the applicant's potential ability to participate in strenuous field activity with interest, precision, vigor, and attentiveness. Experience is not necessary, but enthusiasm, cheerfulness, and the ability to get along well with diverse personalities under field conditions are definite assets. Students must submit statements from their physician describing their current health. All students must have either their own current medical insurance coverage or coverage through the Harvard Summer School. Please note that the application form in this catalogue is for the Harvard Summer School only. Ashkelon Excavations requires a separate application. For more information and application forms, students should write to Dr. Lawrence E. Stager, Director, Semitic Museum, 6 Divinity Avenue, Cambridge, MA 02138 USA, or call the Ashkelon office at (617) 495-9385 or (617) 495-5756. The application deadline is May 5. Cost. The cost of the program is \$3,960 for tuition, room and board (including weekends), and field trips; plus a \$110 health insurance fee. Airfare to Israel is additional; a group flight is available, but students can also make their own travel arrangements. During the field season, students may travel at their own expense on most weekends.

NELC S-140. Intensive Ottoman Summer School in Turkey (CRN: 31217)

Sinasi Tekin PhD, Senior Lecturer on Turkish, Harvard University
Wheeler M. Thackston PhD, Professor of the Practice of Persian and Other Near Eastern Languages, Harvard University

The Intensive Ottoman Summer School in Turkey is co-sponsored by Harvard University's Department of Near Eastern Languages and Civilizations and Ko#niversity in Istanbul. It offers proficiency-based instruction in the reading and translation of Ottoman materials, both printed and handwritten, and provides students with the paleographic skills needed to use original archival documents written in divani, siyakat, and rik'a. In addition to daily 2-hour instruction in Ottoman, there will be 1 hour of conversation daily based on advanced reading of modern Turkish texts and 1 hour Persian. Formal coursework will be supplemented by weekly seminars taught by leading scholars of Ottoman and Turkish philology and Persian paleography. Admission. For more information and application forms, students should write to Dr. Sinasi Tekin, Department of Near Eastern Languages and Civilizations, Harvard University, 6 Divinity Avenue, Cambridge, MA 02138 USA; send e-mail to stekin@fas.harvard.edu; call the department secretary (617) 495-5757; or fax (617) 496-8904. Students should not submit the Summer School application form. The application deadline is March 1. More information will also be available on the course website. Prospective students who are enrolled in MA and/or PhD programs, or who hold teaching and/or research positions at any academic institution, may apply to various funding sources, including ITS (Institute for Turkish Studies, Washington, DC), FLAS, and Mellon, through their respective centers or departments. Cost. The cost of the program is \$5,500 for tuition and lodging; plus a \$110 health insurance fee. Meals and travel are extra.

Natural Sciences

NSCI S-100. Graduate Research Methods and Scholarly Writing in the Natural Sciences (CRN: 31322)

Amanda R. Benson PhD, Lecturer in Extension, Harvard University

Anthony C. Forster PhD, MD, Instructor in Pathology, Harvard Medical School, Brigham and Women's Hospital

This proseminar emphasizes hypothesis development, experimental methodology, critical interpretation of scientific data, and presentation, and explores controversial topics drawn from current medical and scientific journals. We will attempt to untangle the scientific evidence behind such questions as: Do genes control our behavior? Who can be infected with mad cow disease? Should we eat genetically modified crops? Will gene therapy save us? Assignments will consist of written and oral presentations. At the first class meeting, students must complete a writing assignment that demonstrates their graduate-level reading comprehension and capacity for coherent logical argument.

Philosophy

PHIL S-167. Biomedical Ethics (CRN: 30201)

Eli Hirsch PhD, Charles Goldman Professor of Philosophy, Brandeis University

Students will examine ethical issues that arise in a biomedical context, such as euthanasia, eugenics, reproductive control, lying to patients, and the right to healthcare. The relevance of ethical theory to such issues will be considered.

PHIL S-140. Introduction to Logic (CRN: 30200)

Russell Wahl PhD, Professor of Philosophy, Idaho State University

This course is an introduction to modern formal logic. Students will learn truth-functional and quantificational logic, with special attention to systems of natural deduction, the concepts of validity and invalidity, and the analysis of the logical structure of complex statements. The course also will provide an introduction to some issues in metalogic, including the relation between the semantics and the syntax of a formal system.

PHIL S-7. Introduction to Philosophy (CRN: 30198)

Andreas Teuber PhD, Associate Professor of Philosophy, Brandeis University

This course will cover a number of central topics in philosophy through the writings of major Western philosophers as well as through the close study of several fundamental issues that have arisen in the development of the Western philosophical tradition. Readings will be drawn from the writings of Plato, Aristotle, Anselm, Aquinas, Descartes, Locke, Berkeley, Hume, Kant, Mill, and Nietzsche. Fundamental topics will include arguments for the existence of God; the value of religious belief; faith and subjectivity; the problem of evil; the nature of human knowledge; causation and scientific explanation; perception and illusion; the nature of consciousness; minds, brains, and machines; personal identity and survival after death; freedom and determinism; proposed standards of right conduct; moral relativism; morality and self-interest; and the meaning of life.

Physics

PHYS S-123. Laboratory Electronics: Analog and Digital Circuit Design (CRN: 30203)

Thomas C. Hayes JD, Lecturer on Physics, Harvard University
Jay Ewing MA, Scientist, Research and Development, E Ink Corporation

This course surveys practical electronics, from Ohm's Law through microprocessors, with little mathematical or physical explanation but much opportunity to design and build circuits. Each of the 4-hour meetings devotes about 2.5 hours to a laboratory session. The small class size allows a format closer to seminar than to ordinary lecture. Since the course aims above all to enable students to design useful circuits, it concentrates on the most effective techniques, analog and digital: operational amplifiers and microprocessors. The analog half of the course moves quickly from fundamentals (resistors, capacitors) to design with transistors, bipolar and field-effect, and the many applications of feedback, using operational amplifiers. The digital half of the course looks briefly at discrete-gate design, then at analog-digital interfacing. Students will apply programmable logic devices (PLDs, often called PALs), programming these through a logic compiler (ABEL). Somewhat more than half of the digital content concerns the design of microcomputers, microcontrollers, and their interfaces. The laboratories conclude with a series of seven sessions in which each pair of students constructs and programs a microcomputer. The course is not difficult, but it absorbs a great deal of time. Enthusiasts among our students often spend extra hours in the lab beyond the required sessions.

PHYS S-1ab. Principles of Physics (CRN: 30610)

Cumrun Vafa PhD, Professor of Physics, Harvard University
David Morin PhD, Assistant Director of Undergraduate Studies in Physics, Harvard University, Lecturer on Physics, Harvard University

This survey of classical physics stresses topics important for life science applications. The first half of the course covers kinematics and dynamics, conservation laws, elasticity, and fluid mechanics. The second half of the course covers electricity and electric circuits, magnetism, waves and optics, and nuclear physics. This course fulfills the requirement of two semesters of physics for entrance to medical school.

Portuguese

PORT S-Aa. Beginning Portuguese (CRN: 31381)

Clemence Jouet Pastre PhD, Senior Preceptor in Portuguese, Harvard University

This course is designed for students with little or no knowledge of Portuguese. It will enable beginning students to develop the skills of listening, speaking, reading, and writing Portuguese in a cultural context. Classroom activities include video comprehension and grammar exercises, conversation, and role-playing.

Psychology

PSYC S-1240. Abnormal Psychology (CRN: 30206)

Daniel Perschonok PhD, Lecturer on Psychology in the Department of Psychiatry, Harvard Medical School

An intensive exploration of the conceptual framework of psychopathology and the explanations of impaired psychological functioning. The course focuses on the forms of major mental disorder and of abnormal personality; on their possible causes (for example, cerebral dysregulation or internal conflicts, dysfunctional cognitions or developmental liabilities) and on several prevailing modes of treatment. Mood disorders will be emphasized to exemplify some of the controversial issues of classifying and understanding psychopathological phenomena. Students will examine several illustrative literary and case studies to note dilemmas of applying theoretical constructs to an individual case.

PSYC S-1505. Behaviorism and Behavior Modification (CRN: 31595)

L. Dodge Fernald PhD, Senior Lecturer on Psychology, Harvard University

Among the prominent systems of thought in psychology, behaviorism has been most controversial, yet its principles play a major role in the applications of psychology in everyday life. This course examines the basic concepts, their relevance today, the procedures of behavior modification, and social and ethical issues. It includes guest speakers from a clinical or recreational setting.

PSYC S-1875. Crime and Justice (CRN: 30209)

Ellsworth Lapham Fersch PhD, JD, Lecturer on Psychology in the Department of Psychiatry, Harvard Medical School, Lecturer on Psychology, Harvard University

This course addresses street crime and white-collar crime, diverse concepts of justice, social reaction to crime and violence, the use of psychology and social relations in theories of criminal behavior, punishment and rehabilitation of offenders, imprisonment, death penalty, and juvenile justice. The course discusses the roles of psychologists, criminologists, and participants in the criminal justice system. The course focuses on case studies and on research.

PSYC S-1602. History of Developmental Psychology (CRN: 31391)

Sheldon H. White PhD, John Lindsley Professor of Psychology in Memory of William James, Harvard University

Lectures, readings, and discussions will deal with the history of developmental psychology. At a time when social changes created new patterns and possibilities of human development, scholars--Dewey, Freud, Piaget, Vygotsky--studied human development while new programs and policies--kindergartens, child guidance centers, Head Start--sought ways to influence it.

PSYC S-1. Introduction to Psychology (CRN: 30204)

L. Dodge Fernald PhD, Senior Lecturer on Psychology, Harvard University

Students completing this course gain a broad understanding of modern psychology. Lectures, readings, demonstrations, and multimedia displays address basic topics in historical and contemporary psychology, including various perspectives: biological, cognitive, behavioral, evolutionary, psychoanalytic, and humanistic. Section meetings provide opportunities for active participation in individual and group projects.

PSYC S-1870. Law and Psychology (CRN: 30208)

Ellsworth Lapham Fersch PhD, JD, Lecturer on Psychology in the Department of Psychiatry, Harvard Medical School, Lecturer on Psychology, Harvard University

This course compares legal and psychological approaches to human behavior and considers their interaction. Topics include

criminal, ethnic, and racial profiling; confessions; the insanity defense; involuntary commitment to mental hospitals and substance abuse programs; eyewitness identification and testimony; juries; expert witnesses; and victimless crimes. The course discusses the roles of lawyers and of psychologists and psychiatrists, in theory and in practice. The course focuses on case studies and on research.

PSYC S-1293. Optimal Aging (CRN: 31644)

Douglas H. Powell EdD, Clinical Instructor in Psychology in the Department of Psychiatry, Harvard Medical School

This course will provide an overview of the changes and challenges, as well as opportunities and benefits of growing older. Focusing on the third age of life, the years from 60-80, we will study the realities, and some of the myths, that surround the normal aging process as it affects physical health, cognition, social networks, and psychological adjustment. Special topics will include gender, agism, relative influences of nature/nurture, the growing variability with increasing age, psychoneuroimmunology, and the differences among the young-old, middle-old, and old-old years. Attention will be paid to differences between normal and optimally aging individuals. There will be a discussion of empirically supported activities, within the reach of most of us, which are associated with optimal aging.

PSYC S-1557. Self and Identity (CRN: 31638)

Erin E. Driver-Linn MA, PhD, Lecturer on Psychology, Harvard University

This course examines what William James called "the most puzzling puzzle with which psychology has to deal." Emphasis is on social psychological research, drawing on philosophy and other areas of psychology to address the following questions: (1) Reflexivity--how does being the object of one's own attention affect the structure of the self-concept? (2) Constancy--how is the self-concept both fluid and stable? (3) Relativity--how do relationships and cultures influence self-processes and vice-versa?

PSYC S-1760. Why People Change: Psychology of Influence (CRN: 30207)

Richard N. Wolman PhD, Assistant Clinical Professor of Psychology in the Department of Psychiatry, Harvard Medical School

Students examine the changes that occur in thoughts, feelings, and behavior as a result of growth and development within the individual, both normal and abnormal, and the effects of outside intervention. The course will attempt to establish a conceptual framework for understanding the relationship between personal history and personality formation, and it will examine efforts to modify the individual through outside influence, including psychological, physiological, and spiritual dimensions. There will be readings from classical and contemporary sources.

Religion

RELI S-1705. Introduction to Indo-Tibetan Buddhism (CRN: 31652)

Leonard van der Kuijp PhD, Professor of Tibetan and Himalayan Studies, Harvard University

An introduction to and exploration of Indo-Tibetan Buddhism in the context of Tibetan intellectual and political history, cultural manifestations, doctrines, and thought. Students will read secondary works and examine various primary materials in translation. The course assumes no background in the study of Buddhism, Asian history, religion, or languages.

Russian

RUSS S-1013. Advanced Russian (CRN: 30225)

Natalia Pokrovsky MA, Preceptor in Slavic Languages and Literatures, Harvard University

This course is designed for students who wish to further develop their speaking and reading proficiency. Vocabulary development emphasizes verbs and verb government as essential to effective communication. Grammar work includes both the review of difficult topics and the introduction of new material. Work on reading comprehension makes use of the study of word formation to decrease reliance on the dictionary. Original texts for reading and daily discussion are drawn from classic and contemporary Russian literature, including works by Chekhov, Dostoevsky, Shvartz, and Akhmatova, as well as from contemporary film. The pace of this course is rapid and requires a total time commitment (including class time) of 5 or more hours per day.

RUSS S-Aab. Beginning Russian (CRN: 30222)

Natalia Reed PhD, Lecturer on Slavic Languages and Literatures, Harvard University

This course is a thorough introduction to the Russian language for students with no previous knowledge of Russian. A strong emphasis is placed on developing oral skills and practicing vocabulary and grammar in patterns that imitate natural conversational exchanges. The course includes an introduction to Russian culture with special attention to behavior in social situations to facilitate developing proficiency. To develop reading and speaking fluency, 1 hour per day will be devoted to the reading and discussion of well-known stories, biography, and poetry. Daily reinforcement and writing practice through written exercises. At the end of the course, students will have the means to express themselves on a number of topics and will have a solid basis for further study. Students should be aware that the pace of this course is extremely rapid and requires a total time commitment (including class time) of 6 to 8 hours per day.

RUSS S-B. Intermediate Russian I (CRN: 30223)

Alfia A. Rakova PhD, Preceptor in Slavic Languages and Literatures, Harvard University

Intensive oral work will be used to increase vocabulary and grammatical accuracy in the development of speaking proficiency. General vocabulary development will be followed by thematically organized topics, including greetings and introductions, self and family, education, work, and human relationships. Special work on the etiquette of common social situations, including telephone communication, letter writing, and general conversational strategies. There will be a review and expansion of difficult topics in Russian grammar, including verb conjugation, aspect, verbs of motion, time expressions, and some work on participles and gerunds. Vocabulary and reading proficiency will be developed through classical and contemporary works by such authors as Pushkin, Lermontov, Zamiatin, and Rasputin. The pace of this course is extremely rapid and requires a total time commitment (including class time) of 6 to 8 hours per day.

Sanskrit

SANS S-101. Beginning Sanskrit (CRN: 30221)

Michael E. J. Witzel DPhil, Wales Professor of Sanskrit, Harvard University

This course, equivalent to two semesters of coursework, will enable students to acquire the basic reading skills in Sanskrit. Stress will be placed on learning the Devanagari script, basic grammar, and essential vocabulary. Emphasis also will be given to correct translation of passages ranging from simple narrative literature to the epics.

Scandinavian

SCAN S-178. The Vikings and the Nordic Heroic Tradition (CRN: 31509)

Stephen A. Mitchell PhD, Professor of Scandinavian and Folklore, Harvard University

Examines the heroic legacy resulting from the historical events in Northern Europe 800 to 1100 AD, concentrating on the medieval Icelandic sagas. Focuses on how these texts present their heroes as warriors, kings, poets, outlaws, and adventurers--as well as, to quote one nineteenth-century scholar, "farmers at fisticuffs." Considers several specific heroic traditions, such as the "Bear's Son's Tale" and the "Dragon-Slayer," and reviews how the Viking image is received and shaped in later periods (for example, the poetry of nineteenth-century Denmark, the art of Victorian England, the scholarship and pseudoscholarship of our contemporary world). The question of the North American colony of "Vinland" as a meaningful component of this legacy is examined in its scientific and imaginative contexts.

Sociology

SOCI S-96. Individual Community Research Internship (CRN: 31604)

Kenneth T. Andrews PhD, Associate Professor of Sociology, Harvard University

Lisa Boes MS

This course combines weekly class meetings and an individual internship at a community group in the Boston area. The course gives students the opportunity to use the methods and ideas of sociology in the process of learning about and trying to deal with practical problems faced by groups attempting to bring about changes or provide services in the broader society. Students work with community organizations and agencies where they can play a variety of roles. Class work focuses on instruction in the methods and philosophy of community action organizations. Note: Specific positions and projects vary from year to year. Some students enroll in the course with a specific organization in mind. Other students identify an appropriate organization through consultation with the course instructor who can provide contacts for groups in the Boston area. Interested students can consult Professor Andrews, andrews@wjh.harvard.edu, (617) 495-3895, Department of Sociology, Harvard University, Cambridge, MA 02138 USA, about the nature and availability of internships before the beginning of classes. Attendance at first class meeting required.

Spanish Language and Literature

SPAN S-Aab. Beginning Spanish (CRN: 31365)

Santiago Morales-Rivera MA, Teaching Fellow in Romance Languages and Literatures, Harvard University
Claret Marcia Vargas

Designed to give beginning students a practical command of the language, this course presents the fundamentals of Spanish grammar through an active oral approach. The reading of literary selections and creative writing will complement the acquisition of oral and aural skills. The course includes interactive exercises and cultural activities (music, films, videos). Students also will be required to attend the language laboratory.

SPAN S-44. Contemporary Spanish Film (CRN: 31649)

Johanna Damgaard Liander PhD, Senior Preceptor in Romance Languages and Literatures, Harvard University

An advanced language and culture course that examines major films of Luis Buñuel, Carlos Saura, Pedro Almodovar, and others, in historical, political, and social context. Class discussion also focuses on interviews, reviews, screenplays, and critical articles. Frequent written assignments and a thorough review of advanced grammar, as appropriate.

SPAN S-Cab. Intermediate Spanish (CRN: 30218)

Nina C. de W. Ingrao MEd, Senior Preceptor in Romance Languages and Literatures, Harvard University

Conducted in Spanish, this course is for students who wish to develop or improve their mastery of the language. Review of grammar, class discussions of current events and issues, reading and discussion of selections from major Spanish and Latin American writers. Emphasis is placed on oral communication. After SPAN S-Cab, students should be able to understand lectures in Spanish, converse on everyday topics with a native speaker, read material of average difficulty and mature content, and write with acceptable style and correctness.

SPAN S-27. Spanish Oral Survival (CRN: 31128)

Rosanna Rivero El Badaoui PhD, Teaching Assistant in Romance Languages and Literatures, Harvard University

To develop oral fluency in Spanish, while introducing attitudes, values, art, and different aspects of contemporary life and culture in Spain and Latin America, this course (conducted entirely in Spanish) provides students with opportunities to act out typical situations they would encounter in a Spanish-speaking environment. It also includes songs from different regions, news reports, and paintings. Although oral proficiency is not a prerequisite, the course is best suited to students who already have a good grounding in the grammar of the language.

Social Sciences

SSCI S-100b. Graduate Research Methods and Scholarly Writing in the Social Sciences: Government and History (CRN: 31669)

Doug Bond PhD, Associate Program Director, Program on Nonviolent Sanctions and Cultural Survival, The Weatherhead Center for International Affairs, Harvard University
Joseph Bond PhD, Affiliate, Program on Nonviolent Sanctions and Cultural Survival, The Weatherhead Center for International Relations, Harvard University

This proseminar addresses problems and methods related to the study of government, history, and allied disciplines. It stresses the critical analysis of sources, the construction of explanatory models, standards of logical demonstration, and organizing and presenting research results. Emphasis on developing both writing and research skills.

SSCI S-100a. Graduate Research Methods and Scholarly Writing in the Social Sciences: Psychology and Anthropology (CRN: 31497)

Dante S. Spetter PhD, Research Assistant Professor, Boston University School of Dental Medicine, Assistant Professor of Psychiatry and Pediatrics, Tufts University, Lecturer in Extension, Harvard University

This proseminar introduces students to understanding and conducting research in the behavioral sciences, including hypothesis generation, experimental and quasi-experimental design, observational methods, and the use of surveys and questionnaires. Quantitative and qualitative hypothesis testing, psychometric measurement, reporting research results, research ethics, and experimental validity will be covered. Readings will be drawn from clinical, social, and developmental psychology literature.

Statistics

STAT S-110. Introduction to Probability (CRN: 31483)

Herman Chernoff PhD, Professor of Statistics, Emeritus, Harvard University

A first course in probability pointed toward applications, for students with some calculus. Models include the normal, binomial, exponential, Poisson, and gamma distributions. Topics include expectation, independence, conditioning, generating functions, joint distribution and density functions, and limit laws.

STAT S-100. Introduction to Quantitative Methods (CRN: 30236)

Willis L. Davis PhD, Associate of the Department of Statistics, Harvard University

Basic ideas and concepts of statistics and statistical thinking are introduced, explained, and connected with contemporary applications of statistical methods. Course topics will include design of experiments, descriptive statistics, correlation and regression, probability, chance variability, sampling, estimation, and tests of significance. Knowledge of a computing system is not a course prerequisite; however, MINITAB will be used to illustrate some of the ideas and concepts discussed.

Tibetan

TIBT S-101a. Introduction to Classical Tibetan (CRN: 31653)

Leonard van der Kuijp PhD, Professor of Tibetan and Himalayan Studies, Harvard University

This course, equivalent to one semester of coursework, will enable students to acquire the basic reading skills in classical Tibetan. Students will be introduced to the Tibetan scripts, basic grammar, and syntax of classical Tibetan.

Ukrainian

UKRN S-C. Advanced Ukrainian (CRN: 30230)

Volodymyr Dibrova PhD, Preceptor in Slavic Languages and Literatures, Harvard University

This is an intensive course for students who wish to develop their mastery of the language. Reading selections include annotated articles on contemporary issues in business, economics, politics, and culture. Short written reports and oral presentations will be part of the course. By the end of the course students will be able to discuss extensively a wide range of general interest topics and some special fields of interest, support opinions and hypothesize, and deal with linguistically unfamiliar situations. Classes will be conducted largely in Ukrainian.

UKRN S-Aab. Beginning Ukrainian (CRN: 30227)

Alla Parkhomenko PhD, Associate Professor of English, Kyiv State University

An intensive course for students with little or no knowledge of Ukrainian. Basic grammatical structures are introduced and reinforced through an active oral approach. By the end of the course students are expected to develop the ability to conduct short conversations in a range of familiar situations related to daily activities, understand simple factual texts, and write routine messages, create with language, initiate, maintain and bring to a close simple exchanges by asking and responding to simple questions. A variety of genuine sources will be used to create an "authentic environment."

UKRN S-B. Intermediate Ukrainian (CRN: 31593)

Yuri I. Shevchuk PhD, Independent Scholar and Journalist, Toronto, Canada

An intensive review of basic structures is followed by expansion of these grammar fundamentals. Emphasis will be on oral communication using basic conversational patterns. Major emphasis will be placed on the development of vocabulary, with readings and videotaped programs focusing on contemporary cultural and political issues. By the end of the course students will be able to narrate and describe in major time frames, deal effectively with unanticipated complications in most informal and some formal settings on topics of personal and some general interest.

UKRN S-100. Studying Twentieth-Century Ukraine: Theory, Methodology, Identity (CRN: 31680)

George G. Grabowicz Dmytro Cyzevs'kyj Professor of Ukrainian Literature, Harvard University

John-Paul Himka PhD, Professor of History and Classics, University of Alberta

Alexander J. Motyl PhD, Professor of Political Science, Rutgers University

The goal of this interdisciplinary seminar is to examine the theory and methods that are applied to the study of twentieth-century Ukrainian history, political science, and literature. The seminar will focus on the present state of the disciplines, their interaction, and the problems and issues such an interdisciplinary approach raises. Topics treated will be Ukrainian political and cultural historiography and the larger comparative context, the theoretical, social, and artistic articulations of nationalism and communism, the uses of ideology and cultural politics, the range of articulations of postmodernism and postcolonialism.

UKRN S-101. Twentieth-Century Ukrainian Literature (CRN: 31681)

George G. Grabowicz Dmytro Cyzevs'kyj Professor of Ukrainian Literature, Harvard University

A survey of the major writers and works of twentieth-century Ukrainian literature with a special focus on how their reception and evaluation has been reconfigured by Ukraine's independence. The course will examine, among others, such movements and developments as modernism, the "executed renaissance" (rozstriliane vidrodzhennia), socialist realism, the literature of dissent and emigration, underground literature, and postmodernism through close readings of representative works.

Visual and Environmental Studies

VISU S-167. Adventure, Fantasy, and Visual Representation of Alternate Topography (CRN: 31119)

John R. Stilgoe PhD, Robert and Lois Orchard Professor in the History of Landscape Development, Harvard University

This lecture/slide/film/video course focuses on the visual constituents of high adventure and fantasy engagements (beginning with the tradition of Parrish, Rackham, and Pyle) emphasizing castles and wandering woods, rogues, tomboys, and superheroes; polar exploration and cryptocartography; post-1930s comic book illustration; fantasy film after 1955; martial arts and animal sensibility; urban fear; wilderness-challenge courses; and computer-generated and video-adventure simulations. It analyzes the place of such private-policy enterprises as corporate image-making, interprets them against corporate Gothic and romantic imagery, and extrapolates their importance into the immediate visual future.

VISU S-160. Crucial Issues in Landscape Creation and Perception (CRN: 30352)

John R. Stilgoe PhD, Robert and Lois Orchard Professor in the History of Landscape Development, Harvard University

This is a lecture/slide/video course emphasizing the chief forces now shaping American understanding of everyday form, such as the manipulation of aesthetic standards by advertising and Hollywood imagery; the perfecting of powered flight and the aerial view; the importance of snapshot photography in relation to home video; the post-1960s fascination with outdoor privacy; contemporary and potential spatial disorientation resulting from computer-aided electronic media; the post-1920 retreat of well-educated people into wilderness; the shaping of gender roles and self-image through clothing design and fashion shifts; and the long-term impact of national advertising campaigns on American notions of quality, uniqueness, proportion, and pleasure as reflected in ordinary visual realms.

VISU S-140b. Documentary Photography (CRN: 31635)

Edward Grazda BFA, Photographer

Students will work on a documentary photography project of their own choosing from accessible environs. The aim is to assemble and sequence a body of work that reveals something about the subject and about the photographer. Classes will evaluate students' work as well as examine the history of documentary photography through lectures and films. Students should have a clear idea for a project on the first day of class.

VISU S-21. Drawing Into Painting (CRN: 31363)

James Albert Yarborough MFA, Instructor, Fine Arts, Colby-Sawyer College

This course will engage in exploring and integrating relationships between drawing and painting, and painting and drawing. Students begin by working from natural forms and found objects, searching for a vocabulary of marks, surfaces, textures, shapes, and colors. With reference to various sources, oil paint will be used to make images that reflect the discovery of personal directions and insights.

VISU S-12. Exploring the Nature of Drawing (CRN: 31364)

James Albert Yarborough MFA, Instructor, Fine Arts, Colby-Sawyer College

Using a wide range of graphic media, this course will explore a variety of techniques, processes, and directions in the making of drawings. Natural forms, found objects, and the human figure will be the subject matter for expressive and observational drawing. Students will explore how drawing carries meaning and how it can become a vehicle for self-expression.

VISU S-40. Introduction to Still Photography (CRN: 30603)

Edward Grazda BFA, Photographer

Individual and group exercises will introduce still photography as a descriptive and interpretive medium. Goals of the course are familiarity with the history and aesthetics of photography, proficiency in the technical aspects of camera operation and darkroom work, and development of a personal approach to the medium. There will be lectures, seminars, photo lab sessions, and regular critiques of students' work. All equipment and materials will be provided.

VISU S-60. Mixed Media (CRN: 31377)

Annette Lemieux BFA, Professor of the Practice in Studio Arts, Visual and Environmental Studies, Harvard University

The class introduces contemporary art through slide and video presentations and assigned readings. Students create two- and three-dimensional works for critique using materials that reflect the practices and concerns of contemporary art.

VISU S-112a. Principles of Graphic Design (CRN: 30577)

Toshihiro Katayama Professor of the Practice of Graphic Design, Emeritus, Harvard University

This course will focus on graphic design as an entity distinct from graphic art. Students will be introduced to the interrelationship of visual and verbal communication through typographic symbols, posters, and book cover designs. Projects will be rooted in traditional design methods and tools. A working knowledge of the Macintosh computer is helpful but not necessary. At the instructor's discretion, students who prove that they are qualified for more advanced work may be allowed to transfer into VISU-112b during the first week of the term.

VISU S-112b. Principles of Graphic Design Using Computer Technology (CRN: 31315)

Toshihiro Katayama Professor of the Practice of Graphic Design, Emeritus, Harvard University

This course covers the same topics as VISU S-112a but at a more advanced level. It is designed for students who are versed in the use of mainstream electronic media, and feel comfortable composing in programs such as Adobe Photoshop, Adobe PageMaker, and Adobe Illustrator. These students preferably have previous experience in some aspect of design, be it traditional cut-and-paste layout techniques, digital media authoring (internet design), or logo and identity design. Knowledge of and enthusiasm for using computers as a design tool are key.

Women's Studies

WOMN S-111. Women, Popular Culture, and the American 1950s: I Like Ike, but I Love Lucy (CRN: 31198)

Alice A. Jardine PhD, Professor of Romance Languages and Literatures, Harvard University

A diagnosis and analysis of this formative decade for the US babyboomer. Taught from a cultural studies perspective, the course will focus on gender politics in print, media, film, television, and rock of the early cold war era. Topics will include: the bomb and TV, the Rosenberg trial, the early civil rights movement, the beat generation, Hollywood dreams of true love, Elvis and Marilyn dreaming of immortality. We will talk about Lucille Ball, Jack Kerouac, Joe McCarthy, Marilyn Monroe, Rosa Parks, Elvis Presley, and Ethel Rosenberg among others. The goal of the course is not only to introduce an era, but to understand how the psychosocial, historical, political, and economic frameworks set up in the 1950s have shaped the past 40 years (the so-called postmodern era) and will continue to affect the coming century (the transmodern era?) as American boomers leave their mark on all major global institutions of power.