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# Core-Curriculum

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Committee on the Core Program*

William C. Kirby, Edith and Benjamin Geisinger Professor of History and Dean of the Faculty of Arts and Sciences (*Chair*)

Jeffrey Frieden, Stanfield Professor of International Peace

Benedict H. Gross, George Vasmer Leverett Professor of Mathematics and Dean of Harvard College (*ex officio*)

Thomas Forrest Kelly, Morton B. Knafel Professor of Music

Robert P. Kirshner, Harvard College Professor and Clowes Professor of Science

John E. Malmstad, Samuel Hazzard Cross Professor of Slavic Languages and Literatures

Richard Tuck, Frank G. Thomson Professor of Government

Laurel Thatcher Ulrich, Harvard College Professor and James Duncan Phillips Professor of Early American History

### *The Core Curriculum Program*

The philosophy of the Core Curriculum rests on the conviction that every Harvard graduate should be broadly educated, as well as trained in a particular academic specialty or concentration. It assumes that students need some guidance in achieving this goal, and that the faculty has an obligation to direct them toward the knowledge, intellectual skills, and habits of thought that are the hallmarks of educated men and women.

But the Core differs from other programs of general education. It does not define intellectual breadth as the mastery of a set of Great Books, or the digestion of a specific quantum of information, or the surveying of current knowledge in certain fields. Rather, the Core seeks to introduce students to the major *approaches to knowledge* in areas that the faculty considers indispensable to undergraduate education. It aims to show what kinds of knowledge and what forms of inquiry exist in these areas, how different means of analysis are acquired, how they are used, and what their value is. The courses within each area or subdivision of the program are equivalent in the sense that, while their subject matter may vary, their emphasis on a particular way of thinking is the same.

### *Foreign Cultures*

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION



The goals common to all courses in Foreign Cultures are to expand one's understanding of the importance of cultural factors in shaping people's lives, and to provide fresh perspectives on one's own cultural assumptions and traditions, through study of cultures significantly different from that of the US and the anglophone cultures of the British Isles, Canada, Australia, and New Zealand. These courses also introduce methods of studying a culture, and the issues involved in approaching a culture not one's own. Whether the primary emphasis is on the analysis of key texts and works of art, on historical change, or on other fundamental aspects of individual or social life, Foreign Cultures courses seek to identify the distinctive patterns of thought and action that account for the particular configuration or ethos of another culture.

With the exception of the specific courses listed at the end of this section, departmental courses, including language courses, may not be substituted for Foreign Cultures courses to meet this requirement. Consult the *Introduction to the Core Curriculum* for further details.

## ***Foreign Cultures***

### **Foreign Cultures 12. Sources of Indian Civilization**

Catalog Number: 8312

*Diana L. Eck*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

An exploration to the ideas, ethics, narratives, and religious movements that have shaped a complex civilization from the Indus Valley to Mahatma Gandhi. Readings in primary sources - Vedas and Upanishads, Buddhist and Jain texts, the Mahabharata and the Bhagavad Gita, Bhakti and Sufi poets, Sikh gurus and Muslim kings, and modern thinkers and reformers. Attention to the ways in which these continue to be of significance to the understanding of modern India.

### **[Foreign Cultures 21. Cinéma et culture française, de 1896 à nos jours]**

Catalog Number: 8550

*Tom Conley*

*Half course (fall term). M., W., F., at 11; Screenings M., 7:30–9:30, and a weekly section to be arranged. EXAM GROUP: 4*

Focuses on relations of cinema to French culture from the silent era to the age of video. Explores film in dialogue with cultural and historical events, development of a national style and signature, a history of criticism. Correlates study of cinema to cultural analysis. Takes up Renoir and poetic realism, unrest in 1930s, France and other filmic idioms (Italy, Hollywood, Russia), new wave directors, feminist and minoritarian cinema after 1980.

*Note:* Expected to be given in 2006–07. Conducted in French.

### **Foreign Cultures 22a. La critique sociale à travers l'humour**

Catalog Number: 0656

*Marlies Mueller*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

A second-year language course that explores French institutions, values, and traditions of the 17th and 18th centuries as objects of humorous attacks by such authors as Beaumarchais, La



Fontaine, Molière, and Voltaire. Comprehensive syntheses of early-modern cultural debates through multi-disciplinary approach. Extensive use of visual material (Cassell, Leconte, Rossellini, Scola, Wajda). Emphasis on all four communication skills so that at the end of the course, students should be able to understand lectures in French, converse on a large variety of topics with native speakers, read material of moderate difficulty, and write correct French.

*Note:* Conducted in French. Both Foreign Cultures 22a and 22b, not necessarily in sequence, must be taken to fulfill the Foreign Cultures requirement.

*Prerequisite:* A Harvard placement score of 600 minimum, equivalent preparation, or permission of instructor.

### **Foreign Cultures 22b. La critique sociale à travers l'humour**

Catalog Number: 0591

*Marlies Mueller*

*Half course (spring term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

A continuation of Foreign Cultures 22a at a higher level. Explores institutions, values, and traditions in humorous works of 19th- and 20th-century France. Emphasis on the individual's search for wisdom and happiness in a changing social context (Balzac, Beineix, Godard, Renoir, Sartre, and Stendhal).

*Note:* Conducted in French. Both Foreign Cultures 22a and 22b, not necessarily in sequence, must be taken to fulfill the Foreign Cultures requirement.

*Prerequisite:* A Harvard placement score of 710 minimum, Foreign Cultures 22a, equivalent preparation, or permission of instructor.

### **[Foreign Cultures 30. Forging a Nation: German Culture from Luther to Kant and Beyond]**

Catalog Number: 0580

*Peter J. Burgard*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*  
Examines literary, philosophical, religious, and political movements of the period 1500–1775, from the Reformation to the Enlightenment. Analysis of texts from that time and consideration of their literary reception in the 20th century.

*Note:* Expected to be given in 2006–07. Readings and discussions in German; exams in English; German optional for term paper.

*Prerequisite:* German D, equivalent preparation, or permission of the instructor.

### **[Foreign Cultures 32. Jugend gegen Hitler]**

Catalog Number: 5463

*Judith Ryan*

*Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

The course will treat a series of fictional, cinematic, biographical, autobiographical, and documentary works that depict young people coming to terms with everyday life in Germany during the Nazi regime. Attention will also be paid to the language of Nazi proclamations and opposition pamphlets and flyers. Topics explored include youth resistance movements, the ubiquitous influence of the Hitler Youth, life in hiding from the Nazis, and the concentration camp experience.



*Note:* Expected to be given in 2006–07. Readings and discussions in German; papers and exams in English.

*Prerequisite:* German D, equivalent preparation, or permission of the instructor.

### **Foreign Cultures 34. Mesoamerican Civilizations**

Catalog Number: 3196

*William L. Fash*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

This course highlights the distinctive features of the evolving cultural traditions of Mesoamerica, one of the oldest living civilizations in the world. Pre-Columbian religion, arts, cultural ecology, and construction of power and social identity through myth, ritual, and official history are explored first. Continuities and changes in those traditions resulting from the Spanish conquest, colonial rule, and subsequent global change in the 20th century are then analyzed. In Mexico and Central America, the past continues to shape the present, and living cultures help illuminate processes, events, and worldview in the archaeological past.

### **[Foreign Cultures 35. Barcelona y la modernidad]**

Catalog Number: 7634

*Bradley S. Epps*

*Half course (fall term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

Examines the construction, expansion, and transformation of Barcelona as cultural capital of Catalonia and as site of political and aesthetic experimentation from the mid-19th century to the present. Drawing on literature, criticism, visual arts, architecture, urban planning, film, and music, we explore national identity, nationalism, and language; bilingualism and multiculturalism; and the relations between art and economics, political conformity and resistance.

*Note:* Expected to be given in 2006–07. Conducted in Spanish; papers in Spanish, English, or Catalan.

### **Foreign Cultures 37. Madrid, fin-de-siècle**

Catalog Number: 4425

*Luis Fernández-Cifuentes*

*Half course (fall term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Madrid's first turn of the century as a modern city was marked by the intellectual and artistic activity of the so-called Generation of 1898 (the year Spain lost its last colonies); the second turn, by the aftermath of Franco's dictatorship and the country's incorporation into the European Union. This course will explore and compare the cultural identity of the city at both junctures, through architecture and painting, narrative and film, theatre and comic books, politics and journalism.

*Note:* Expected to be omitted in 2006–07. Conducted in Spanish; papers and exams may be written in English.

### **Foreign Cultures 46. Caribbean Societies: Socioeconomic Change and Cultural Adaptations**

Catalog Number: 6357



*Orlando Patterson*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*  
 Caribbean societies are largely the economic and political creations of Western imperial powers. Though in the West, they are only partly of it, and their popular cultures are highly original blends of African and European forms. The course examines the area as a system emerging from a situation of great social and cultural diversity to the present tendency toward social and cultural convergence. Patterns of underdevelopment are explored through case studies of Latin and Afro-Caribbean states, as are cultural adaptations through studies of Afro-Caribbean religions, fiction, and music.

*Note:* Expected to be omitted in 2006–07.

### **Foreign Cultures 48. The Cultural Revolution**

Catalog Number: 6474

*Roderick MacFarquhar*

*Half course (spring term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3*  
 From 1966 to 1976, the People's Republic of China was wracked by civil strife, student violence, political intrigue, and military plots. What had once seemed the best disciplined and most stable of dictatorial states seemed about to dissolve into disunity, even anarchy, and as a result of the actions of the man who had done more than anyone else to create it: Chairman Mao Zedong. The Cultural Revolution is traced to pinpoint Mao's aims and to explore the deeper political, social, economic, and cultural issues that his actions raised for the Chinese, and for the rest of us as well.

*Note:* For students under the Core requirement, counts as either Foreign Cultures or Historical Study B, but not both.

### **[Foreign Cultures 56. Jewish Life in Eastern Europe]**

Catalog Number: 1271

*Jay M. Harris*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

An examination of the variegated cultural achievements of Eastern European Jewish society, including its religious and ethical worldviews, its educational institutions, its literature, its politics. Primary focus on the 19th century, the development and continuity of traditional life, and the confrontation between traditional and newer cultural patterns.

*Note:* Expected to be given in 2006–07.

### **Foreign Cultures 60. Individual, Community, and Nation in Vietnam**

Catalog Number: 1976

*Hue-Tam Ho Tai*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

Can a society modernize yet preserve its cultural identity? We will explore this issue with reference to Vietnam, where a Marxist-Leninist political system co-exists with a market economy. Modernization has been accompanied by a revival of tradition, religion, and rituals; urbanization by renewed stress on village solidarity. Gender roles are being transformed. Family relationships are being reshaped by increased mobility and new means of communications.



Migration to the uplands is changing local cultures even as ethnic minorities are offered to global tourists as icons of authenticity. What does it mean to be Vietnamese under these circumstances?  
*Note:* Expected to be omitted in 2006–07.

### **Foreign Cultures 63. China's Two Social Revolutions**

Catalog Number: 1884

*Martin K. Whyte*

*Half course (fall term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

A general overview of the patterns of social life in China and how these have changed since the revolution in 1949. The socialist transformations led by Mao Zedong after 1949 and the market and other reforms led by Deng Xiaoping after Mao's death receive equal emphasis. Topics covered include political institutions, work organizations, village life, cities, religion, family life, population control, gender relations, inequality, and schooling.

*Note:* Expected to be omitted in 2006–07.

### **Foreign Cultures 67. Popular Culture in Modern China**

Catalog Number: 8730

*David Der-Wei Wang*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. Four additional sessions to be arranged for screening of films. EXAM GROUP: 13*

This course provides a comprehensive examination of modern Chinese popular culture in the People's Republic of China, Taiwan, Hong Kong, and Southeast Asia. From literature to film, from music to theatre, this course will probe popular culture as it has manifested itself, and trace its sociopolitical, aesthetic, and affective impact on modern Chinese.

### **Foreign Cultures 68. Authority and the Claims of the Individual in Chinese Literary Culture**

Catalog Number: 9028

*Stephen Owen*

*Half course (spring term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

Examines the role Chinese literary texts have played in articulating the place of the individual as part of, or against, the authority of community and state. Beginning with the celebrations of social integration in the early parts of the *Classic of Poetry* (early first millennium BC), we will follow the increasingly complex role literature came to play, both as a critic of authority and as establishing a domain of private life.

*Note:* Expected to be omitted in 2006–07. For students under the Core requirement, counts as either Foreign Cultures or Literature and Arts A, but not both.

### **[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]**

Catalog Number: 1065

*Ali S. Asani*

*Half course (fall term). M., W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Offers an introductory survey of the Islamic world as well as the fundamental concepts and devotional practices of the Islamic faith. Focuses on developing an understanding of the diversity of the Muslim religious worldview and the manner in which it has influenced the political,





social, and cultural life of Muslims in various parts of the world, particularly in the modern period. Briefly considers the contemporary situation of Muslims as a religious minority in Europe and the US.

*Note:* Expected to be given in 2006–07.

### **[Foreign Cultures 72. Russian Culture from Revolution to Perestroika]**

Catalog Number: 5581

*Svetlana Boym*

*Half course (fall term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Explores 20th-century Russian culture through literature, art, and film. Topics include art and revolution, utopian imagination and the authoritarian state, the rewriting of history through literature and film, art of the fantastic and the literature of exile, postcommunism and postmodernism, the search for national identity, and resistance to nationalism. Proceeds from revolutionary avant-garde art and artistic experimentation of the 1920s to the declaration of Socialist Realism and the experience of Stalinism, from dissident art of the 1960s to the culture of the Cold War, perestroika, and beyond. Works by Malevich, Eisenstein, Vertov, Mayakovsky, Babel, Bulgakov, Mandel'shtam, Nabokov, Kundera, and Brodsky.

*Note:* Expected to be given in 2006–07.

### **Foreign Cultures 74. Cultures of Southern Europe**

Catalog Number: 0603

*Michael Herzfeld*

*Half course (spring term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

This is a survey of the modern cultures of Cyprus, Greece, Italy, Malta, Portugal, and Spain. Southern Europe has been viewed as both the fount of “Western civilization” and as a poor and crime-ridden backwater; it has been home to imperial powers and humiliated client-states alike. Through the reading of anthropological field studies (urban and rural), literary and historical portrayals, and artistic representations (including film and opera), this course focuses on what such contradictions mean for people in those countries at the level of everyday life, and provides an account of differences as well as similarities among the countries discussed.

*Note:* Expected to be omitted in 2006–07.

### **Foreign Cultures 76. Nazi Cinema: Fantasy Production in the Third Reich**

Catalog Number: 3396

*Eric Rentschler*

*Half course (fall term). T., Th., at 10; screenings, W., 4–6, and a weekly section to be arranged. EXAM GROUP: 12*

More than a half-century after Hitler's demise, the legacy of Nazi sights and sounds remains contested and problematic. We will analyze seminal films of the Third Reich as ideological constructs, popular commodities, and aesthetic artifacts. How did emanations of Goebbels' Ministry of Propaganda figure within the larger contexts of state terror, world war, and mass murder, and how have Nazi images been presented and recycled since 1945? Sampling of short subjects and documentaries (*Triumph of the Will*, *Olympia*, and *The Eternal Jew*), and narrative films (*Hitler Youth Quex*, *La Habanera*, *Jew Süss*, and *Kolberg*). Readings provide pertinent





socio-historical backgrounds and important theoretical perspectives.

*Note:* Expected to be omitted in 2006–07. No knowledge of German required.

**[Foreign Cultures 82. Modern Arabic Narratives: Self, Society, and Culture]**

Catalog Number: 2619

*William E. Granara*

*Half course (fall term). M., W., at 12, and a weekly section to be arranged. EXAM GROUP: 5*

A historical overview of cultural and social issues in contemporary Arab society as reflected in modern fiction. Attention will be given to the development of the novel and short story as literary media that treat themes such as the conflict between tradition and modernity, anti-colonialism, nationalism, civil war, poverty, alienation, religion and politics, and changing gender roles. Readings will include works of Tayeb Salih, Naguib Mahfouz, Muhammad Choukri, as well as prominent women authors, such as Hanan Shaykh and Sahar Khalifeh.

*Note:* Expected to be given in 2006–07. No knowledge of Arabic required.

**Foreign Cultures 84. Tokyo**

Catalog Number: 9691

*Theodore C. Bestor*

*Half course (spring term). M., W., (F.), at 1, and a weekly section to be arranged. EXAM GROUP: 6*

Tokyo has been one of the world's great metropolitan centers since the 17th century, both the urban hub of Japanese society and culture, and the intersection between Japanese domestic society and trends of global influence. This course examines trajectories of change in Tokyo's urban culture, lifestyles, social structure, and spatial environment across the city's history, using ethnography, history, literature, diaries, architecture, photography, art, cartography, animation, film, and the Internet to explore Tokyo as an urban culture in comparative perspectives drawn from anthropology, history, and other social sciences.

*Note:* Expected to be omitted in 2006–07.

**[Foreign Cultures 85. Japan Pop! From *Bashô* to Banana]**

Catalog Number: 0401

*Adam L. Kern*

*Half course (fall term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

Surveys what is arguably the major alternative to American popular culture, from its relative isolation in the 17th-century to its massive globalization of the present day. Drawing upon literary studies, cultural studies and visual culture, students will engage in the close readings of texts in English translation in different genres and media: *anime*, comic poetry, contemporary performance art, film, *haiku*, J-pop, Japanese hip-hop, *kabuki*, *kibyôshi*, *manga*, novellas, novels, and puppet plays.

*Note:* Expected to be given in 2006–07. No knowledge of Japanese required.

**Foreign Cultures 86. West African Cultures**

Catalog Number: 1648

*J. Lorand Matory*

*Half course (fall term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

We will explore the history and cultures of West and West-Central Africa, taking seriously the



ancient involvement of this region in international politics and commerce. Equally important is the cosmopolitan dialogue that has transformed African ethnic identities, gender relations, and religious devotion in the 20th and 21st centuries.

*Note:* Expected to be omitted in 2006–07.

### **Foreign Cultures 88. The African Experience: Tradition and Modernity**

Catalog Number: 5925

*Francis Abiola Irele*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

This course seeks to introduce students to aspects of cultural change in Africa as reflected in the dominant currents of contemporary African thought and literature, centered on a theme from which they derive coherence and significance: that of the tension between tradition and modernity. While concepts from sociology and anthropology will be employed to elucidate the theme, the emphasis of the course will be placed on the literary and intellectual texts that have shaped reflection on modern African experience. The lectures and discussions of the texts will be supplemented by documentary films and feature films by African directors.

### **Foreign Cultures 90. Tel Aviv: Urban Culture in Another Zion**

Catalog Number: 0199

*Avi Matalon*

*Half course (fall term). M., W., (F.), at 12; section to be arranged. EXAM GROUP: 5*

How to read a city? Tel Aviv was founded under the concept of the “first Hebrew city” and rapidly became the cultural, economic, and political center of Jewish settlement in Palestine. Over the past century it has become a metropolis and the cultural and economic hub of the State of Israel. This course will trace Tel Aviv’s historical development and its cultural representation using history, literature, film, urban planning, photography, art, and music.

*Note:* Expected to be omitted in 2006–07.

### ***Cross-listed Core courses that satisfy the Foreign Cultures requirement***

The following courses fully listed in the Historical Study A area of the Core Curriculum may be taken to meet the Core requirement in Foreign Cultures or in Historical Study A, but not both.

#### **Historical Study A-13. China: Traditions and Transformations**

#### **Historical Study A-14. Japan: Tradition and Transformation**

#### **[Historical Study A-16. The Making of Modern South Asia]**

#### **[Historical Study A-23. Democracy, Development, and Equality in Mexico]**

#### **[Historical Study A-53. The Chinese Revolutionary Tradition]**

The following course fully listed in the Historical Study B area of the Core Curriculum may be taken to meet the Core requirement in Foreign Cultures or in Historical Study B, but not both.

#### **Historical Study B-64. The Cuban Revolution, 1956-1971: A Self-Debate**

The following courses fully listed in the Literature and Arts C area of the Core Curriculum may be taken to meet the Core requirement in Foreign Cultures or in Literature and Arts C, but not both.



**[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage]**

**Literature and Arts C-51. Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde**

***Departmental course that satisfies the Foreign Cultures requirement***

The following departmental course may be taken to meet the Foreign Cultures requirement. This course is not necessarily designed for a general audience; it may assume prior experience or more than could be expected of students seeing the subject for the first time.

**Chinese Literature 130. Screening Modern China: Chinese Film and Culture**

## *Historical Study*

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

The common aim of courses in Historical Study is to develop students' comprehension of history as a form of inquiry and understanding. The courses fall into two groups representing two emphases in historical study.

#### *Historical Study A*

Courses in Historical Study A are designed to help the student understand, through historical study, the background and development of major issues of the contemporary world. These courses illustrate the way in which historical study helps make sense of some of the great issues—often problematic policy issues—of our own world. The courses focus on the sequential development of issues whose origins may be quite distant from the present but whose significance is still profound in the world in which students live today.

#### *Historical Study B*

Courses in Historical Study B focus closely on the documented details of some central historical event or transformation in the deeper past. They aim to develop an understanding of the complexity of human affairs, of the way in which a variety of forces—economic, cultural, religious, political—have interacted with individual aspirations and with the deliberate efforts of individuals to control and shape events in specific contexts and historical moments. They are sufficiently delimited in time to allow concentrated study of primary source materials.

#### ***Historical Study A***

**Historical Study A-12. International Conflict and Cooperation in the Modern World**

Catalog Number: 5129

Stephen P. Rosen and Michael J. Hiscox

Half course (spring term). M., W., F., at 10, and a 90-minute weekly section to be arranged.

EXAM GROUP: 3

An introduction to the theory and history of world politics. Why do states wage war? Why do



they cooperate? Have the answers changed historically? Are economic globalization, ecological interdependence, and global civil society eroding state sovereignty? Or do nationalism, protectionism, and power politics firmly limit world order? The course begins with the Peloponnesian War, the European state system, imperialism, the rise of free trade, and the two World Wars. It continues after 1945 with the cold war, the spread of democracy and human rights, trade liberalization, international law, and ecological cooperation, nuclear weapons, civil strife, and rogue states.

### **Historical Study A-13. China: Traditions and Transformations**

Catalog Number: 5243

*Peter K. Bol and Mark C. Elliott*

*Half course (fall term). M., W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Modern China presents a dual image: a society transforming itself through economic development and social revolution; and the world's largest and oldest bureaucratic state, coping with longstanding problems of economic and political management. Whatever form of modern society and state emerges in China will bear the indelible imprint of China's historical experience, of its patterns of philosophy and religion, and of its social and political thought. These themes are discussed in order to understand China in the modern world, and as a great world civilization that developed along lines different from those of the Mediterranean.

*Note:* For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

### **Historical Study A-14. Japan: Tradition and Transformation**

Catalog Number: 5373

*Mikael Adolphson and Andrew Gordon*

*Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

From the emergence of a court-centered state 1500 years ago to a warrior-dominated society centuries later, Japan's premodern past fascinates people across the world. The people, institutions, and ideas behind these traditions will be the focus of the first half of the course. We then turn to Japan's modern era, which presents one of the more striking transformations in world history. We examine the invention of new traditions as one crucial aspect of the tumultuous changes from the mid-1880s through the present and explore how people in Japan have dealt with the dilemmas of modernity that challenge us all.

*Note:* For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

### **[Historical Study A-16. The Making of Modern South Asia]**

Catalog Number: 9058

*Sugata Bose and Amartya Sen*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

This course provides the historical depth and the comparative context in which to understand contemporary South Asia through an historical inquiry into the making and multiple meanings of modernity. It explores the history, culture, and political economy of the subcontinent which provides a fascinating laboratory to study such themes as colonialism, nationalism, partition, the



modern state, economic development, refashioning of religious identities, center-region problems and relations between Asia and the West. Significant use of primary written sources (in English) and multi-media presentations.

*Note:* Expected to be given in 2006–07. For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

### **Historical Study A-21. Africa and Africans: The Making of a Continent in the Modern World**

Catalog Number: 5568

*Caroline M. Elkins*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*  
 Understanding Africa as it exists today requires an understanding of the broader historical trends that have dominated the continent's past. This course will provide an historical context for understanding issues and problems as they exist in contemporary Africa. It will offer an integrated interpretation of sub-Saharan African history from the middle of the 19th century and the dawn of formal colonial rule through the period of independence until the present time. Particular emphasis will be given to the continent's major historical themes during this period. Selected case studies will be offered from throughout the continent to provide illustrative examples of the historical trends.

*Note:* Expected to be omitted in 2006–07.

### **[Historical Study A-23. Democracy, Development, and Equality in Mexico]**

Catalog Number: 6861

*John H. Coatsworth*

*Half course (fall term). M., W., (F.), at 1, and a weekly section to be arranged. EXAM GROUP: 6*

Mexico has achieved high levels of democratic participation, social equality, and economic growth in the past, but has seldom managed to achieve all three at the same time. This course explores how history as a mode of inquiry and understanding can illuminate Mexico's contemporary challenge, that of overcoming underdevelopment, inequality, and the legacies of authoritarianism, all at the same time. The course also addresses Mexico's complex and ambivalent relationship to external powers, particularly the US, to the extent that doing so contributes to understanding these three contemporary problems.

*Note:* Expected to be given in 2006–07. For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

### **Historical Study A-27. Reason and Faith in the West**

Catalog Number: 8149

*Ann M. Blair*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Examines from an historical perspective one of the central themes in the Western intellectual tradition: the desire to reconcile rational philosophy with religious and biblical authority. Discusses the transformations in conceptions of reason, science, biblical interpretation, and divine intervention (among other themes) in the context of the long period of change from medieval to modern. Readings emphasize primary sources—including, for example, Augustine,



Aquinas, Galileo, Descartes, Newton, and Darwin.

*Note:* Expected to be omitted in 2006–07.

**[Historical Study A-34. Medicine and Society in America]**

Catalog Number: 1552

*Allan M. Brandt*

*Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Surveys major developments in the history of American medicine since 1500. Emphasis on setting the practice of medicine and the experience of health and disease into broad social, cultural, and political contexts. Topics include the social and cultural impact of epidemic disease; the nature of demographic and epidemiological change; the development of medical therapeutics and technologies; the growth of health care institutions; the rise of the medical profession; and debates about the allocation of health care resources. Evaluates the role of medicine in addressing social needs as well as the social and economic determinants of patterns of health and disease.

*Note:* Expected to be given in 2006–07.

**Historical Study A-40. The Middle East and Europe since the Crusades: Relations and Perceptions**

Catalog Number: 5423

*Cemal Kafadar*

*Half course (spring term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

Nine centuries of interaction between two neighboring world civilizations centered around the Mediterranean basin. Examines the transformation of the terms of coexistence and competition over time from an asymmetry in favor of the Islamic world to one favoring Europe in terms of power and prestige. Surveys major events and broad patterns of human activity (wars, migrations, conversions, trade, cultural exchange); compares institutions and worldviews; studies the ways in which the two civilizations perceived and imagined each other. Focus on common roots and mutual influences. Analysis of (mis)perceptions as historically constructed cultural categories and of their legacy in the modern world.

*Note:* Expected to be omitted in 2006–07.

**[Historical Study A-44. Jews in Modern Times: From the French Revolution to the Emergence of Israel]**

Catalog Number: 9323

*Jay M. Harris*

*Half course (fall term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

This course seeks to understand the transformation of the Jews from a relatively homogeneous group that was readily distinguished from its surrounding cultures, to their current state in which they are neither homogeneous nor readily distinguished from other identifiable groups. The focus will be on the political, social, and economic shifts that led to major changes in Jewish political and cultural aspirations and achievements. Specifically, the course will examine processes of change in France, Germany, Russia, and the US.

*Note:* Expected to be given in 2006–07.





**[Historical Study A-51. The Modern World Economy, 1873-2000]**

Catalog Number: 1263

*Jeffrey Frieden*

*Half course (spring term). M., W., 2–3:30, and a 1.5 hour weekly section to be arranged. EXAM GROUP: 7, 8*

The past 125 years have seen more rapid economic growth, and more global economic integration, than ever before. Yet the gap between rich and poor countries has widened, and “globalization” has alternated with attempts at national self-sufficiency under fascist, communist, and other banners. The course explores the impact of technological, economic, social, and political trends, at both global and national levels, on the development of the world economy since 1873. Topics include free trade and the gold standard in the 19th century, European colonialism, the depressions of 1873–96 and 1929–39, and the postwar economic order.

*Note:* Expected to be given in 2006–07.

**[Historical Study A-53. The Chinese Revolutionary Tradition]**

Catalog Number: 1667

*Elizabeth J. Perry*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

The Chinese revolutionary tradition began with peasant uprisings in the mid-19th century and continues to this day. From late imperial times to the present, a steady stream of dramatic revolutionary efforts have exerted a major impact on the direction of Chinese politics. This course examines continuities and changes across successive phases of the process: the quasi-Christian Taipings, the anti-Christian Boxers, the 1911 Revolution, the rise of Communism, Mao’s Cultural Revolution, the 1989 Tiananmen Uprising, contemporary tax riots and labor strikes, etc. It focuses on ways in which earlier repertoires of contentious politics have influenced the aspirations and actions of later generations of protesters.

*Note:* Expected to be given in 2007–08. For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

**[Historical Study A-67. Gendered Communities: Women, Islam, and Nationalism in the Middle East and North Africa]**

Catalog Number: 0352

*Afsaneh Najmabadi*

*Half course (spring term). M., W., 1:30–3, and a weekly section to be arranged. EXAM GROUP: 6, 7*

This course will focus on how concepts of woman and gender have defined meanings of religious and national communities in the Islamic Middle East and North Africa. It will survey changes in these concepts historically through reading a variety of sources—religious texts and commentaries, literary and political writings, books of advice, women’s writings, and films—and will look at how contemporary thinkers and activists ground themselves differently in this historical heritage to constitute contesting positions regarding gender and national politics today.

*Note:* Expected to be given in 2006–07.

**[Historical Study A-71. Constitutionalism]**

Catalog Number: 5202

*Cindy Skach*





*Half course (spring term). Tu., Th., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 15, 16*

We live in a time of increasing reliance on rules, codes, and regulations. Recent steps to sketch governance charters for the European Union, the United Nations, and multinational corporations demonstrate our mounting confidence in rules. This course poses general questions regarding rules in order to familiarize students with the importance of historical change and sequential development. In so doing, the course demonstrates the importance of historical framing for understanding how and why certain rules are made, and why and when such rules are broken. It does so through an analysis of one particularly important set of rules: constitutions.

*Note:* Expected to be given in 2006–07.

### **Historical Study A-73. The Political Development of Western Europe**

Catalog Number: 8261

*Peter A. Hall*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

A survey of the creation of modern politics in Britain, France, Germany, and Italy from the feudal period to the 20th century, focusing on the causes and consequences of crucial developments such as the English and French Revolutions, the Industrial Revolution, 19th-century democratization, and the appearance of fascism. Emphasizes the usefulness of comparative, historical analysis for understanding the origins of contemporary politics and competing approaches to understanding the processes of change associated with the development of the modern state.

*Note:* Expected to be omitted in 2006–07.

### **[Historical Study A-74. Contemporary China: The People's Republic and Taiwan in the Modern World]**

Catalog Number: 0893

*William C. Kirby*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

What are the enduring problems of modern China? How do different Chinese governments confront them? This course assumes that the basic question of 20th-century China remains unanswered: what kind of government, society, and economy will ultimately replace the old imperial system? Part I defines basic themes: quests for national unity and international importance; population and ecological pressures; competition between capitalism and socialism; problems of democracy in Chinese political culture. Part II contrasts the revolutionary experiments of two “new Chinas” after 1950. Part III discusses contemporary reforms in the PRC and Taiwan, and explores the future of “Greater China,” in the light of its past.

*Note:* Expected to be given in 2006–07. For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

### **Historical Study A-75. The Two Koreas**

Catalog Number: 0786

*Carter J. Eckert*

*Half course (spring term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*



This course seeks to provide a broad historical context in which to understand the contemporary political division on the Korean peninsula. It examines key historical forces that have created and shaped the two Koreas before, during, and after the actual partition of the country in 1945. Topics include nascent nation-building efforts between 1876 and 1910, the impact of Japanese colonialism and the Cold War, and North/South development and interaction after 1948. The course interweaves political, socioeconomic, and cultural themes within an historical framework centered on nation-building while also highlighting a number of major historiographical issues in modern Korean history.

**Historical Study A-76. Germany 1871–1990: From Unification to Reunification**

Catalog Number: 3594

*David Blackbourn*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Examines the forces that have shaped modern German history from the Empire created in 1871, through the Weimar Republic and Third Reich, to division and reunification. The continuities as well as discontinuities of this history provide a major theme, particularly the roots of the Nazi period and the question of how far the two postwar Germanys broke with the past. The course is built around three interrelated themes: politics, economy and society, and culture. The principal focus is domestic affairs, but the nature of the “German question” means that attention is given to the international dimension where appropriate.

*Note:* Expected to be omitted in 2006–07.

**Historical Study A-84. American Constitutional History from the Framing to the Present**

Catalog Number: 0718

*Morton J. Horwitz (Law School)*

*Half course (fall term). M., W., F., at 12, and a weekly section to be arranged. EXAM GROUP: 5*

This course is a survey of American constitutional history from the Framing of the Constitution to the present. Our focus will be on the texts of important Supreme Court opinions as well as on other significant documents that have shaped our constitutional understanding.

***Departmental courses that satisfy the Historical Study A requirement***

The following departmental courses may be taken to meet the Historical Study A requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

**African and African American Studies 10. Introduction to African and African American Studies**

**[History 1470. European Intellectual History]**

**History of Science 175. Madness and Medicine: Themes in the History of Psychiatry**

***Historical Study B***

**[Historical Study B-04. Ancient Greek Democracy]**

Catalog Number: 6791



*Eric W. Robinson*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

This course examines the origin, essential nature, and importance of ancient Greek democracy, which first took shape in the city-states of Greece over 2500 years ago. The first part of the course looks at the development of democracy, beginning with the earliest signs of pan-Hellenic egalitarianism and ending with the appearance of fully democratic governments in Athens and elsewhere. The second part considers the ideals and institutions of ancient democracy in the context of Greek society as a whole. Herodotus, Thucydides, Aristotle, and other ancient sources will be read in translation along with modern scholarly interpretations.

*Note:* Expected to be given in 2006–07.

### **[Historical Study B-06. The Roman Games]**

Catalog Number: 2603

*Kathleen M. Coleman*

*Half course (fall term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

Examines the evidence for gladiatorial combat, staged beast-hunts, executions, and aquatic displays in the Roman world. Through analysis of these spectacles the course illuminates the social and political context of the Roman Empire. The evidence to be studied includes literary sources, inscriptions, coins, mosaics, pottery, and selected archaeological sites where the spectacles were performed. A translation is supplied for course material in Greek and Latin.

*Note:* Expected to be given in 2006–07.

### **[Historical Study B-09. The Christian Revolution]**

Catalog Number: 6389

*Christopher P. Jones*

*Half course (spring term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

The course studies the formative period of Christianity as an historical phenomenon. The course begins with the social and political background, and then considers the person of Jesus of Nazareth, how his teaching was developed by his followers, how they built up a “church” of believers, and how Judaism and Christianity were intertwined not only in the person of Jesus but in the history of the two faiths in the decades following the destruction of the Temple. The overall aim is to see how historical methods can be used to explain phenomena which, viewed on their own terms, transcend explanation.

*Note:* Expected to be given in 2007–08.

### **[Historical Study B-11. The Crusades]**

Catalog Number: 0434

*Angeliki E. Laiou*

*Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

Examines the crusades as formative events in the developing relations between Western Christians, Eastern Christians, and Muslims, and in the expansion of Western Europe into both the Middle East and the non-Christian areas of northeastern Europe. Christian and Muslim concepts of holy and just war are elaborated. Topics include: the interaction of political,



economic, and religious factors in the elaboration of the crusading movement; the consequences of the crusades; the transformation of East-West relations; the effects on subsequent history; aspects of medieval colonization; conflict and coexistence between the various peoples involved. Readings focus on sources in translation.

*Note:* Expected to be given in 2006–07.

### **[Historical Study B-13. Charlemagne and the Birth of Medieval Civilization]**

Catalog Number: 2567

*Michael McCormick*

*Half course (spring term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

For 200 years, the family of Charlemagne welded together the disparate fragments of a fallen Roman Empire and free Germania. The result was a new civilization, called Europe; a new cultural movement, called Renaissance. “Charlemagne” investigates how a new civilization arose in the countryside and in the conquests of the 8th and 9th centuries AD with consequences that endure down to our own time. But “Charlemagne” is also about historical analysis: the techniques by which today’s historians wrest new data and insights from manuscripts, memorandums, and mud to rediscover the lives of the men and women who created the first European civilization.

*Note:* Expected to be given in 2006–07.

### **[Historical Study B-18. The Protestant Reformation]**

Catalog Number: 0623

*Steven Ozment*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

In the 16th century, hundreds of thousands of people surrendered religious beliefs, practices, and institutions that had organized daily life and given it meaning for the greater part of a millennium. “The Protestant Reformation” attempts to explain why this happened and how it changed the course of history. Lectures and readings concentrate on the “causes” of the Reformation; its inception and development in representative cities and lands; competing theologies and social philosophies; the variety of linguistic and visual propaganda; the impact on contemporary society and culture; the Catholic response; the Reformation’s legacy to the modern world.

*Note:* Expected to be given in 2006–07.

### **Historical Study B-19. The Renaissance in Florence**

Catalog Number: 4631

*James Hankins*

*Half course (spring term). M., W., at 1, and a weekly section to be arranged. EXAM GROUP: 6*

The Renaissance has been described by historians as a revival of antiquity, as a revolt against the Middle Ages, and as the beginning of the modern world. This course examines these claims in the context of a detailed examination of the society and culture of Florence, the most important Renaissance center, from the time of Dante to the time of Machiavelli.

*Note:* For students under the Core requirement, counts as either Historical Study B or Literature and Arts C, but not both.



### **Historical Study B-24. Utopia in the Age of the Scientific Revolution**

Catalog Number: 2380

*Katharine Park*

*Half course (spring term). M., W., at 12; and a weekly section to be arranged. EXAM GROUP: 5*  
 16th- and 17th-century Europe saw both the invention of a new literary genre, the utopian treatise, devoted to imagining a different and better society, and the creation of a new set of goals and methods for natural inquiry, often referred to as the Scientific Revolution. This course explores the relationship between these two developments. How did the “new science” of thinkers such as Copernicus, Bacon, and Galileo inspire and shape the worlds imagined by writers such as Thomas More, William Shakespeare, and Margaret Cavendish? We will end by considering the fate of the tradition of utopian thought in the 20th century.

*Note:* Expected to be omitted in 2006–07.

### **[Historical Study B-27. The English Revolution]**

Catalog Number: 5234

*Mark A. Kishlansky*

*Half course (spring term). M., W., (F.), at 1, and a weekly section to be arranged. EXAM GROUP: 6*

Explores the causes, development, and consequences of the English Revolution of the 17th century. The English Revolution is one of the pivotal events in Anglo-American and European history. It marks the first constitutional challenge to an absolute monarch and is the crucial forerunner to the American and French Revolutions. Studies the origins of a revolutionary crisis, the dynamics of revolutionary change, and the actions and aspirations of revolutionaries within the context of 17th-century English society. Readings, drawn from contemporary and historical literature, include works by Milton, Hobbes, Clarendon, and Pepys. Discussion sections focus on reading primary materials.

*Note:* Expected to be given in 2006–07.

### **[Historical Study B-34. The World in 1776]**

Catalog Number: 2507

*Sugata Bose, Emma Rothschild (King’s College, Cambridge), and Richard Tuck*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

The world in 1776 was connected by empire, influence, law, commerce, migration, war, and the exchange of ideas. 1776 also saw the publication of Gibbon’s *Decline and Fall of the Roman Empire*, Smith’s *Wealth of Nations*, and Bentham’s *Fragment on Government*. The course examines ideas and ways of life in 1776, in Europe, Asia, Africa, and the Americas. It considers a pivotal year in American history from the vantage point of world history. Readings will include books and periodicals published in 1776, including translations from French, Spanish, and Persian sources.

*Note:* Expected to be given in 2006–07.

### **Historical Study B-35. The French Revolution: Causes, Processes, and Consequences**

Catalog Number: 0525

*Patrice Higonnet*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

The cultural, social, and political life of France before 1789; the rise of a public sphere; the



Revolution in its development from the decentralized “consensus” of 1789 to Jacobin terrorism in 1793–94; the structures of Jacobin thought; the ideological, social, and administrative effects of the Revolution in France. The roles of Mirabeau, the Montagnards, the Girondins, Robespierre, Babeuf, and Napoleon are considered, as well as more general themes such as the effect of public opinion and the redefinition of gender roles.

*Note:* Expected to be omitted in 2006–07.

### **Historical Study B-38. Liberty and Slavery: The History of an American Paradox**

Catalog Number: 8763

*Jill M. Lepore*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

Through careful historical investigation of key events, ideas, and transformations, this course will explore the central paradox of American history: the founding of the first modern democracy by a society that embraced the slavery of abject human bondage.

*Note:* Expected to be omitted in 2006–07.

### **[Historical Study B-40. Pursuits of Happiness: Ordinary Lives in Revolutionary America]**

Catalog Number: 2264

*Laurel Thatcher Ulrich*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

When Thomas Jefferson listed the “pursuit of happiness” as one of the inalienable rights of humankind, he offered future generations an evocative but elusive vision of the good society. This course explores the competing visions of “happiness” that animated political and social life in the half century surrounding the American Revolution. Was happiness best achieved through collective commitment to public good? Through submission to God? Or in the possession of property and the cultivation of private affections? And what happened when happiness became misery or its pursuit provoked political rebellion, riot, scandal, and crime?

*Note:* Expected to be given in 2006–07.

### **Historical Study B-41. Inventing New England: History, Memory, and the Creation of a Regional Identity**

Catalog Number: 1713

*Laurel Thatcher Ulrich*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Much of what we think we know about “colonial New England” was actually a 19th-century invention. Iconic images of the First Thanksgiving, the Salem witch trials, Paul Revere’s Ride, and white spired churches overlooking village greens were largely produced by public commemorations, poems, novels, family histories, and exhibits created long after the fact. This course explores these 19th-century inventions in the light of current scholarship on the history of early New England. Students will explore artifacts, images, and landscapes as well as written documents.

*Note:* Expected to be omitted in 2006–07.




**[Historical Study B-52. Slavery and Slave Trade in Africa and the Americas]**

Catalog Number: 3834

*Emmanuel K. Akyeampong*
*Half course (fall term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

This course begins with the question of terminological precision and the definition of slavery and other forms of servile labor—especially in Africa. The course then examines the institution of slavery in Africa and the Americas within this wider historical context, analyzing the political economies and ideologies that underpin slavery and the crucial role of slave trade in reproducing slave communities that were barely able to reproduce themselves naturally. The course explores the impact of slavery on political, economic, social, and cultural life in Africa and the Americas and ends with a discussion of the legacy of slavery and the global nature of the African diaspora.

*Note:* Expected to be given in 2007–08.

**Historical Study B-53. World War and Society in the 20th Century: World War I**

Catalog Number: 4388

*Charles S. Maier*
*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Viewed together, the two world wars shattered Germany's bid for European domination, revolutionized Russia and extended her influence over Eastern Europe for over 40 years, helped dissolve the colonial empires and create the modern welfare state, and made the US the world's preeminent power. Historical Study B-53 and B-54 examine the problem of war origins; grand strategies of the combatants and the actual nature of fighting; organization of war economies; response of writers and intellectuals; and the nature of the peace settlements and legacies for postwar culture and politics. This course also focuses on the issue of inevitability; the static trench combat; transformation of the state; demographic effects; literary perception and political radicalization of Left and Right; postwar bitterness and disillusion.

*Note:* Expected to be omitted in 2006–07.

**[Historical Study B-54. World War and Society in the 20th Century: World War II]**

Catalog Number: 6497

*Charles S. Maier*
*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Examines the failure of the Versailles system, the Pacific conflict after 1937, the continental European war of 1939–41, the vast coalition struggle of 1941–45, and the bipolar postwar settlement. Topics include the strategic demands of multifront warfare; the role of city bombing, intelligence, and partisan warfare; occupation regimes, collaboration, and resistance; America's "good war" —the politics and culture of the home fronts; war costs, including the civilian toll; postwar purges, liberation movements, and commemoration.

*Note:* Expected to be given in 2006–07.

**Historical Study B-64. The Cuban Revolution, 1956-1971: A Self-Debate**

Catalog Number: 6974

*Jorge I. Domínguez*
*Half course (fall term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

Focus on the insurrectionary war, the consolidation of power, Fidel Castro's role, the role of organized labor and the peasantry, the US-Cuban conflict, the alliance with the Soviet Union, the





choice of economic strategy, the “remaking of human beings,” the role of intellectuals, the support for revolutions in Africa and Latin America, and the change toward “orthodox” policies. The instructor will debate himself, presenting two or more views on each issue. Readings include original documents in translation.

*Note:* Expected to be omitted in 2006–07. For students under the Core requirement, counts as either Historical Study B or Foreign Cultures, but not both.

### **Historical Study B-67. Japan’s Modern Revolution**

Catalog Number: 4164

*Daniel V. Botsman*

*Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Examines the causes and consequences of one of the most important events in modern world history—Japan’s transformation from feudal state to imperialist power. The class begins with a consideration of *samurai* rule during the Tokugawa period (1600–1868) and the social changes that resulted from over two centuries without war. We then examine the impact of Japan’s forcible incorporation into a “modern world system” in the mid-19th century, the radical reforms implemented in the wake of the Meiji Restoration of 1868, and the beginning of Japanese imperialism in Asia. Discussion sections focus on a broad array of primary documents in translation.

*Note:* Expected to be omitted in 2006–07.

### **[Historical Study B-68. America and Vietnam: 1945-1975]**

Catalog Number: 3447

*Hue-Tam Ho Tai and Ernest R. May*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

Examines modern conflicts in Vietnam and their implications for the US from 1945–75, from both Vietnamese and American perspectives. Seeks to provide an understanding of the complexity of the war and the ethical dilemmas it raised by examining issues ranging from the power-politics assumptions of decision makers to the personal experiences of those caught in the war. Covers both background and consequences of the war, but the main focus is on the 30-year period during which the fortunes of America and Vietnam became intertwined.

*Note:* Expected to be given in 2006–07.

### ***Cross-listed Core courses that satisfy the Historical Study B requirement***

The following course fully listed in the Foreign Cultures area of the Core Curriculum may be taken to meet the Core requirement in Historical Study B or in Foreign Cultures, but not both.

### **Foreign Cultures 48. The Cultural Revolution**

The following courses fully listed in the Literature and Arts C area of the Core Curriculum may be taken to meet the Core requirement in Historical Study B or in Literature and Arts C, but not both.

### **Literature and Arts C-40. The Chinese Literati**



[Literature and Arts C-42. Constructing the Samurai](#)  
[Literature and Arts C-61. The Rome of Augustus](#)

***Departmental courses that satisfy the Historical Study B requirement***

The following departmental courses may be taken to meet the Historical Study B requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

[History 10a. Western Societies, Politics, and Cultures: From Antiquity to 1650](#)  
[History 1150. The Jews in Muslim and Christian Spain](#)

*Literature and Arts*

**AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

Courses in Literature and Arts aim to foster a critical understanding of artistic expression, and to exemplify the ways in which the humanities are an arena for scholarly examination and discussion. These courses illustrate and analyze what constitutes knowledge in the various fields—its varieties, forms, scope, uses and abuses, and modes of interpretation—while familiarizing students with major works, major themes, or clusters of creative achievement in particular times and places.

*Literature and Arts A*

Focuses on literary texts and methods of literary analysis. Courses in this area offer a variety of critical and analytical approaches to literature, and a range of responses to questions such as the following: How does literature function? How are literary genres and traditions constituted and transformed? What are the relations among author, reader, text, and the circumstances in which the text is produced? How is our reading of the literature of the past influenced by the concerns of the present?

*Literature and Arts B*

Introduces students to a non-literary form of expression, and offers instruction in the elements of either visual or musical understanding, in the discipline of looking or listening. In addition to studying the articulation of visual or musical forms and their meanings, courses may emphasize the relationship between artistic or musical production and the historical/cultural moment in which it takes place.

*Literature and Arts C*

Studies creative cultural epochs in history, and explores how works of literature and art function within a given society. Focusing on significant periods, styles, or movements, these courses describe and analyze ways in which culture is produced, interpreted, and disseminated.

***Literature and Arts A***



**[Literature and Arts A-11. Arthurian Literature: Epic versus Romance]**

Catalog Number: 0995

*James Simpson*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

A permanent fault-line runs throughout Western literature, between epic and romance. Epic contests territory, while romance discovers the self. Epic focuses on charismatic leaders, represents the rise and fall of societies, and depicts war across a realistic geography. Romance focuses on the energetic young, represents trials of sexual desire ending either in marriage or adultery, and has a symbolic geography. Epic and romance critique each other, without resolving this inevitable conflict. This course focuses on brilliant examples of literature about King Arthur's court, written between the 12th and the 15th centuries, with some reference to 19th-century English and American texts.

*Note:* Expected to be given in 2006–07.

**Literature and Arts A-16. Lives Ruined by Literature: The Theme of Reading in the Novel**

Catalog Number: 0691

*Judith Ryan*

*Half course (spring term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

An exploration of the theme of reading as presented in the novel from the 18th century to the present. Topics include misreading and escapist reading, confusing fiction with reality, modeling one's life on fiction, and misusing literature in relations of love and friendship. Attention also paid to narrative point of view; problems of intertextuality; and comedy, tragedy, and parody in the novel. Authors include Goethe, Flaubert, Rilke, Wharton, Nabokov, and Barnes.

*Note:* Expected to be omitted in 2006–07.

**[Literature and Arts A-22. Poems, Poets, Poetry]**

Catalog Number: 5808

*Helen Vendler*

*Half course (fall term). M., W., at 1, and a weekly section to be arranged. EXAM GROUP: 6*

A study of poetry as the history and science of feeling: readings in major lyric poems of England and America. Emphasis on problems of invention and execution, and on the poet's choice of genre, stance, context, and structure. Other topics to be raised include the process of composition, the situating of a poem in its historical and poetic contexts, the notion of a poet's development, the lyric as dramatic speech, and the experimental lyric of the 20th century.

*Note:* Expected to be given in 2006–07.

**Literature and Arts A-26. Dante's Divine Comedy and Its World**

Catalog Number: 6090

*Lino Pertile*

*Half course (fall term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Studies Dante's *Divine Comedy* as an enduring work of poetry, a major text of the European literary tradition, and the most comprehensive synthesis of medieval culture. Largely based on textual analysis, the course looks at how literature works in relation to, on the one hand, the language and rhetorical tradition in which it is expressed and, on the other, the culture which it



expresses and interprets. Particular attention is paid to the poem's central philosophical concerns, from the role of the individual in history and society to the relationship between progress and happiness, and between politics and morality.

*Note:* Expected to be omitted in 2006–07.

### **Literature and Arts A-35. Tragic Drama and Human Conflict**

Catalog Number: 0172

*Bennett Simon (Medical School)*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

Introduces the student to the use of psychoanalytic perspectives in enhancing the understanding and appreciation of tragic drama. Focuses on tragedy as a study of the family, emphasizing the problem of how the family at war with itself can procreate and continue. Also discusses the form of tragic drama, particularly with regard to dialogue and storytelling within the plays. Readings include ancient, Shakespearean, and modern tragedies, as well as secondary sources that assist in understanding psychoanalytic concepts. Films and live performances supplement the readings.

*Note:* Expected to be omitted in 2006–07.

### **[Literature and Arts A-40. Shakespeare, The Early Plays]**

Catalog Number: 0176

*Marjorie Garber*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

The early comedies, tragedies, and histories, considered in the context of the origins of the English stage and the conventions of Elizabethan drama. Particular attention paid to Shakespeare's development as a dramatist, and to poetic expression, thematic design, stagecraft, and character portrayal in plays.

*Note:* Expected to be given in 2006–07.

### **[Literature and Arts A-41. Shakespeare, The Later Plays]**

Catalog Number: 1624

*Marjorie Garber*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

The late comedies, tragedies, and romances, with some attention to the prevailing literary traditions of the Jacobean period. Particular attention paid to Shakespeare's development as a dramatist, and to poetic expression, thematic design, stagecraft, and character portrayal in the plays.

*Note:* Expected to be given in 2006–07.

### **[Literature and Arts A-45. Theories of Authorship: Russian Case Studies]**

Catalog Number: 0189

*Justin Weir*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Surveys central theories of authorship in the western tradition and considers how they have been realized and transformed by Russian writers. We analyze the process by which different concepts of the self, as shaped by Plato, Descartes, Rousseau, and others, have been creatively



appropriated by seminal Russian authors, such as Pushkin, Dostoevsky, Tolstoy, Bulgakov, and Nabokov, in order to articulate their own ideas of the relationship between writing and identity. Concludes with an examination of how new technology and recent copyright laws have affected post-Soviet notions of authorship.

*Note:* Expected to be given in 2006–07.

### **Literature and Arts A-48. Modern Jewish Literature**

Catalog Number: 1250

*Ruth R. Wisse*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Studies works in different languages and genres that variously interpret the experience of Jews in the 20th century. Explores such issues as what information literature can provide, the relation of language and historical context to artistic strategy, and personal and national perspectives in narrative. Authors include Sholem Aleichem, Franz Kafka, Isaac Babel, Isaac Bashevis Singer, Shmuel Yosef Agnon, Primo Levi, and Saul Bellow.

*Note:* Expected to be omitted in 2006–07.

### **Literature and Arts A-51. Virgil: Poetry and Reception**

Catalog Number: 1565

*Richard F. Thomas*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Begins with the *Aeneid*, paradigmatic epic of the West, from various perspectives, involving literary aesthetics and translation theory, Homeric and other intertextuality, concepts of heroism and anti-heroism, individual choice vs. public responsibility, critique of empire then, now, and in between. Concurrent attention to Virgil tradition in early Christianity, Dante, Milton, Dryden, the Romantics, post-WWI Modernists; influence on music, art, and iconography. Subsequent focus on the *Eclogues* and *Georgics*, their place in the traditions of European pastoral and didactic, status as works of early Augustan poetry, and reception from Petrarch to Heaney.

*Note:* Expected to be omitted in 2006–07.

### **[Literature and Arts A-53. “Athens and Jerusalem”: Self and Other in Classical Greek and Hebrew Literature]**

Catalog Number: 8681

*Peter Machinist and Bennett Simon (Medical School)*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Examines the representation of “self” and “other” in two literatures foundational to Western culture, Classical Greek and Biblical Hebrew. The premise is the necessity of an “other” in order to define the “self.” Starts with “Athens” and “Jerusalem” as emblematic of the self/other polarity that the West drew out of these literatures. Then explores in them other manifestations of self and other: group identity and group origins, woman and deity as other, the development of heroic selfhood, and the emergence of self-knowledge. Emphasizes throughout how poetic and narrative forms both shape and are shaped by visions of self and other.

*Note:* Expected to be given in 2006–07.



**Literature and Arts A-57. Bilingual Arts**

Catalog Number: 1599

*Doris Sommer and Eileen Cheng-yin Chow*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

The intellectual, social, and aesthetic advantages of bilingualism will be explored through significant works of literature and theory. Bilingualism is an increasingly common condition, given transnational movements. But it is often misunderstood as confused or deficient because outdated expectations about identity and belonging prefer simple labels. Normally complex and creative, bilinguals are sophisticated about language. They know it is arbitrary and that communication is full of risks, mistakes, and pleasures of intermittent contact. This uneasiness about language amounts to a predisposition toward aesthetics and other philosophies.

*Note:* Expected to be omitted in 2006–07.

**[Literature and Arts A-58. Ethnicity, Modernity, and Modernism in 20th-Century Literature, Art, and Culture]**

Catalog Number: 0287

*Werner Sollors*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

Is the stress on ethnic diversity a form of resistance to, or a feature of modernity? How has aesthetic production been affected by the horrors of modernity, by violence and genocide? What is the relationship of modernism to democracy, fascism, and communism? These questions, complemented by ethnic theory, inform discussions of such texts as *The Life Stories of Undistinguished Americans* and such authors as Mark Twain, Gertrude Stein, Jean Toomer, Eugene O'Neill, Henry Roth, William Faulkner, Hisaye Yamamoto, LeRoi Jones/Amiri Baraka, Maxine Hong Kingston, Richard Rodriguez, and Gerald Vizenor.

*Note:* Expected to be given in 2006–07.

**[Literature and Arts A-60. Aspects and Forms of Narrative]**

Catalog Number: 1093

*William Mills Todd III*

*Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

An introduction to the analysis of narrative and examination of narrative forms and explanations. Topics include defining narrative, aspects of narrative, and types of narrative (e.g., literary, historical, psychoanalytic, legal). Readings feature narratives and theoretical essays.

*Note:* Expected to be given in 2007–08.

**[Literature and Arts A-63. Women Writers in Imperial China: How to Escape from the Feminine Voice]**

Catalog Number: 8286

*Wilt Lukas Idema*

*Half course (fall term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Despite the dominance of men as authors, subjects, and readers of literature in imperial China (221 BCE–1911), this same period also saw the emergence and development of a rich tradition of women's literature. We will discuss what kinds of women have left literary works, and how





the marginal status of women's literature affected the genres women wrote in and the subjects they could deal with. As China's male literature developed its own tradition of writing in the voice of women, we will pay special attention to the question of how women found their own voice despite this pre-existing "feminine" tradition.

*Note:* Expected to be given in 2006–07.

### **[Literature and Arts A-64. American Literature and the American Environment]**

Catalog Number: 4783

*Lawrence Buell*

*Half course (fall term). Tu., Th., at 9, and a weekly section to be arranged. EXAM GROUP: 11*

A study of selected traditions in American writing that have been formed by perceptions of the American environment. Topics include the cult of wilderness; white images of the American Indian and vice versa; the pastoral, agrarian, and natural history traditions in American prose; and literary responses to urbanization and environmental endangerment. Readings range from 17th-century Puritan texts to contemporary works, with primary emphasis on narrative and nonfictional prose, but some works of poetry are included as well.

*Note:* Expected to be given in 2006–07.

### **Literature and Arts A-70. The Book of Job and the Joban Tradition**

Catalog Number: 7991

*Peter Machinist*

*Half course (fall term). M., W., at 12, and a weekly section to be arranged. EXAM GROUP: 5*

An examination of the biblical book of Job along with related texts, ancient, medieval, and modern, that allow us to establish the literary and philosophical traditions in which Job was composed and the literary and philosophical legacy it has left. Particular focus on the ways the texts play off one another in literary form and expression and in their treatment of such themes as divine justice, human piety, and the nature of the divine-human encounter.

*Note:* Expected to be omitted in 2006–07.

### **[Literature and Arts A-72. The Enlightenment Invention of the Modern Self]**

Catalog Number: 7800

*Leo Damrosch*

*Half course (fall term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

A study of major 18th-century autobiographical, fictional, and philosophical texts that explore the paradoxes of the modern self at a time when traditional religious and philosophical explanations were breaking down. Writers to be read include Mme. de Lafayette, Boswell, Voltaire, Gibbon, Diderot, Rousseau, Laclos, Franklin, and Blake.

*Note:* Expected to be given in 2006–07.

### **[Literature and Arts A-82. Orpheus: Literary, Artistic, and Cultural Figurations]**

Catalog Number: 1445

*John T. Hamilton*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

The course spans over two thousand years of varying interpretations, settings, and appropriations of the Orpheus myth. The power of music and the fatality of passion, the expropriating effects of



language and the regeneration of poetry, are but a few of the themes addressed and elaborated within the myth's threefold configuration of harmony, descent, and dismemberment. In addition to investigating the rich literary tradition, the course also turns to significant versions in opera, ballet, film, and the visual arts.

*Note:* Expected to be given in 2006–07.

### **Literature and Arts A-86. American Protest Literature from Tom Paine to Tupac**

Catalog Number: 7442

*John Stauffer*

*Half course (spring term). M., W., (F.), at 11; and a weekly section to be arranged. EXAM GROUP: 4*

This interdisciplinary course examines the rich tradition of protest literature in the US from the American Revolution to the rise of Hip Hop and globalization. Using a broad definition of “protest literature,” it focuses on the production and consumption of dissent as a site of progressive social critique, using a wide variety of print, visual, and oral forms. We examine the historical links between modes of protest and meanings of literature, and explore how various expressions of dissent function as aesthetic, performative, rhetorical, and ideological texts within specific cultural contexts. “Readings” range from novels to photographs and music.

### ***Cross-listed Core course that satisfies the Literature and Arts A requirement***

The following course fully listed in the Foreign Cultures area of the Core Curriculum may be taken to meet the Core requirement in Literature and Arts A or in Foreign Cultures, but not both.

### **Foreign Cultures 68. Authority and the Claims of the Individual in Chinese Literary Culture**

### ***Departmental courses that satisfy the Literature and Arts A requirement***

The following courses may be taken to meet the Literature and Arts A requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

**English 10a. Major British Writers I**

**English 10b. Major British Writers II**

**English 13. The English Bible**

**English 124g. Shakespearean Genres**

**English 150. British Romantic Poetry**

**English 151. The 19th-Century Novel**

**English 196. Literature of Migration and Ethnicity: The Case of the United States**

### ***Literature and Arts B***

### **Literature and Arts B-11 (formerly Visual and Environmental Studies 170a). The Art of Film**

Catalog Number: 4249 Enrollment: Limited to 200.

*D. N. Rodowick*

*Half course (fall term). M., W., at 12, and a weekly section to be arranged. Additional weekly*



*required screenings scheduled on Mondays from 4-6 pm. EXAM GROUP: 5*

An introduction to the study of film with a focus on developing critical and formal analytical skills. Through readings and screenings of a broad range of films, the class examines the primary visual, aural, and narrative conventions by which motion pictures create and comment upon significant social experience. Issues of mise-en-scène, framing, image composition, photographic space, editing, sound, narrative structure, and point of view will be discussed as components of cinematic style and meaning.

**[Literature and Arts B-20. Designing the American City: Civic Aspirations and Urban Form]**

Catalog Number: 3243

*Alex Krieger (Design School)*

*Half course (spring term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

An interpretive look at the American city in terms of changing attitudes toward urban life. City and suburb are experienced as the product of design and planning decisions informed by cultural and economic forces, and in relationship to utopian and pragmatic efforts to reinterpret urban traditions in search of American alternatives. Topics include: persistent ideals such as the single-family home, attitudes toward public and private space, the rise of suburbs and suburban sprawl, cycles of disinvestment and renewed interest in urban centers, and impacts of mobility and technology on settlement patterns.

*Note: Expected to be given in 2006–07.*

**Literature and Arts B-21. The Images of Alexander the Great**

Catalog Number: 2267

*David G. Mitten*

*Half course (fall term). M., W., (F.), at 1, and a weekly section to be arranged. EXAM GROUP: 6*

The images of Alexander the Great are examined within various cultural contexts ranging from 4th-century BCE Greece to 20th-century America. Various art forms (including sculpture, coins, and paintings) illuminate Alexander's personality and career and the development of his legend. Course explores how images reveal the complex relationship between a strong individual personality and artistic conventions. Special attention is paid to the importance of political imagery and how the images of Alexander reflect changing ideas of rulership. Where, if anywhere, is the "truth" in these images? Original objects in the Sackler collection and Boston Museum of Fine Arts are emphasized.

**Literature and Arts B-24. Constructing Reality: Photography as Fact and Fiction**

Catalog Number: 5649

*Robin E. Kelsey*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Historically, photographs have been exceptionally persuasive records of places, people, and events. This course will consider photographs from a broad range of cultural sites and activities, including battlefields, expeditions, laboratories, slums, farms, factories, political rallies, and crime scenes, to investigate the ways in which photographers, viewers, and institutions have



negotiated the interplay of photography's rhetorical and evidentiary dimensions. Featured photographs and practices will be drawn from various countries and historical moments. Particular attention will be given to fostering skills in visual analysis and historical interpretation. *Note:* Expected to be omitted in 2006–07.

### **[Literature and Arts B-31. The Portrait]**

Catalog Number: 4240

*Henri Zerner*

*Half course (fall term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*  
 The most famous of all works of art is a portrait. Sculptors and painters have made likenesses of individuals since the ancient Kingdom of Egypt. The portrait gives visual form to changing conceptions of individual existence, and its history can make us more conscious of how time-bound, how culturally determined is our own sense of self. The course examines how artistic conventions are established to give visual and tangible form to intuitions, feelings, and thoughts. Examples taken from a variety of periods with greater emphasis on the Western tradition from the Renaissance to the present.

*Note:* Expected to be given in 2006–07.

### **Literature and Arts B-34. Frank Lloyd Wright and the Modern City and Suburb**

Catalog Number: 3508

*Neil Levine*

*Half course (spring term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

How did the modern city and suburb come to have the shape they do? This course examines the relatively unstudied area of Frank Lloyd Wright's designs for the modern metropolis as a lens through which to understand the history of 20th-century city planning and urban design as a whole. Subjects will range from the creation of the modern suburb and skyscraper city to the problems of designing for the automobile and revitalizing the downtown. Issues of theory, context (both physical and cultural), politics, criticism, and historical relevance will all be addressed.

*Note:* Expected to be omitted in 2006–07.

### **Literature and Arts B-35. The Age of Sultan Suleyman the Magnificent: Art, Architecture, and Ceremonial at the Ottoman Court**

Catalog Number: 1678

*Gülru Necipoglu-Kafadar*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

"Golden Age" of Ottoman-Islamic visual culture in the 16th century, considered within its ceremonial and historical contexts, focusing on architecture, miniature painting, and decorative arts. Stresses the transformation of Byzantine Constantinople into Ottoman Istanbul, formation of an imperial architectural style, and artistic contacts with contemporary European and Islamic courts. Considers art and architecture of Safavid Iran and Mughal India as a comparative backdrop. Discusses the role of centralized court ateliers in propagating canons of taste, the emphasis on decorative arts in a culture that rejected monumental sculpture and painting, and



representations of the East by European artists in the Orientalist mode.

*Note:* Expected to be omitted in 2006–07.

### **[Literature and Arts B-43. The Gothic Cathedral]**

Catalog Number: 1561

*Jeffrey F. Hamburger*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Coined as a term of contempt, “Gothic” now defines among the most exalted works of art and architecture in the Western tradition. To this day, Gothic cathedrals dominate the urban landscape in much of Europe. In their own time, they represented a revolution in design and in religious and social practice. The course aims to consider the cathedral, principally in France, in all its dimensions: civic, religious, ideological, and historiographical, with the emphasis on the architecture, as well as sculpture, stained glass, metalwork, and manuscript illumination.

*Note:* Expected to be given in 2007–08.

### **[Literature and Arts B-48. Chinese Imaginary Space]**

Catalog Number: 9186

*Eugene Wang*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Examines visual representations of imaginary space, i.e., alternative worlds or heightened modes of existence, such as heaven, paradise, numinous afterlife world, utopian land, immortal islets, fictive frontier, and mindscape, etc., as they are evoked in Chinese tombs, cave shrines, sarcophagus design, scroll paintings, calligraphy, gardens, architecture, and films. Modes of analysis are introduced to understand how different media effectively conjure up these other worlds and spaces. Also explores how these imaginary worlds displace social reality and cultural aspirations. The ultimate goal is to enable the student to appreciate the crucial role of space in the making of visual culture.

*Note:* Expected to be given in 2006–07.

### **Literature and Arts B-51. First Nights: Five Performance Premieres**

Catalog Number: 0144

*Thomas Forrest Kelly*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

A study of five famous pieces of music, both as timeless works of art and as moments of cultural history. Close attention is given to techniques of musical listening, and to the details of the first performance of each work, with a consideration of the problems involved in assembling such a picture. Works studied are Beethoven, *Symphony no. 9*; Berlioz, *Symphonie fantastique*; Stravinsky, *Le sacre du printemps*; Handel, *Messiah*; Monteverdi, *Orfeo*. The course concludes with the first performance of a new work especially commissioned for this course.

### **Literature and Arts B-52. Mozart**

Catalog Number: 3672

*Robert D. Levin*

*Half course (fall term). M., W., F., at 1, and a weekly section to be arranged. EXAM GROUP: 6*

The course will examine a different domain of Mozart’s *oeuvre* each time it is taught, starting in



2005 with the piano concertos. The origin of Mozart's concerto form (aria structure, Baroque concertos) precedes study of a representative selection of the 21 original Mozart concertos for piano and orchestra—the largest corpus of such works by any master composer. Style and rhetoric will be central concerns, and attention will be given to evolution in interpretative style through listening to historic as well as recent recordings. The assigned works will be demonstrated by live performances by the professor with several Harvard student orchestras.

*Note:* Expected to be omitted in 2006–07.

### **Literature and Arts B-63. Bach in His Time and Through the Centuries**

Catalog Number: 1520

*Christoph Wolff*

*Half course (spring term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

A study of the music of J.S. Bach in various contexts, focusing on selected vocal and instrumental compositions with particular attention to biographical perspectives, style, genre, and the music of major contemporaries. Beyond this, the encyclopedic nature of Bach's creative output, which renders him one of the most seminal figures in the history of music, lends itself to an examination of his relationship to musical traditions from the Middle Ages through the Baroque, as well as his influence on compositional techniques and aesthetics from the 18th through the 20th century.

### **Literature and Arts B-68. Opera**

Catalog Number: 0940

*Anne C. Shreffler*

*Half course (spring term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

Opera combines dramatic, musical, and visual experiences. It can be intensely moving as well as intellectually stimulating; it offers interior monologues and thrilling virtuosity, a private aesthetic experience and public display. It has flourished in different cultures and has served a wide variety of interests. Our main focus will be on listening to the music of five selected operas and understanding how the music shapes the drama. We shall also reflect on the dramatic content of the librettos and on the operas' historical positions. Students are encouraged to take advantage of live opera in the Boston area.

### **Literature and Arts B-78. Soundscapes: Exploring Music in a Changing World**

Catalog Number: 2093

*Kay Kaufman Shelemay*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

Many musical traditions at the turn of the 21st century cross geographic boundaries. Nowhere are diverse music traditions more prominently represented in public performance and maintained in private practice than in North America, where centuries of immigration and an increasingly multiethnic population have given rise to a complex musical environment. "Soundscapes" explores a cross-section of the different musical styles that coexist and interact in today's society, examining their relationship to their historical homelands and to their present-day settings.




**[Literature and Arts B-80. The Swing Era]**

Catalog Number: 1899

*Robert D. Levin*
*Half course (spring term). M., W., F., at 1, and a weekly section to be arranged. EXAM GROUP: 6*

Examines American jazz from the early 1930s—by which time the migration of leading musicians from New Orleans and Kansas City to Chicago, New York, and other metropolitan centers precipitated an evolution from the earlier Dixieland style—to the mid-1940s and the emergence of bebop. The essence of this period was swing—an elusive synthesis of foot-tapping rhythmic vitality with rhapsodic, soaring melodic invention. Investigates the relationship between arrangements and improvisation by comparing selected alternate takes. Considers sociological issues and the relationship of swing-era jazz to classical music and popular song, to place swing's achievements into a broader historical and musical perspective.

*Note: Expected to be given in 2006–07.*
**[Literature and Arts B-82. Sayin' Something: Jazz as Sound, Sensibility, and Social Dialogue]**

Catalog Number: 9532

*Ingrid Monson*
*Half course (fall term). M., W., at 1, and a weekly section to be arranged. EXAM GROUP: 6*

An examination of jazz improvisation as a musical and social process. Key themes are learning to listen from the “bottom of the band up” and understanding why jazz is a music that is perceived to “say something” about social issues. The social issues addressed are racial segregation, interracial encounter through music, the impact of the struggle for civil rights on the music, and the politics of aesthetic modernism in jazz. Musical examples drawn from throughout the history of the music will illustrate this ongoing dialogue between the musical and the social.

*Note: Expected to be given in 2006–07.*
***Departmental course that satisfies the Literature and Arts B requirement***

The following departmental course may be taken to meet the Literature and Arts B requirement. This course is not necessarily designed for a general audience; it may assume prior experience or more than could be expected of students seeing the subject for the first time.

**[Music 2. Foundations of Tonal Music I](#)**
***Literature and Arts C***
**[Literature and Arts C-14. Concepts of the Hero in Greek Civilization](#)**

Catalog Number: 3915

*Gregory Nagy*
*Half course (fall term). M., W., at 12, and a weekly section to be arranged. EXAM GROUP: 5*

The true “hero” of this course is the logos or “word” of logical reasoning, as activated by Socratic dialogue. The logos of dialogue requires careful thinking, realized in close reading and reflective writing. The last “word” in the course will come from Plato's memories of Socrates' last days. These memories depend on a thorough understanding of heroic concepts in all their historical varieties throughout Greek civilization. This course leads to such an understanding



through dialogues, guiding the attentive reader through many ancient Greek Classics, including works by Homer, Hesiod, Sappho, Alcman, Pindar, Theognis, Aeschylus, Sophocles, Euripides, Herodotus, and Plato.

**[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage]**

Catalog Number: 7384

*Diana L. Eck*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

An exploration of Hindu myths, images, and pilgrimages in the context of classical and modern Hindu culture. Studies the stories of the gods of India: Vishnu, Krishna, Shiva, and Devi; the heroes and heroines of the Ramayana and the Mahabharata; the temples and visual images of the gods and heroes in the classical and folk traditions; and the pilgrimages that link this mythological and artistic complex to the mountains, rivers, and cities of India.

*Note:* Expected to be given in 2006–07. For students under the Core requirement, counts as either Literature and Arts C or Foreign Cultures, but not both.

**Literature and Arts C-20. The Hero of Irish Myth and Saga**

Catalog Number: 7817

*Tomás Ó Cathasaigh*

*Half course (spring term). M., W., at 12, and a weekly section to be arranged. EXAM GROUP: 5*

A study of the ways in which the hero is represented in early Irish sources, especially in the saga literature. The texts reflect the ideology and concerns of a society which had been converted to Christianity, but continued to draw on its Indo-European and Celtic heritage. The biographies of the Ulster hero, Cú Chulainn, of his divine father, Lug, and of certain king-heroes are studied in depth. The wisdom literature, and archaeological and historical evidence will be taken into account.

*Note:* Expected to be omitted in 2006–07.

**[Literature and Arts C-22. European Culture in the Middle Ages]**

Catalog Number: 2020

*Jan Ziolkowski*

*Half course (spring term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

Studies the culture—literary, artistic, and musical—that was produced and disseminated in the Middle Ages through the fusion of classical education with Christian scriptures and liturgy. Examines major authors and texts in which this culture took shape and expressed itself (such as Augustine, *Song of Roland*, Chrétien de Troyes, *Tristan*, and Dante's *Inferno*). Relates texts to art, especially manuscript illumination.

*Note:* Expected to be given in 2006–07.

**[Literature and Arts C-25. The Medieval Stage]**

Catalog Number: 5114

*Eckehard Simon*

*Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*



Case studies of major plays from medieval Europe (mainly France and England) and how they were staged in their original settings (churches, marketplaces, streets). Examines theater as worship and revelry in monasteries and cathedrals, as an expression of emerging town culture, and as a mass medium of religious instruction. Explores the architecture of theater spaces, different stage types, the “theater” of medieval art, and the role of music. Illustrated lectures.  
*Note:* Expected to be given in 2006–07.

**[Literature and Arts C-30. How and What Russia Learned to Read: The Rise of Russian Literary Culture]**

Catalog Number: 7952

*William Mills Todd III*

*Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

An exploration in the Russian imperial period (18th–19th centuries) of the development of a secular literary tradition. Focus on institutions of literature, issues of literature and ideology, and the refraction of cultural problems in literary form. Reading of novels by Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy in social and historical context.

*Note:* Expected to be given in 2006–07. No knowledge of Russian required.

**Literature and Arts C-40. The Chinese Literati**

Catalog Number: 5226

*Peter K. Bol*

*Half course (spring term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*

Examines from literary, philosophical, and historical perspectives the creation in later imperial China of an enduring national culture, which flourished through dynastic change and foreign conquest. Particular attention is given to the role of the literati and their work as poets, essayists, novelists, painters, moral philosophers, and political thinkers. Themes include the relation of culture to political authority, the search for grounds for individual responsibility, the literary and artistic representation of the self, growing ambivalence toward political service, and the rise of individualism. Introduces Chinese approaches to interpreting literary, artistic, and philosophical works.

*Note:* Expected to be omitted in 2006–07. For students under the Core requirement, counts as either Literature and Arts C or Historical Study B, but not both.

**Literature and Arts C-42. Constructing the Samurai**

Catalog Number: 3743

*Harold Bolitho*

*Half course (fall term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Examines the rise and fall of Japan’s warrior class and of the *bushido* ethos. Concentrates on two interrelated themes: the historical reality and the construction of a mythology—both positive and negative—in Japanese popular culture and the Western imagination. Themes will include warfare, training, religion, values, art, literature, and family life. Visual materials will be used extensively.

*Note:* For students under the Core requirement, counts as either Literature and Arts C or Historical Study B, but not both.



**[Literature and Arts C-43. The Medieval Court]**

Catalog Number: 5794

*Eckehard Simon*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

In the High Middle Ages (1100–1250), the European aristocracy created a court culture that became a permanent part of the Western heritage. We study this civilization by reading its greatest literature: the Roland epic, lyrics of the troubadours and minnesingers, the tales of Marie de France, the Arthurian and grail-quest romances of Chrétien and Wolfram, Gottfried's *Tristan*. To probe the complex interrelationship between literature and life, we look, in slide lectures, at the historical context: lordship society, castles and castle life, women and marriage, "courtly love," knights and chivalry, court art, major courts, notable lives.

*Note:* Expected to be given in 2007–08.

**Literature and Arts C-50. Russian Imperial Masterworks and Their Post-Histories**

Catalog Number: 2786

*Julie A. Buckler*

*Half course (fall term). M., W., (F.), at 1, and a weekly section to be arranged. EXAM GROUP: 6*

Investigates major works of imperial Russian culture (literary, architectural, musical, theatrical) as products of their original historical contexts and in terms of their on-going life as acknowledged "masterworks" in Russia and the West. Works include Rastrelli's Winter Palace, Falconet's monument to Peter the Great, Pushkin's *The Bronze Horseman*, Dostoevsky's *Notes From the Underground*, Tolstoy's *War and Peace*, Mussorgsky's *Boris Godunov*, Tchaikovsky's *Swan Lake*, Chekov's *Uncle Vanya*, and Bely's *Petersburg*, as well as the imperial capital city of St. Petersburg itself. How have these masterworks been variously renewed and reinterpreted since their initial reception?

*Note:* Expected to be omitted in 2006–07.

**Literature and Arts C-51. Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde**

Catalog Number: 6984

*John E. Malmstad*

*Half course (spring term). M., W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

An introduction to the radical transformations of Russian culture between 1890–1930, with particular attention to the "isms," avant-garde and otherwise, that shaped society and the arts during a period of rapid modernization and experimentation: Symbolism, Futurism, Cubo-Futurism, Suprematism, Constructivism. Focuses on developments in literature, art, music, ballet, and film, their interaction and relation to the historical context.

*Note:* Expected to be omitted in 2006–07. All readings in English. For students under the Core requirement, counts as either Literature and Arts C or Foreign Cultures, but not both.

**[Literature and Arts C-55. Surrealism: Avant-Garde Art and Politics between the Wars]**

Catalog Number: 7818

*Susan R. Suleiman*



*Half course (fall term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

An overview of Surrealism in the context of European culture and politics of the 20th century. Focus on major works of writers, artists, and filmmakers associated with the Surrealist movement, chiefly in the period between the two world wars; some attention also paid to earlier works and movements, and to the influence of and reactions to Surrealism after 1945. Discussion of works by Breton, Aragon, Tzara, Lautréamont, Artaud, Eluard, Carrington, Bunuel and Dali, Dulac, Magritte, Tanning, Ernst, Man Ray, Bellmer, and others.

*Note:* Expected to be given in 2006–07.

### **[Literature and Arts C-56. Putting Modernism Together]**

Catalog Number: 8437

*Daniel Albright*

*Half course (fall term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Just as a pine or a willow is known from the shape of its branching, so human culture can be understood as a growth-pattern, a ramifying of artistic, intellectual, and political action. This course tries to find the center of the Modernist movement (1872–1927) by studying the literature, music, and painting of the period, to see whether some congruence of effort in all these media can be found. By looking at the range of artistic production in a few key years, we come to know this age of aesthetic extremism, perhaps unparalleled in Western history.

*Note:* Expected to be given in 2006–07.

### **Literature and Arts C-61. The Rome of Augustus**

Catalog Number: 1101

*R. J. Tarrant*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Roman culture and society in a period of radical transformation, the lifetime of the first emperor, Augustus (63 BCE–14 CE). Focuses on the interplay between a new set of political realities and developments in literature, the visual arts, and the organization of private and social life. Readings (all in translation) from Catullus, Cicero, Virgil, Horace, Livy, Propertius, Ovid, and Tacitus, with special attention to the two great masterworks of the period, Virgil's *Aeneid* and Ovid's *Metamorphoses*. Most lectures illustrated with slides.

*Note:* For students under the Core requirement, counts as either Literature and Arts C or Historical Study B, but not both.

### **[Literature and Arts C-65. Repression and Expression: Literature and Art in *Fin-de-siècle* Germany and Austria]**

Catalog Number: 4312

*Peter J. Burgard*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

Examines German and Austrian literature and art of the period 1880–1920 in terms of gender, sexuality, and language. Begins with readings of Nietzsche and Freud that establish the thematic parameters of investigation and that enable an understanding of the extent to which this period in cultural history is grounded in their ideas. Discussions of individual texts and paintings focus on



how problems of gender, sexuality, and language both intersect and reflect one another in the literature and art of the age. Readings include Nietzsche, Freud, Wedekind, Schnitzler, Hofmannsthal, Mann, Musil, Kafka. Artists include Klimt, Schiele, Kokoschka, Kirchner, Marc, Kandinsky.

*Note:* Expected to be given in 2006–07. No knowledge of German required.

### **[Literature and Arts C-67. The German Colonial Imagination]**

Catalog Number: 9369

*Judith Ryan*

*Half course (fall term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*  
Representations of German colonialism in fiction and film. Consideration of the following topics: Bismarck's colonial policies, late 19th-century critiques of colonialism, controversies about the notion of the noble colonist, turn-of-the-century legal debates, National Socialism and its attempts to revive the idea of German colonialism, recent critiques of German colonialism.  
*Note:* Expected to be given in 2006–07.

### **Literature and Arts C-70. From the Hebrew Bible to Judaism, From the Old Testament to Christianity**

Catalog Number: 5275

*Shaye J.D. Cohen*

*Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

The Hebrew Scriptures, what Christians call the "Old Testament" and Jews call the "Bible," are the basis of both Judaism and Christianity. In this course we shall survey how this work of literature, through interpretation and re-interpretation, spawned two different cultural systems. Topics to be surveyed include: canon and prophecy; exegesis and *Midrash*; Shabbat and Sunday; temple, synagogue, church; the Oral Torah and the Logos; sin and righteousness; messiah and redemption.

### ***Cross-listed Core course that satisfies the Literature and Arts C requirement***

The following course fully listed in the Historical Study B area of the Core Curriculum may be taken to meet the Core requirement in Literature and Arts C or in Historical Study B, but not both.

### **Historical Study B-19. The Renaissance in Florence**

### ***Departmental courses that satisfy the Literature and Arts C requirement***

The following departmental courses may be taken to meet the Literature and Arts C requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

### **English 167p. Postcolonial Narratives**

### **English 177. Art and Thought of the Cold War**

## *Moral Reasoning*





## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The common aim of courses in Moral Reasoning is to discuss significant and recurrent questions of choice and value that arise in human experience. They seek to acquaint students with the important traditions of thought that have informed such choices in the past and to enlarge the students' awareness of how people have understood the nature of the virtuous life. The courses are intended to show that it is possible to reflect reasonably about such matters as justice, obligation, citizenship, loyalty, courage, and personal responsibility.

### ***Moral Reasoning***

#### **[Moral Reasoning 17. Democracy and Inequality]**

Catalog Number: 6085

*Harvey C. Mansfield*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

In what ways are we equal, in what ways unequal or different? Which are more essential? How much should moral reasoning be guided by our equality, how much by inequality? Can democracy do justice to both? These questions are considered and answered by reading Plato's *Republic*, Hobbes' *Leviathan*, and Tocqueville's *Democracy in America*: three beautiful books presenting the best argument for aristocracy, the most realistic basis for equality, and the best analysis of democracy.

*Note: Expected to be given in 2006–07.*

#### **Moral Reasoning 22. Justice**

Catalog Number: 3753

*Michael J. Sandel*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

A critical analysis of selected classical and contemporary theories of justice, with discussion of present-day practical applications. Topics include affirmative action, income distribution, same-sex marriage, free speech vs. hate speech, debates about rights (human rights and property rights), arguments for and against equality, debates about political obligation and the claims of community. Readings include Aristotle, Locke, Kant, Mill, and Rawls.

#### **Moral Reasoning 28. Ethics and International Relations**

Catalog Number: 0642

*Stanley Hoffmann*

*Half course (fall term). Tu., Th., 2–3:30 and a weekly section to be arranged. EXAM GROUP: 16, 17*

Is ethical action in international affairs possible—or does the absence of global moral consensus and a central world government doom states and citizens to the amoral pursuit of clashing national interests? The course considers contrasting arguments by philosophers and social thinkers (e.g., Thucydides, Machiavelli, Kant, and Weber) as well as specific issues in contemporary international politics: intervention and the use of force, the morality of nuclear deterrence, human rights, distributive justice, and the moral responsibilities of leaders and citizens.

*Note: Expected to be omitted in 2006–07.*



### **Moral Reasoning 33. Issues in Ethics**

Catalog Number: 2255

Thomas M. Scanlon, Jr.

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

Is pleasure the only ultimate good? Are individuals' preferences the only basis for assessing the quality of their lives? What makes acts wrong? Is moral blame applicable only to agents who have free will? Should we accept moral relativism? Readings mainly from contemporary philosophers.

*Note:* Expected to be omitted in 2006–07.

### **Moral Reasoning 50. The Public and the Private in Politics, Morality, and Law**

Catalog Number: 1262

Glyn Morgan

*Half course (spring term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

The line between what is considered “private” and what belongs to the “public” varies culturally, historically, and socially. The aim of the class is to introduce students to central issues in Western moral, legal, and political thought by examining the ways that this distinction has been drawn and justified by major thinkers. The class also discusses a number of contemporary controversies concerning the public/private divide, including abortion, contraception, private schools, racial and genetic profiling, and cyberspace. Readings will include Plato, Augustine, Hobbes, Rousseau, John Stuart Mill, Robert Nozick, John Rawls, and Michel Foucault.

*Note:* Expected to be omitted in 2006–07.

### **Moral Reasoning 54. “If There is No God, All is Permitted”: Theism and Moral Reasoning**

Catalog Number: 1321

Jay M. Harris

*Half course (spring term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

This course will examine the ways in which a concept of God has informed Western moral discourse trying to help students engage the literature as they consider why one might think “if there is no God, all is permitted” and why one might think if there is a God, human moral achievement is impossible.

*Note:* Expected to be omitted in 2006–07.

### **Moral Reasoning 56. Self, Freedom, and Existence**

Catalog Number: 6507

Richard Moran

*Half course (spring term). M., W., (F.), at 2, and a weekly section to be arranged. EXAM GROUP: 7*

How is human freedom possible? Does acting freely mean acting in accordance with reasons or acting arbitrarily, or neither? Are values chosen, discovered, or invented? How is self-knowledge possible and how is it different from the knowledge of others? Specific issues to be discussed include: self-deception and bad faith; the nature of freedom and autonomy; subjectivity and our relation to others; rationality and irrationality. Readings, which will provide an introduction to a few of the major texts of Existentialism, will be drawn from Kant, Sartre, Dostoevsky, and



various contemporary writers.

*Note:* Expected to be omitted in 2006–07.

### **Moral Reasoning 58. Slavery in Western Political Thought**

Catalog Number: 8892

*Richard Tuck*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

The ownership of one man by another is an obvious and profound affront to many of our fundamental ideas about morality, and yet for much of human history it was defended—and often by the greatest moral and political philosophers. How was this possible? The course will trace the theme of slavery through the arguments of political theorists from the ancient world to the present and will study the way in which the rejection of slavery became intellectually possible. These theoretical arguments will be considered in the context of the changing history of slavery as an institution.

### **[Moral Reasoning 64. Ethics and Everyday Life]**

Catalog Number: 7803

*Russell Muirhead*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

How should I live? Can moral reasoning help us answer this, or is it restricted to a smaller part of life? Topics include the ethics-morality distinction, the examined life, virtue ethics, and rights morality, with special attention on issues of work and family such as work ethic, alienation, ideals of family, and same-sex marriage. Readings from Plato, Aristotle, Locke, Kant, Weber, and contemporary writers.

*Note:* Expected to be given in 2006–07.

### **Moral Reasoning 66. Moral Reasoning about Social Protest**

Catalog Number: 7778

*Susanna Siegel*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

An examination of moral questions that arise in the context of social protest in the US during the 20th century, including the central question of political philosophy: How can political authority be justified? After studying the Attica prison revolt of 1971, we will consider the following questions: Is there an obligation to obey the law? What, if any, are the moral limits to this obligation? Can civil disobedience be justified, and does it always need to be? Texts include classic excerpts from Plato, Hobbes, Rawls, and Marx.

### **[Moral Reasoning 68. Legalism: Ruly and Unruly Thought and Practices]**

Catalog Number: 1631

*Nancy Lipton Rosenblum*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

“Legalism” refers to rule-making, rule-following, and legal reasoning. This course considers the



omnipresence of legalism in every aspect of our lives—from criminal due process to Harvard course requirements to the rules made and enforced by voluntary associations like the Boy Scouts. We will explore: the distinctive characteristics of legalistic modes of thought; moral justifications offered for legalism; moral objections to legalism and the power of romantic resistance to rule-making and rule-following; and what happens when the various systems of law under which we live conflict. Readings from literature, court cases, and moral and political theory.

*Note:* Expected to be given in 2006–07.

### **[Moral Reasoning 70. Rights]**

Catalog Number: 6413

*Sharon R. Krause*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

This course investigates the meaning and moral significance of rights in contemporary liberal societies and considers how a rights-based ethic affects our broader understanding of morality and political life. We shall compare different philosophical justifications for rights within the tradition of classical liberalism; examine several classical and contemporary critiques of rights; and engage in current debates in ethics and politics as to the scope, content, and application of rights in the US and in the international context. Readings are drawn from classical and contemporary thinkers in moral and political philosophy.

*Note:* Expected to be given in 2006–07.

### **[Moral Reasoning 74. The Theory and Practice of Republican Government]**

Catalog Number: 1489

*Daniel P. Carpenter*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

A theoretical and historical survey of the evolution of republican (representative) government, with a particular focus upon Anglo-American institutions. We will alternate between philosophical treatments and empirical studies of republican regimes. Questions include: How did republican government evolve centuries before mass elections? Did arguments for legislative supremacy prefigure the rise of parliamentary authority? If so, how? What is the role of virtue in a democratic republic? How can government ensure the “rule of the wise” without fostering autocratic power? What institutions besides elections keep the ruled attuned to the people? What critique might republican theory advance of emerging “populist” arrangements?

*Note:* Expected to be given in 2006–07.

### ***Departmental course that satisfies the Moral Reasoning requirement***

The following departmental course may be taken to meet the Moral Reasoning requirement. This course is not necessarily designed for a general audience; it may assume prior experience or more than could be expected of students seeing the subject for the first time.

### **[Philosophy 168. Kant’s Ethical Theory](#)**



## Quantitative Reasoning

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The aim of courses in this area is to introduce students to mathematical and quantitative modes of thought. Some courses emphasize theoretical aspects of mathematics or statistical reasoning: a course on number theory or deductive logic, for example, would fall under this heading. Other courses in this area explore the application of quantitative methods to questions in the natural sciences, social sciences, or humanities: courses on making decisions under uncertainty, or on analyzing demographic trends are examples of such applications.

#### Quantitative Reasoning

##### Quantitative Reasoning 20. Computers and Computing

Catalog Number: 5430

William H. Bossert

*Half course (spring term). M., W., F., at 9, and a weekly section to be arranged. EXAM GROUP: 2*

An algorithm is an unambiguously stated procedure for accomplishing a specific task on the basis of the given information in a given environment. The term is often associated with computer programs. The course will examine a number of algorithms with regard to their design and analysis of their relative efficiency. A central theme is the close interaction between the form of an algorithm and the representation and format of information with which it works. Students will learn to design and implement programs of modest complexity in a modern programming language.

*Note:* Previous programming experience is not required.

##### Quantitative Reasoning 22. Deductive Logic

Catalog Number: 2508

Warren Goldfarb

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

The concepts and principles of symbolic logic: valid and invalid arguments, logical relations of statements and their basis in structural features of those statements, the analysis of complex statements of ordinary discourse to uncover their structure, the use of a symbolic language to display logical structure and to facilitate methods for assessing arguments. Analysis of reasoning with truth-functions (“and”, “or”, “not”, “if...then”) and with quantifiers (“all”, “some”). Attention to formal languages and axiomatics, and systems for logical deduction. Throughout, both the theory underlying the norms of valid reasoning and applications to particular problems will be investigated.

*Note:* Expected to be omitted in 2006–07.

##### Quantitative Reasoning 24. Health Economics and Policy

Catalog Number: 4667

David M. Cutler

*Half course (fall term). Tu., Th., 10–11:30; and a weekly section to be arranged. EXAM GROUP: 12, 13*



Analysis of the medical care system is fundamental to economics and other social sciences, as well as many professional schools. This course uses quantitative methods (graphical analysis, algebra, survey design) to examine health and medical systems. Topics to be covered include rich and poor country health, medical systems, and policy responses. Techniques, including the required use of a computer spreadsheet, will be developed and demonstrated in class and section.

### **Quantitative Reasoning 28. The Magic of Numbers**

Catalog Number: 4764

*Barry C. Mazur and Noam D. Elkies*

*Half course (fall term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

This course will explore the beauty and mystery of mathematics through a study of the patterns and properties of the natural numbers 1, 2, 3, .... We discuss various special classes of numbers, such as prime numbers, factorials, and binomial coefficients, and the many ways they arise in mathematics. We will discuss questions in probability (such as: the likelihood that two people in a class of 25 have the same birthday). We also study modular arithmetic and secret codes based on it.

*Note:* No mathematical background beyond high school algebra assumed. Emphasis is placed on discovery through conjecture and experimentation.

### **Quantitative Reasoning 32. Uncertainty and Statistical Reasoning**

Catalog Number: 2228

*Carl N. Morris*

*Half course (fall term). Tu., Th., 10–11:30, and a weekly section to be arranged. EXAM GROUP: 12, 13*

Individuals continually must make decisions under uncertainty in their personal and in their professional lives. This course develops probability as the appropriate language for describing uncertainty and shows how statistical data and planned studies can be crucial when evaluating probabilities and associated risks. Students will learn how others think about uncertainty and risk and how better to assess uncertainty in their own lives. The course introduces concepts and the language of probability and statistics with an emphasis on its relationship to quantifying uncertainty for use in daily life. Examples will be drawn from the media, science, law, medicine, and government.

*Note:* Expected to be omitted in 2006–07.

### **[Quantitative Reasoning 33. Causal Inference]**

Catalog Number: 0424

*Donald B. Rubin*

*Half course (spring term). Tu., Th., 11:30–1, and a weekly section to be arranged. EXAM GROUP: 13, 14*

Do private schools do a better job than their public counterparts? Does the existence of the QRR improve the quantitative literacy of the undergraduates at Harvard? Such questions dominate many decision-making processes, but only rarely are their “answers” based on the careful collection and analysis of empirical data. This course confronts such causal questions and how to reach inferentially valid answers that summarize uncertainty using formal probabilistic statements.

*Note:* Expected to be given in 2006–07.





**[Quantitative Reasoning 34. Counting People]**

Catalog Number: 4329

*Peter T. Ellison*

*Half course (spring term). Tu., Th., 1:30–3, and a weekly section to be arranged. EXAM GROUP: 15, 16*

The size, composition, distribution, and dynamics of human populations arise as important variables in many domains of inquiry spanning traditional academic boundaries, including sociology, history, economics, government, public health, and environmental science. This course seeks to introduce students to the field of human demography as both an area of study and a mode of inquiry. Emphasis is placed on understanding the methods by which inferences concerning the nature, distribution, and dynamics of human populations are made. Students analyze real demographic data from a country of their choice.

*Note:* Expected to be given in 2006–07.

**[Quantitative Reasoning 36. Statistics and Public Policy]**

Catalog Number: 7412

*Christopher Winship*

*Half course (spring term). M., W., F., at 9, and a weekly section to be arranged. EXAM GROUP: 2*

Statistics are used ubiquitously in the support of various public policy claims. The purpose of this course is to examine the statistical methods used in making such claims and understand their potential strengths and weaknesses. The course examines Sampling, Characteristics of Distributions, Basic Probability, Statistical Reference, Measurement and Scaling, Measures of Association, Experiments, Quasi-Experiments, and Causal Inference. The goal is to acquire a clear, conceptual understanding of methods as opposed to the ability to manipulate formulas.

*Note:* Expected to be given in 2007–08.

**[Quantitative Reasoning 38. The Strategy of International Politics]**

Catalog Number: 7119

*Lisa L. Martin*

*Half course (spring term). Tu., Th., 10–11:30, and a weekly section to be arranged. EXAM GROUP: 12, 13*

International politics is often about strategic interaction among states. When governments make choices about economic, military, or environmental policies, they take into account the likely responses and actions of others. This course introduces the logic of strategic interaction by way of game theory. The principles of game theory are introduced, and students learn how to solve simple games. Mathematical topics covered include probabilities, set theory, linear equations, and quadratic equations. The games are motivated and illustrated with examples drawn from international politics. The logic and techniques developed in this class have wide applications outside the field of international relations.

*Note:* Expected to be given in 2006–07.

**[Quantitative Reasoning 43. Introduction to Investments]**

Catalog Number: 4629

*John Y. Campbell*

*Half course (fall term). Tu., Th., 10–11:30, and a weekly section to be arranged. EXAM*



*GROUP: 12, 13*

This course introduces students to the basic mathematical tools and economic concepts needed to analyze financial investments. The course discusses the measurement of asset prices and returns, arbitrage, interest rates and discounting, quantitative measures of risk, portfolio choice, risk management, and derivative securities. Students are asked to apply these ideas to real financial data.

*Note: Expected to be given in 2006–07.*

### **[Quantitative Reasoning 46. The Visual Display of Information: The Art of Numbers]**

Catalog Number: 9479

*Alyssa A. Goodman*

*Half course (spring term). Tu., Th., 1–2:30, and a weekly section to be arranged. EXAM*

*GROUP: 15, 16*

This course focuses on the insight into quantitative information offered by graphs, tables, charts, maps, and other illustrations. We analyze which of these tools are best for communicating what kinds of data, and why. Ideas about causality, approximation, statistical significance, credibility, and dimensionality will be addressed by analyzing real data and their display. The data will be drawn from medical, astronomical, social-science, aerospace, financial, and geographic examples. Approximately one-quarter of the course will focus on web and live presentations of data. Much of the course's philosophy is based on the work of Edward Tufte.

*Note: Expected to be given in 2006–07.*

### **Quantitative Reasoning 48. Bits**

Catalog Number: 2793

*Harry R. Lewis*

*Half course (spring term). M., W., F., at 11, and a weekly section to be arranged. EXAM*

*GROUP: 4*

Information as quantity, resource, and property. Application of quantitative methods to understanding how information technologies inform issues of public policy, regulation, and law. How are music, images, and telephone conversations represented digitally, and how are they moved reliably from place to place through wires, glass fibers, and the air? Who owns information, what forms of regulation and law restrict the communication and use of information, and does it matter? How can secrets and personal privacy be protected at the same time as society benefits from communicated or shared information?

*Note: Mathematical methods will be developed in the context of the course material. No mathematical background beyond high-school algebra is required.*

### **Quantitative Reasoning 50. Medical Detectives**

Catalog Number: 5707

*Karin B. Michels (Public Health, Medical School)*

*Half course (fall term). M., W., F., at 9, and a weekly section to be arranged. EXAM GROUP: 2*

Why is there confusion in the scientific community as to whether butter or margarine is worse for your health? How do epidemiologists find out whether cell phone use increases your risk for brain cancer? What is your risk of contracting colon cancer? Discover how researchers draw on quantitative skills to detect causes of acute disease outbreaks and chronic diseases. This course



introduces the techniques and methods for empirically based analyses, decisions, and actions in the context of current public health problems.

***Departmental courses that satisfy the Quantitative Reasoning requirement***

The following departmental courses may be taken to meet the Quantitative Reasoning requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

[Applied Mathematics 21a. Mathematical Methods in the Sciences](#)  
[Computer Science 50. Introduction to Computer Science I](#)  
[Mathematics 1a. Introduction to Calculus](#)  
[Mathematics 1b. Calculus, Series, and Differential Equations](#)  
[Mathematics 19. Mathematical Modeling](#)  
[Mathematics 20. Introduction to Linear Algebra and Multivariable Calculus](#)  
[Mathematics 21a. Multivariable Calculus](#)  
[Mathematics 21b. Linear Algebra and Differential Equations](#)  
[Mathematics 23a. Theoretical Linear Algebra and Multivariable Calculus I](#)  
[Mathematics 23b. Theoretical Linear Algebra and Multivariable Calculus II](#)  
[Mathematics 25a. Honors Multivariable Calculus and Linear Algebra](#)  
[Mathematics 25b. Honors Multivariable Calculus and Linear Algebra](#)  
[\\*Mathematics 55a. Honors Advanced Calculus and Linear Algebra](#)  
[Mathematics 55b. Honors Advanced Calculus and Linear Algebra](#)  
[Statistics 100. Introduction to Quantitative Methods](#)  
[\[Statistics 101. Introduction to Quantitative Methods\]](#)  
[Statistics 102. Fundamentals of Biostatistics](#)  
[Statistics 104. Introduction to Quantitative Methods](#)  
[Statistics 110. Introduction to Probability](#)

***The following departmental courses taken together may be used to meet the Quantitative Reasoning requirement.***

[Mathematics Xa. Introduction to Functions and Calculus I](#)  
[Mathematics Xb. Introduction to Functions and Calculus II](#)

## Science

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The common aim of the courses in Science is to explore the phenomena, ways of observing and understanding them, theories that synthesize them, and the undergirding methodology that, taken together, result in the scientific perception of our world. This world encompasses the very small—elementary particles, nuclei, atoms, molecules, genes, and cells; the very large—the Earth, the solar system, and the universe; and living things, including human beings in the past and present. Each course addresses one or several of these topics in some depth. Students participate by solving problems, and by observing or by experimenting in the laboratory. This exposure helps to develop scientific literacy and numeracy, thereby leading to a better



understanding of today's technologically and scientifically oriented society.

### *Science A*

Courses in this section, largely concerned with the physical sciences, deal with the analysis of natural phenomena through quantitative descriptions and synthesis of their simple elements.

### *Science B*

Courses in this section, emphasizing biological, evolutionary, and environmental science, present semiquantitative and frequently descriptive accounts of complex systems that cannot yet be fully analyzed on the basis of their simple elements.

### ***Science A***

#### **[Science A-24. The Dynamic Earth]**

Catalog Number: 3744 Enrollment: Limited to 100.

*Richard J. O'Connell*

*Half course (spring term). M., W., F., at 10, a weekly section to be arranged, and one three-day camping field trip during Reading Period. EXAM GROUP: 3*

A discussion of physical processes that formed the Earth and govern its continuing evolution. How internal workings shape the planet's surface, producing volcanism, earthquakes, and the uplift of mountains. The course describes the theory of plate tectonics; reviews the observations and phenomena that led to the hypothesis; describes methods of deducing the present state, composition, and structure of the Earth's interior; discusses the age and the thermal state of the Earth and the evidence for the flow and mobility of the interior. Students are encouraged to think critically, and to appreciate the uncertainties in current models and hypotheses.

*Note: Expected to be given in 2006–07.*

#### **Science A-29. The Nature of Light and Matter**

Catalog Number: 1706

*Roy J. Glauber*

*Half course (spring term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

Explores the ultimate nature of light and develops closely related insights into the structure of matter. An excursion through the physical world that proceeds by means of colorful lecture demonstrations drawn from several areas of optics, acoustics, electricity, and magnetism. The course concentrates on describing natural laws in terms of vivid and useful images emphasizing, for example, the common features of musical instruments, broadcast transmitters, and radiating atoms. The behavior of waves of various sorts is used to explain the fundamentals of modern communication techniques and to illustrate the limitations imposed on our knowledge by the uncertainty principle.

#### **Science A-30. The Atmosphere**

Catalog Number: 0477 Enrollment: Limited to 60.

*Steven C. Wofsy and Daniel J. Jacob*



*Half course (spring term). Tu., Th., 9–10:30. EXAM GROUP: 11, 12*

The physical and chemical processes that regulate climate and the composition of the atmosphere are introduced, including mechanics, thermodynamics, radiation, and chemical kinetics.

Atmospheric temperature and precipitation, weather and climate, human activity as a factor for change, influence of carbon dioxide from fossil fuel on the climate, modification of stratospheric ozone by industrial chemicals, air pollution, acid rain.

### Science A-35. Matter in the Universe

Catalog Number: 5923 Enrollment: Limited to 325.

*Robert P. Kirshner*

*Half course (spring term). Tu., Th., 12–1:30, and a weekly section to be arranged. EXAM GROUP: 14, 15*

The nature and history of matter revealed by astronomical observation and experimental physics. Explores the Big Bang and models of the universe, stellar evolution and supernova explosions, evidence for invisible matter, and the development of structure in the universe. Demonstrates the physical principles used to interpret astronomical data and to construct a model for the evolution of the universe on the microscopic and cosmic scales. Examines the way microscopic properties of matter determine properties of people, stars, galaxies, and the universe as a whole.

### Science A-36. Observing the Sun and the Stars

Catalog Number: 4775

*Jonathan E. Grindlay*

*Half course (fall term). Tu., Th., 11:30–1, and two one-hour laboratory sessions (daytime and evening) to be arranged. EXAM GROUP: 13, 14*

Direct observations of the Sun and the stars, to learn how we can understand the Galaxy and the Universe from stars, the basic building blocks. Students conduct visual observations to measure apparent motions of the Sun and stars, laboratory experiments with light and spectra, and make telescopic observations of the Sun and stars using modern instrumentation to explore their energy output, relative distances, temperatures and chemical composition, and something of their life histories. Lectures and readings discuss the physical nature and evolution of stars as well as how stars are organized in our Milky Way Galaxy, and in the Universe.

### Science A-39. Time

Catalog Number: 0077

*Gary J. Feldman*

*Half course (fall term). Tu., Th., 1:30–3, and a weekly section to be arranged. EXAM GROUP: 15, 16*

Studies the evolution, over the past three centuries, of our concept of time and of related questions, such as the predictability of the future. Newtonian mechanics envisions a universal time, symmetric between past and future. The distinction between past and future emerges in the 19th century from considerations of statistical processes. In the 20th century, the theory of relativity forces fundamental changes in the concept of time. Time ceases to be universal and becomes entangled with space and gravity. Quantum mechanics limits the predictability of the future and introduces verified effects so weird that Einstein wrote of them, “No reasonable definition of reality could be expected to permit this.”



*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Some knowledge of secondary school physics useful, but not required.

### **[Science A-41. The Einstein Revolution]**

Catalog Number: 3581

*Peter L. Galison*

*Half course (spring term). Tu., Th., 9–10:30, and a 90-minute weekly section to be arranged.*

*EXAM GROUP: 11, 12*

Albert Einstein has become the icon of modern science. Following his scientific, cultural, philosophical, and political trajectory, this course aims to track the changing role of physics in this century. Addresses Einstein and his engagement with relativity, quantum mechanics, Nazism, nuclear weapons, philosophy, and technology, and raises basic questions about what it means to understand physics and its history.

*Note:* Expected to be given in 2006–07.

### **Science A-43. Environmental Risks and Disasters**

Catalog Number: 6001

*Göran Ekström*

*Half course (fall term). M., W., F., at 11, and a 90-minute weekly section to be arranged. EXAM GROUP: 4*

An introduction to risks in the environment. Different types of hazards are analyzed and compared: natural disasters, such as tornados, earthquakes, and meteorite impacts; adverse health effects caused by exposure to radiation and toxic substances such as radon, asbestos, and arsenic; long-term effects due to environmental change, such as sea level rise and global warming. Emphasizes the basic physical principles controlling the hazardous phenomena and develops simple quantitative methods for making scientifically reasoned assessments of the threats posed by hazardous events, processes, and exposures. Discusses methods of risk mitigation and sociological, psychological, and economic aspects of risk control and management.

### **Science A-45. Reality Physics**

Catalog Number: 4562

*Gerald Gabrielse*

*Half course (spring term). M., W., 12–1:30, and a weekly section to be arranged. EXAM GROUP: 5, 6*

What flows from electrical wall sockets, cell phones, and power lines? What are the risks? How do magnetic resonance imaging, X-rays, and CT scans take pictures within our bodies, and with what danger? What are the lasers that inhabit grocery store checkout counters and CD players? What are atomic clocks? How have they and GPS satellites revolutionized navigation for backpackers and ships? How does Einstein's famous formula describe the energy release from nuclei? What are nuclear reactors and nuclear waste? This quantitative study of the physics of daily life is intended to enable more informed choices in our society.

*Note:* Expected to be omitted in 2006–07.

### **Science A-47. Cosmic Connections**

Catalog Number: 6940

*David Charbonneau*





*Half course (fall term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3*  
 This course will examine the origin and evolution of stars and planets, and will consider connections between astronomical events and the conditions that seem necessary for life to develop. The underlying theme is that humans are a part of an evolving Universe and that our presence is linked to the cosmos at large. To tell this story, we must talk about how the Earth and the Sun came about, and ultimately how the Milky Way and the Universe were created.

### **Science A-49. The Physics of Music and Sound**

Catalog Number: 8987

*Eric J. Heller and John Huth*

*Half course (fall term). M., W., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 6, 7*

Sound and music are integral parts of all human cultures, and play critical roles in communications and social interactions. In this course, we explore the science of the production, transmission, and perception of sound, with the aim of expanding both scientific and artistic horizons. Topics will include the nature of vibrations, resonance, interference, harmony, dissonance, musical instruments, and human auditory response. Principles of physics are slowly worked into the course as topics arise. The mathematical background of students is assumed to be at the level of high school algebra and trigonometry.

### **Science A-50. Invisible Worlds: Micro- and Nanothings. Science, Technology, and Public Policy**

Catalog Number: 5565

*George M. Whitesides and Mara Prentiss*

*Half course (fall term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3*

What we perceive as “reality” is the best effort of our senses to interpret a deeper, largely invisible, reality that is unnervingly strange. This course will survey the world of very small things, objects with dimensions of nanometers and micrometers. The behaviors of these objects are often entirely counterintuitive; they can also be quite useful. Micro- and nanostructures are the basis both of fundamentally new science, and of ubiquitous technologies: quantum dots, computers, the biological nanomotors that power muscle, buckyballs, tools for examining single mammalian cells, lasers. The course will describe these objects and how they function; it will also touch on issues of commercialization, economics, public policy, and ethics that spring from the avalanche of discovery and invention in this area.

### **Science A-52. Energy, Environment, and Industrial Development**

Catalog Number: 1387

*Frederick H. Abernathy and Michael B. McElroy*

*Half course (spring term). M., W., 1:30–3, and a weekly section to be arranged. EXAM GROUP: 6, 7*

Uses the historical background of industrial development from the New England industrial revolution as the framework for studying the technical aspects of succeeding waves of industrial development. Study and understanding of the underlying technologies will develop the technical knowledge and computational skills to prepare citizens to make informed numerical estimates of energy use and environmental consequences of current and proposed energy and industrial systems. Principles of physics and chemistry are worked into the course as dictated by the topics.



*Prerequisite:* Students are expected to have a background of high school algebra and trigonometry.

**Science A-54. Life as a Planetary Phenomenon**

Catalog Number: 5680 Enrollment: Limited to 60.

*Andrew H. Knoll and Dimitar D. Sasselov*

*Half course (spring term). Tu., Th., 11:30–1, and a weekly section to be arranged. EXAM*

*GROUP: 13, 14*

This course considers the relationship between life and the planet on which it resides. It examines the scientific quest to understand where life might thrive beyond Earth. On Earth, life was born of planetary processes and has been sustained by plate tectonics and other physical processes. Through evolution, life has in fact emerged as major influence on our planet's surface. Fundamental features of terrestrial life and evolution are addressed in the context of astronomy, planetary physics and chemistry. These, in turn, provide a basis for the exploration for other habitable planets, both within our solar system and in the greater universe.

***Departmental courses that satisfy the Science A requirement***

The following departmental courses may be taken to meet the Science A requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

**Chemistry 5. Introduction to Principles of Chemistry**

**Chemistry 7. Principles of Chemistry**

**[Chemistry 15. Inorganic Chemistry]**

**Chemistry 17. Principles of Organic Chemistry**

**Chemistry 20. Organic Chemistry**

**Chemistry 27. Organic Chemistry of Life**

**Chemistry 30. Organic Chemistry**

**Earth and Planetary Sciences 5. Introduction to Environmental Science: Atmosphere, Ocean, and Biosphere**

**Earth and Planetary Sciences 7. Introduction to Geological Sciences**

**Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology**

**Physics 11a. Mechanics**

**Physics 11b. Electricity, Magnetism, and Waves**

**Physics 15a. Introductory Mechanics and Relativity**

**Physics 15b. Introductory Electromagnetism**

**Physics 15c. Wave Phenomena**

**Physics 16. Mechanics and Special Relativity**

***The following departmental courses taken together may be used to meet the Science A requirement.***

**Physics 1a. Principles of Physics: Mechanics**

**Physics 1b. Principles of Physics: Electricity and Magnetism, Circuits and Optics**



## **Science B**

### **Science B-23. The Human Organism**

Catalog Number: 6581

*Joseph D. Brain (Public Health), Stephanie A. Shore (Public Health), and Richard L. Verrier (Medical School)*

*Half course (spring term). M., W., F., at 12, plus two two-hour laboratories and periodic section meetings to explore special topics in depth. EXAM GROUP: 5*

The physiology and pathophysiology of the human body will be presented with special emphasis on cardiovascular, respiratory, endocrine, and reproductive biology. Besides learning human biology, students will identify critical determinants of their health as well as the health status of diverse communities. Topics include not only the normal functioning of these systems but also their responses to infection, injury, and environmental stress. Through lectures and laboratories, students will explore how their own body functions. The relative power of diagnosis and treatment of disease (medicine) versus primary prevention of disease (public health) in promoting health will be emphasized.

### **[Science B-27. Human Evolution]**

Catalog Number: 0470

*Daniel E. Lieberman, David Pilbeam, and Maryellen Ruvolo*

*Half course (spring term). Tu., Th., 10–11:30, and a 90-minute weekly section to be arranged.*

*EXAM GROUP: 12, 13*

A survey of human evolution as a particular example of important issues in biological anthropology and evolutionary biology. Some principles of evolutionary theory, primate behavioral ecology, molecular evolution, and functional morphology are used to interpret the fossil record of the hominids (humans and their direct ancestors and collaterals), from hominid origins to the appearance of modern humans through to the present day. Emphasis is on the dynamic (behavioral, populational, and ecological) interpretation of the records.

*Note: Expected to be given in 2006–07.*

### **Science B-29. Evolution of Human Nature**

Catalog Number: 0152 Enrollment: Limited to 400.

*Richard W. Wrangham and Marc D. Hauser*

*Half course (fall term). M., W., F., at 1, and a 90-minute weekly section/laboratory to be arranged. Additional meeting times for two required film showings to be announced. EXAM GROUP: 6*

Human biology and behavior are considered in a broad evolutionary context, showing how the facts of development, physiology, neurobiology, reproduction, cognition, and especially behavior are informed by evolutionary theory and comparative evidence. Field and experimental data on other species are introduced with the aim of illuminating human behavior. Behavior is traced from its evolutionary function as adaptation, through its physiological basis and associated psychological mechanisms, to its expression. The role of ecology and social life in shaping human behavior is examined through the use of ethnographies and cross-cultural materials on a variety of human cultures. Topics include basic genetics, neural and neuroendocrine systems, behavioral development, sex differences, kinship and mating systems, ecology, language, and cognition.

**Science B-35. How to Build a Habitable Planet**

Catalog Number: 7621

*Charles H. Langmuir**Half course (spring term). Tu., Th., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 15, 16*

The steps involved in creation of our habitable planet: the Big Bang, origin of the elements, formation of minerals, origin of the solar system, formation of planets, origin of life, co-evolution of ocean, atmosphere, solid earth and biosphere, development of plate tectonics, operation of the modern whole earth system, and climate regulation. Finally we consider the arising of intelligent life that can understand and influence the planetary system, and whether Earth may be a microcosm reflecting laws of planetary evolution that may be common to a class of planets throughout the universe, or alternatively may be a low probability accident.

**[Science B-40. The Biology of Trees and Forests]**

Catalog Number: 2635

*Donald H. Pfister**Half course (spring term). Tu., Th., 11:30–1, and a weekly section/laboratory to be arranged. EXAM GROUP: 13, 14*

Trees are prominent and important organisms in the ecosystem. By photosynthesis, trees convert carbon dioxide into organic molecules that are used as energy reserves and as structural components of these plants. Oxygen is also released. Trees, carbon cycling, and the greenhouse effect are intimately intertwined. This course uses trees as examples to explore several facets of plant biology as they relate to identification, growth, reproduction, physiology of transport, ecology, management, and use of plant products.

*Note: Expected to be given in 2006–07.***Science B-44. Vision and Brain**

Catalog Number: 4722

*Patrick Cavanagh**Half course (fall term). M., W., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 6, 7*

Focuses on the mechanisms by which the brain understands the visual world. Topics include the nature of light in the environment, physical properties of the eye, techniques of depiction in art, structure and function of the normal visual system, and deficits arising from damage to the eye or the brain. The course will survey interdisciplinary material from physics, physiology, medicine, psychology, and art.

**[Science B-46. Molecular Biology and the Structure of Life]**

Catalog Number: 3395

*Gregory L. Verdine**Half course (fall term). M., W., F., at 9, and a 90-minute weekly section to be arranged. EXAM GROUP: 2*

Describes the applications of molecular biology to medicine, evolution, forensics, and biotechnology. Modern biology is based on a view of life in which a small set of key molecules—DNA, RNA, and proteins—play central roles. This view makes it possible to discuss a remarkable range of characteristics of living organisms using a common set of principles. Also



considers the implications of molecular genetics and the human genome project.

*Note:* Expected to be given in 2006–07.

### **Science B-47. Molecules of Life**

Catalog Number: 3330

*Stuart L. Schreiber and Jon Clardy (Medical School)*

*Half course (fall term). Tu., Th., 10–11:30, and a weekly section to be arranged. EXAM*

*GROUP: 12, 13*

DNA, RNA, and proteins play central roles in life. By considering the relationships of these molecules, many of the foundations of life can be understood. Nevertheless, another family of molecules, named “small molecules,” is key not only to understanding the principles and origins of life, but also to ensuring the highest quality of healthcare for humans. Small molecules are powerful probes of the circuitry of cells and the wiring of genomes. They are also the link between chemistry, biology, and medicine. These links, the principles of living organisms, and modern genomic medicine are explored.

### **Science B-53. Marine Biology**

Catalog Number: 7050

*Robert M. Woollacott*

*Half course (fall term). Tu., Th., 1–2:30, and a two-hour weekly section to be arranged. Two field trips will substitute for two weeks of section. EXAM GROUP: 15, 16*

Explores the life histories and adaptations of marine life and the ecosystems of the sea. Centers on the complex interrelationships of organisms, the diversity of various habitats, reproductive strategies, and speciation as well as the interplay of currents, light, temperature, and nutrient supply on the distribution of life in the sea.

*Prerequisite:* Secondary school biology.

### **Science B-57. Dinosaurs and Their Relatives**

Catalog Number: 0793

*Charles R. Marshall*

*Half course (spring term). Tu., Th., 11:30–1, and a weekly section to be arranged. EXAM GROUP: 13, 14*

Comprehensive exploration of the biology, evolution, and extinction of the dinosaurs and their closest relatives. Through this exploration, core concepts in paleontology, evolutionary biology, and geology will be introduced. Weekly sections center on the examination of fossil material.

### **Science B-60. Origins of Knowledge**

Catalog Number: 8280

*Susan E. Carey and Elizabeth S. Spelke*

*Half course (fall term). M., W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

This course explores the origins and development of knowledge in the human child, in relation to two larger time scales: biological evolution and historical/cultural change. Drawing on evidence from experimental, comparative, and developmental psychology, cultural anthropology, linguistics, cognitive neuroscience, and history of science, it focuses on knowledge development in the domains of number, space, mind, biology, physics, and language. Questions include: How does human biology constrain and support human cognition? How variable are human



knowledge systems across different cultures and times? What aspects of knowledge are unique to humans? How does knowledge change as children grow and adults gain expertise?

*Note:* Expected to be omitted in 2006–07.

### **Science B-62. The Human Mind**

Catalog Number: 3167

*Steven Pinker*

*Half course (spring term). Tu., Th., 1:30–3, and a weekly section to be arranged. EXAM*

*GROUP: 15, 16*

An introduction to the workings of the human psyche. The course will introduce major approaches to the study of the mind such as psychoanalysis, behaviorism, cognitive neuroscience, and evolutionary psychology; controversies such as nature-nurture, consciousness, and free will; and specific topics such as perception, reasoning, language, emotion, sexuality, cooperation, love, violence, humor, beauty, religion, and the self. Research from numerous disciplines will be discussed: primarily scientific psychology, but also neuroscience, genetics, evolution, artificial intelligence, philosophy, and the social sciences.

*Note:* Expected to be omitted in 2006–07.

### **[Science B-64. Feeding the World: Plants, Productivity, and Limits to Growth]**

Catalog Number: 2078

*N. Michele Holbrook*

*Half course (fall term). Hours to be arranged.*

What is the capacity of our planet to feed the ever increasing human population? The biological basis for agricultural productivity, the history of human innovation in increasing crop production, and the opportunities to increase agricultural yields in the 21st Century. Explores plant domestication, efficiency of energy conversion by plants, limitations due to resource availability, the power of classing breeding, the green revolution, the opportunities (and risks) associated with genetic manipulation, and the challenges resulting from climate change.

*Note:* Expected to be given in 2006–07.

### ***Departmental courses that satisfy the Science B requirement***

The following departmental courses may be taken to meet the Science B requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

**Biological Sciences 50. Genetics and Genomics**

**Biological Sciences 51. Integrative Biology of Organisms**

**Biological Sciences 52. Introductory Molecular Biology**

**Biological Sciences 53. Evolutionary Biology**

**Biological Sciences 54. Introductory Cell Biology**

**Biological Sciences 57. Animal Behavior**

**Biological Sciences 80. Behavioral Neuroscience**

**Engineering Sciences 6. Environmental Science and Technology**

**Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and**





**Evolution**  
**OEB 124 (formerly Biology 124). Biology of Plants**

## *Social Analysis*

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

The common aim of courses in Social Analysis is to acquaint students with some of the central concepts and methods of the social sciences and to show how these approaches can enhance our understanding of contemporary human behavior. Social Analysis courses are not intended to provide a survey of a particular discipline, but rather to show how, by the use of formal theories that are systematically related to empirical data, one can better understand the application of analytical methods to important problems involving the behavior of people and institutions.

#### ***Social Analysis***

#### **Social Analysis 10. Principles of Economics**

Catalog Number: 3660

*N. Gregory Mankiw, Silvia Ardagna, and members of the Economics Department*

*Full course (indivisible). M., W., F., at 12. Sections also meet at 9, 10, 11, 12, 1, or 2. EXAM GROUP: 5*

Introduction to economic issues and basic principles and methods of economics. Fall term focuses on microeconomics: how markets work, market efficiency and market failure, firm and consumer behavior, and policy issues such as taxation, international trade, the environment, and the distribution of income. Spring term focuses on macroeconomics: economic growth, inflation, unemployment, the business cycle, the financial system, international capital flows and trade imbalances, and the impact of monetary and fiscal policy.

*Note:* Must be taken as a full course. Taught in a mixture of lectures and small sections. No calculus is used, and there is no mathematics background requirement. Designed for both potential economics concentrators and those who plan no further work in the field. The Department of Economics strongly encourages students considering concentration to take this course in their freshman year. This is a required course for all economics concentrators and a prerequisite for higher level courses in economics.

#### **[Social Analysis 28. Culture, Illness, and Healing: An Introduction to Medical Anthropology]**

Catalog Number: 4247

*Arthur Kleinman*

*Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*

An inquiry into the role of health and medicine in society that demonstrates how anthropological analysis can be applied to the study of illness and care. Compares medical systems across societies to understand the experience and treatment of sickness. Analyzes how practitioners and patients construe sickness and suffering as distinctive social realities, and how those realities are organized in local cultural systems. Assesses varieties of suffering as social phenomena in order to appreciate the social sources of global social problems, the cross-cultural variety of illness experiences, the reform of services, and the global moral and political-economic crisis in health



care.

*Note:* Expected to be given in 2006–07.

### **Social Analysis 34. Knowledge of Language**

Catalog Number: 2069

*Cedric Boeckx*

*Half course (fall term). M., W., (F.), at 1, and a weekly section to be arranged. EXAM GROUP: 6*

What does our ability to acquire and use a language tell us about our essential human nature? This course examines the view of modern linguistics that knowledge of language is best characterized as an unconsciously internalized set of abstract rules and principles. Evidence is drawn from a variety of signed and spoken languages, language universals, child language acquisition, language change, language disorders, and language games. The course also addresses central issues in psychology, animal communication, computer science, and biology.

### **Social Analysis 43. Psychological Trauma**

Catalog Number: 9983

*Richard J. McNally*

*Half course (spring term). M., W., at 1, and a weekly section to be arranged. EXAM GROUP: 6*

Few topics in contemporary American culture have sparked as much controversy as has psychological trauma. Although clinical interest in trauma waxed and waned since the 1890s when Freud proposed that people repress memories of childhood sexual assault, interest has markedly increased since 1980 when the American Psychiatric Association ratified the diagnosis of post traumatic stress disorder (PTSD) to describe the problems of troubled combat veterans of the Vietnam War. The purpose of this course is to survey the clinical, historical, cultural, and political aspects of psychological trauma.

*Note:* Expected to be omitted in 2006–07.

### **[Social Analysis 46. Thinking about Politics: A Rational Choice Approach]**

Catalog Number: 3544

*Kenneth A. Shepsle*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

A commonsensical survey of rational theories of politics, comprised of four segments: (1) individual choice, (2) group choice, (3) collective action, and (4) institutions. The underlying theme is that politics may be described and understood in terms of rational, goal-seeking behavior by citizens, politicians, bureaucrats, and interest groups in various institutional settings. Students are encouraged to think deeply and with sophistication about current events, history, and public life generally, as well as to analyze the politics of private life—in families, clubs, firms, churches, universities, even Harvard Houses—since private politics, like public politics, may be understood in terms of rational behavior.

*Note:* Expected to be given in 2006–07.

### **Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States**

Catalog Number: 4409

*C. C. Lamberg-Karlovsky*



*Half course (spring term). Tu., Th., at 10; and a 90-minute weekly section to be arranged. EXAM GROUP: 12*

Examines the development and structure of the earliest state-level societies in the ancient world. Archaeological approaches are used to analyze the major factors behind the processes of urbanization and state formation in Mesopotamia, Egypt, Central Asia, the Indus Valley, and Mesoamerica. The environmental background as well as the social, political, and economic characteristics of each civilization are compared to understand the varied forces that were involved in the transitions from village to urbanized life. Discussion sections utilize archaeological materials from the Peabody Museum and Semitic Museum collections to study the archaeological methods used in the class.

*Note:* No previous knowledge of archaeology is necessary.

### **Social Analysis 52. The Political Economy of Development**

Catalog Number: 1879

*Robert H. Bates*

*Half course (fall term). M., W., (F.), at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Growth and development imply a transformation in the politics and economics of nations. How does this transformation take place? What economic forces and political struggles propel it? Drawing on anthropology, political science, and economics, the course explores the process of urbanization, state formation, war-making, and development.

### **[Social Analysis 54. American Society and Public Policy]**

Catalog Number: 6661

*Theda Skocpol and Mary C. Waters*

*Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

How do social problems get redefined over time; why do they appear differently to various groups; and how are public policies about problematic social conditions debated, devised, and changed? Looking over modern US history, this course combines demographic data on societal trends, ethnographic data on people's everyday lives and outlooks, and evidence about changing institutional structures. This combination of approaches often pursued separately in the social sciences is used to explore recurrent yet shifting controversies about the well-being of families and children, about immigration and citizenship, and about access to health care in the US.

*Note:* Expected to be given in 2007–08.

### **Social Analysis 66. Race, Ethnicity, and Politics in the United States**

Catalog Number: 0916

*Jennifer L. Hochschild*

*Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

How are racial divisions and American political structures related? Is racial/ethnic hierarchy built into American politics so deeply that the nation must change dramatically to eradicate it? Or is racial/ethnic hierarchy a flaw in an essentially fair society that we can eradicate without major dislocation? Half of the course addresses this set of questions. How do African Americans, Anglos, Latinos, and Asian Americans relate to one another? The second half of the course considers interracial coalitions, racialization and assimilation, multiracialism, and the history of



various groups. We conclude with several visions of racial and ethnic politics in America's future, and address how to get there.

### **Social Analysis 70. Food and Culture**

Catalog Number: 3940

*James L. Watson*

*Half course (spring term). M., W., at 10; . EXAM GROUP: 3*

Food is examined for its social and cultural implications; nutritional or dietetic concerns are of secondary interest. Topics include food taboos and restrictions, gift giving and reciprocity, food symbolism and social boundaries, food panics, globalization of food industries, food security and agroterrorism, and the world standardization of food preferences. Examples are drawn from China, Japan, Korea, India, Latin America, Africa, Europe, the Pacific, and the US.

### **Social Analysis 72. Economics: A Critical Approach**

Catalog Number: 1885

*Stephen A. Marglin*

*Half course (fall term). M., W., 2–3:30, and a weekly section to be arranged. EXAM GROUP: 7, 8*

This course critically examines the assumptions of modern economics and how these assumptions mold the ideas and conclusions of the discipline. A principal question is the appropriate scope of the market. This question will be examined both theoretically and through examples drawn from both microeconomics and macroeconomics; possible examples include minimum wage and “living wage” legislation, health care, the environment, international trade, social security, and macroeconomic stabilization.

*Note:* Primarily taught in lectures, with section meetings offering a chance both to clarify concepts and to discuss applications. Calculus is not used, and there is no mathematics prerequisite. Unlike Social Analysis 10, this course does not fulfill the introductory course requirement for the Economics Department. Moreover, most upper level courses in Economics normally require Social Analysis 10 as a prerequisite; without this prerequisite, enrollment is at the discretion of the instructor. This course is open to students with no previous coursework in economics and to students who have completed or are enrolled concurrently in Social Analysis 10. Expected to be omitted in 2006–07.

### **[Social Analysis 74. Visible Language: Writing Systems, Scripts, and Literacy]**

Catalog Number: 3835

*John Huehnergard*

*Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*

Can we read this? Why? How is it possible to record speech and thoughts in visible form, and to understand what others have recorded? Writing may be the most important human invention, yet it has been invented only a handful of times. We will investigate how writing represents speech and thought in visual form, origins of writing five millennia ago, types of writing (pictographic, syllabic, alphabetic), decipherment, the cultural impact of literacy. We will consider scripts such as Mesopotamian cuneiform, Egyptian hieroglyphs, Chinese, Mayan glyphs, Japanese, Korean, recently-invented scripts, and alphabets, including our own, that arose from Semitic consonant



systems.

*Note:* Expected to be given in 2006–07.

### **Social Analysis 76. Global Health Challenges**

Catalog Number: 2178

*Christopher Murray (Public Health)*

*Half course (fall term). M., W., (F.), at 10, and a weekly section to be arranged. EXAM GROUP: 3*

This course introduces the principal health problems of the world's populations, and the major challenges to improving health at a global level. It is an inter-disciplinary exploration of the factors that account for these health patterns, ranging from their physiological basis to their economic, social and political context. Topics include: infectious diseases, risk factors, health system performance, and the role of international agencies. Throughout the course, a heavy emphasis is placed on what we know and how we know about global health problems. Students are encouraged to think creatively about the nature of these problems and ways to solve them.

### ***Departmental courses that satisfy the Social Analysis requirement***

The following departmental courses may be taken to meet the Social Analysis requirement. These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

**Economics 1010a. Microeconomic Theory**

**Economics 1010b. Macroeconomic Theory**

**Economics 1011a. Microeconomic Theory**

**Economics 1011b. Macroeconomic Theory**

## Freshman Seminars and General Education Electives

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Committee on Freshman Seminars***

Georgene B. Herschbach, Associate Dean of Undergraduate Academic Programs (*Chair*)

Julie A. Buckler, Professor of Slavic Languages and Literatures

Joyce E. Chaplin, Professor of History

Gerard F. Denault, Associate Director of the Freshman Seminar Program (*ex officio*)

Virginie Greene, Professor of Romance Languages and Literatures, Associate of Kirkland House



J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences  
John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics  
David I. Laibson, Professor of Economics (*on leave spring term*)  
Lisa L. Martin, Clarence Dillon Professor of International Affairs  
Sandra Naddaff, Senior Lecturer on Literature and on Comparative Literature (*Director of the Freshman Seminar Program, ex officio*)  
Jeffrey Wolcowitz, Senior Lecturer on Economics and Associate Dean of Harvard College (*spring term only*)

***Other Faculty Offering Instruction in the Freshman Seminar Program***

Mikael Adolphson, Associate Professor of Japanese History  
Arthur I. Applbaum, Professor of Ethics and Public Policy (*Kennedy School*)  
Nima Arkani-Hamed, Professor of Physics  
David R. Armitage, Professor of History  
Paul G. Bamberg, Senior Lecturer on Mathematics  
Paul J. Barreira, Associate Professor of Psychiatry (*Medical School*)  
Bruce P. Bean, Professor of Neurobiology (*Medical School*)  
Sadhana Bery, Lecturer on Social Studies  
Deborah L. Blacker, Associate Professor of Epidemiology (*Public Health*) and Associate Professor of Psychiatry (*Medical School*)  
William H. Bossert, David B. Arnold, Jr. Professor of Science  
Rory A. W. Browne, Lecturer on History and Literature  
Peter Buck, Senior Lecturer on the History of Science  
Lawrence Buell, Powell M. Cabot Professor of American Literature  
Arachu Castro, Assistant Professor of Social Medicine (*Medical School*)  
Oona Britt Ceder, Lecturer on Social Studies  
Joyce E. Chaplin, Professor of History  
Alexander Cohen, Assistant Professor of Social Medicine (*Medical School*)  
Shaye J.D. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy  
Richard N. Cooper, Maurits C. Boas Professor of International Economics  
S. Allen Counter, Associate Professor of Neurology (*Medical School*)  
Cole M. Crittenden, Lecturer on Slavic Languages and Literatures  
Rajeev H. Dehejia, Visiting Associate Professor of Economics (*Columbia University*)  
Elvira G. DiFabio, Senior Preceptor in Romance Languages and Literatures  
Sarah Dix, Lecturer on Social Studies  
Jonathan R. Eastwood, Lecturer on Social Studies  
Noam D. Elkies, Professor of Mathematics  
John L. Ellison, Lecturer on Near Eastern Languages and Civilizations  
Myron E. Essex, John Laporte Given Professor of Infectious Diseases (*Public Health*)  
Majid Ezzati, Assistant Professor of International Health (*Public Health*)  
Philip J. Fisher, Harvard College Professor and Felice Crowl Reid Professor of English and American Literature  
Raymond J. Fisman, Visiting Associate Professor of Economics (*Columbia University Business School*)





Karen P. Flood, Lecturer on History and Literature  
 Rena Fonseca, Lecturer on History and Literature  
 David R. Foster, Senior Lecturer on Biology  
 Robert France, Adjunct Associate Professor of Landscape Ecology (*Design School*)  
 Howard Georgi, Harvard College Professor and Mallinckrodt Professor of Physics  
 Debra L. Gettelman, Lecturer on History and Literature  
 Donald B. Giddon, Clinical Professor of Growth and Development (*Medical School*)  
 Roy J. Glauber, Mallinckrodt Professor of Physics  
 Donald A. Goldmann, Professor of Pediatrics (*Medical School*) and Professor of Immunology and Infectious Diseases (*Public Health*)  
 Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
 Jerome Elliot Groopman, Dina and Raphael Recanati Professor of Medicine (*Medical School*)  
 Karl S. Guthke, Kuno Francke Professor of German Art and Culture  
 Peter Dobkin Hall, Lecturer on History  
 Jeffrey F. Hamburger, Professor of History of Art and Architecture  
 James Hanken, Professor of Biology and Alexander Agassiz Professor of Zoology  
 Lori B. Harrison-Kahan, Lecturer on History and Literature  
 Charles W. M. Henebry, Lecturer on History and Literature and Preceptor in Expository Writing  
 Dudley R. Herschbach, Frank B. Baird, Jr. Research Professor of Science  
 David H. Hubel, Research Professor of Neurobiology (*Medical School*)  
 John P. Huchra, Robert O. and Holly Thomis Doyle Professor of Cosmology  
 Andrew J. Huebner, Lecturer on History and Literature  
 Francis Abiola Irele, Visiting Professor of African and African American Studies and of Romance Languages and Literatures  
 Maxine Isaacs, Lecturer on Government  
 Laura K. Johnson, Lecturer on History and Literature  
 Jason A. Kaufman, John L. Loeb Associate Professor of the Social Sciences  
 Sun Joo Kim, Associate Professor of Korean History  
 Amy M. Kittelstrom, Lecturer on History and Literature  
 William Klemperer, Erving Research Professor of Chemistry  
 James T. Kloppenberg, Harvard College Professor and David Woods Kemper '41 Professor of American History  
 Jeremy R. Knowles, Harvard University Distinguished Service Professor and Amory Houghton Professor of Chemistry and Biochemistry  
 Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Elisabeth L. Laskin, Lecturer on History  
 Jennifer Leaning, Professor of International Health (*Public Health*)  
 Myron Lecar, Lecturer on Astronomy  
 Tun-Hou Lee, Professor of Virology (*Public Health*)  
 Jonathan Ian Levy, Assistant Professor of Environmental Health and Risk Assessment (*Public Health*)  
 Harry R. Lewis, Harvard College Professor and Gordon McKay Professor of Computer Science  
 Daniel E. Lieberman, Professor of Anthropology  
 Jonathan Losos, Visiting Professor of Organismic and Evolutionary Biology (*Washington University, St. Louis*)



Theodore MacDonald, Lecturer on Social Studies  
 Amala K. Mahadevan, Visiting Associate Professor of Applied Mathematics (*Boston University*)  
 James N. Mancall, Lecturer on History and Literature  
 Carol C. Mancusi-Ungaro, Senior Lecturer on History of Art and Architecture  
 Stephen P. Marks, Francois-Xavier Bagnoud Professor of Health and Human Rights (*Public Health*)  
 Ernest R. May, Charles Warren Professor of American History  
 David McCann, Korea Foundation Professor of Korean Literature  
 Lisa M. McGirr, Dunwalke Associate Professor of American History  
 Maureen N. McLane, Lecturer on History and Literature  
 Louis Menand, Anne T. and Robert M. Bass Professor of English and American Literature and Language  
 Karin B. Michels, Associate Professor of Epidemiology (*Public Health*) and Associate Professor of Obstetrics, Gynecology, and Reproductive Biology (*Medical School*)  
 Ralph Mitchell, Gordon McKay Professor of Applied Biology  
 Megan Blanche Murray, Assistant Professor of Epidemiology (*Public Health*)  
 Robert H. Neugeboren, Lecturer on Social Studies  
 Andrew Nevins, Assistant Professor of Linguistics  
 Nicole D. Newendorp, Lecturer on Social Studies  
 Joanna Nizynska, Assistant Professor of Slavic Languages and Literatures  
 Carol J. Oja, William Powell Mason Professor of Music  
 Steven Ozment, McLean Professor of Ancient and Modern History (*on leave spring term*)  
 John G. Palfrey, Lecturer on History and Literature  
 Judith Palfrey, T. Berry Brazelton Professor of Pediatrics (*Medical School*)  
 Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science and of Studies of Women, Gender, and Sexuality  
 John M. Picker, Assistant Professor of English and American Literature and Language  
 David Pilbeam, Henry Ford II Professor of Human Evolution (*on leave spring term*)  
 Leah Price, Professor of English and American Literature and Language  
 Stephen Prina, Professor of Visual and Environmental Studies  
 Lisa Randall, Professor of Physics  
 Alan Richardson, Visiting Professor of English and American Literature and Language (*Boston College*)  
 Amelie Rorty, Visiting Professor of Social Studies (*Yale University*)  
 James R. Russell, Mashtots Professor of Armenian Studies  
 Peter Sacks, John P. Marquand Professor of English  
 Stephanie Sandler, Ernest E. Monrad Professor of Slavic Languages and Literatures  
 Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value  
 Fred C. Schaffer, Lecturer on Social Studies  
 Mark Schiefsky, Associate Professor of the Classics  
 Ronald Schouten, Associate Professor of Psychiatry (*Medical School*)  
 Arjun K. Sengupta, Adjunct Professor of Development and Human Rights (*Public Health*)  
 Steven Shapin, Franklin L. Ford Professor of the History of Science  
 Stuart M. Shieber, Harvard College Professor and James O. Welch, Jr. and Virginia B. Welch Professor of Computer Science  
 P. Oktor Skjaervo, Aga Khan Professor of Iranian



Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and Professor of Comparative Literature  
Rachel St. John, Assistant Professor of History  
Zahr S. Stauffer, Lecturer on History and Literature  
Sarah Stewart-Mukhopadhyay, Assistant Professor of Planetary Science  
Despina Stratigakos, Lecturer on Studies of Women, Gender, and Sexuality  
Christopher Stubbs, Professor of Physics and of Astronomy  
Maureen E. Sullivan, Visiting Assistant Professor of Social Studies (*Northern Illinois University*)  
Lawrence H. Summers, Professor of Economics and President of Harvard University  
Lisa Szefel, Lecturer on History and Literature  
Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and Dean for the Humanities  
Woden S. Teachout, Lecturer on History and Literature  
Wei-Ming Tu, Harvard-Yenching Professor of Chinese History and Philosophy and of Confucian Studies  
Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies  
James E. von der Heydt, Lecturer on History and Literature  
Andrew G. Walder, Visiting Professor of Sociology (*Stanford University*)  
Rubie S. Watson, Senior Lecturer on Anthropology  
Adam Webb, Lecturer on Social Studies  
Daniel I. Wikler, Professor of Population and International Health (*Public Health*)  
Endymion P. Wilkinson, Lecturer on East Asian Languages and Civilizations  
Jeffrey G. Williamson, Laird Bell Professor of Economics  
Richard Wilson, Mallinckrodt Professor of Physics, *Emeritus*  
Irene J. Winter, William Dorr Boardman Professor of Fine Arts  
Jeffrey Wolcowitz, Senior Lecturer on Economics and Associate Dean of Harvard College  
Christoph Wolff, Adams University Professor  
Henri Zerner, Professor of History of Art and Architecture  
Peter A. Zusi, Lecturer on Slavic Languages and Literatures

***Other Faculty Offering Instruction in General Education Electives and House Seminars***

Donald M. Berwick, Associate Professor in the Department of Health Policy and Management (*Public Health*) and Clinical Professor of Pediatrics and Health Care Policy in the Department of Pediatrics (*Medical School*)  
David Blumenthal, Samuel O. Thier Professor of Medicine (*Medical School*)  
Richard G. Frank, Margaret T. Morris Professor of Health Economics (*Medical School*)  
Howard H. Hiatt, Professor of Social Medicine (*Medical School*) and Professor of Medicine (*Public Health*)  
Joseph P. Kalt, Ford Foundation Professor of International Political Economy (*Kennedy School*) (*on leave 2005-06*)  
Shahram Khoshbin, Associate Professor of Neurology (*Medical School*)  
Clifford Lo, Assistant Professor of Pediatrics (*Medical School*) and Assistant Professor of Nutrition (*Public Health*)  
Armand M. Nicholi II, Associate Clinical Professor of Psychiatry (*Medical School*)



Anthony G. Oettinger, Gordon McKay Professor of Applied Mathematics and Professor of Information Resources Policy

Roger B. Porter, IBM Professor of Business and Government (*Kennedy School*)

Warner V. Slack, Professor of Medicine (*Medical School*)

## ***Freshman Seminars***

Students entering Harvard College with freshman standing may apply for a freshman seminar during the first two terms of residence. Freshman Seminars may not be audited. For a complete description of the Freshman Seminar Program and 2005-06 offerings, please consult the current Freshman Seminar catalog. Catalogs may be obtained from the Freshman Seminar Office, 6 Prescott Street, Cambridge, MA 02138 (telephone: 617-495-1523; email: seminars@fas.harvard.edu). Additional information can be obtained from the Freshman Seminar website: [www.fas.harvard.edu/~seminars](http://www.fas.harvard.edu/~seminars).

### ***Freshman Seminars 2005-06***

#### **\*Freshman Seminar 21j. Human Evolution**

Catalog Number: 0746 Enrollment: Limited to 12.

*David Pilbeam*

*Half course (fall term). Tu., 1:30–3:30.*

*Note: Open to Freshmen only.*

#### **\*Freshman Seminar 21o. The Neurophysiology of Visual Perception**

Catalog Number: 7584 Enrollment: Limited to 12.

*David H. Hubel (Medical School)*

*Half course (fall term). Tu., 1:30–5.*

*Note: Open to Freshmen only. Meets at the Medical School.*

#### **\*Freshman Seminar 21s. Germs**

Catalog Number: 2067 Enrollment: Limited to 12.

*Ralph Mitchell*

*Half course (fall term). W., 1–3.*

*Note: Open to Freshmen only.*

#### **\*Freshman Seminar 21u. Calculating Pi**

Catalog Number: 4737 Enrollment: Limited to 12.

*Paul G. Bamberg*

*Half course (fall term). W., 3–6.*

*Note: Open to Freshmen only.*

#### **\*Freshman Seminar 21w. Research at the Harvard Forest**

Catalog Number: 0060 Enrollment: Limited to 11.

*David R. Foster*

*Half course (spring term). Four weekends at the Harvard Forest in Petersham, MA.*



*Note:* Open to Freshmen only. Four weekends at the Harvard Forest in Petersham, MA: (Fri, 3pm–Sun, late afternoon) Feb 24-26, Mar 17-19, Apr 7-9, and Apr 28-30.

**\*Freshman Seminar 21x. Galaxies and the Universe**

Catalog Number: 4075 Enrollment: Limited to 12.

*John P. Huchra*

*Half course (fall term). Hours to be arranged.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 22e. Molecular Motors: Wizards of the Nanoworld**

Catalog Number: 6565 Enrollment: Limited to 12.

*Dudley R. Herschbach*

*Half course (spring term). Th., 2–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 22j. Seeing by Spectroscopy**

Catalog Number: 4039 Enrollment: Limited to 12.

*William Klemperer*

*Half course (spring term). W., 2–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 22k. Can Machines Think? The Turing Test and the Possibility of Natural-Language Interaction with Computers**

Catalog Number: 1997 Enrollment: Limited to 12.

*Stuart M. Shieber*

*Half course (spring term). Th., 2:30–5 with some additional meetings Tu., 2:30–3:30.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 22x. Bioluminescence**

Catalog Number: 9569 Enrollment: Limited to 12.

*J. Woodland Hastings*

*Half course (fall term). M., 5–7:30 pm.*

*Note:* Open to Freshmen only. Participants are expected to have a standard high school background in biology, chemistry, and physics.

**\*Freshman Seminar 22y. Electricity in Neurons**

Catalog Number: 9615 Enrollment: Limited to 8.

*Bruce P. Bean (Medical School)*

*Half course (fall term). W., 2–5.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 22z. Quantitative Methods in Public Policy Decisions**

Catalog Number: 8839 Enrollment: Limited to 12.

*Richard Wilson*

*Half course (spring term). W., 2–5.*

*Note:* Open to Freshmen only.



**\*Freshman Seminar 23j. Chess and Mathematics**

Catalog Number: 5445 Enrollment: Limited to 12.

*Noam D. Elkies*

*Half course (spring term). M., 2–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 23k. Insights from Narratives of Illness**

Catalog Number: 1904 Enrollment: Limited to 12.

*Jerome Elliot Groopman (Medical School)*

*Half course (spring term). Th., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 23p. When Antibiotics Fail: From Sore Throats to Tuberculosis to Anthrax**

Catalog Number: 4133 Enrollment: Limited to 12.

*Jeremy R. Knowles*

*Half course (fall term). Th., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 23z. A Short History of DNA**

Catalog Number: 6423 Enrollment: Limited to 12.

*Roberto G. Kolter (Medical School)*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 24e. The Physics and Applied Physics Freshman Research Laboratory**

Catalog Number: 3573 Enrollment: Limited to 12.

*Jene A. Golovchenko*

*Half course (fall term). Tu., Th., 3:30–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 24j. Planets Around Other Stars**

Catalog Number: 2697 Enrollment: Limited to 12.

*Myron Lecar*

*Half course (spring term). Tu., 4:30–6:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 24n. Child Health in America**

Catalog Number: 6367 Enrollment: Limited to 12.

*Judith Palfrey (Medical School)*

*Half course (fall term). M., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 24x. Global Mental Health**

Catalog Number: 7270 Enrollment: Limited to 12.

*Alexander Cohen (Medical School)*





*Half course (spring term). Tu., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 24z. The Hidden Universe: Dark Matter, Dark Energy, and Extra Dimensions**

Catalog Number: 9264 Enrollment: Limited to 12.

*Christopher Stubbs and Nima Arkani-Hamed*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25e. Human Locomotion**

Catalog Number: 4806 Enrollment: Limited to 12.

*Daniel E. Lieberman*

*Half course (spring term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25g. The Impact of Infectious Diseases on History and Society**

Catalog Number: 8075 Enrollment: Limited to 12.

*Donald A. Goldmann (Medical School, Public Health)*

*Half course (fall term). Tu., 7–9 pm.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25j. Clearing the Air: Urban Air Pollution and Global Health**

Catalog Number: 7963 Enrollment: Limited to 12.

*Majid Ezzati (Public Health)*

*Half course (fall term). W., 2–4:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25k. You Are What You Eat**

Catalog Number: 3913 Enrollment: Limited to 12.

*Karin B. Michels (Public Health, Medical School)*

*Half course (fall term). M., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25m. Epidemic as Metaphor**

Catalog Number: 2320 Enrollment: Limited to 12.

*Megan Blanche Murray (Public Health)*

*Half course (spring term). Tu., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25p. Neurotoxicology: Biological Effects of Environmental Poisons**

Catalog Number: 1838 Enrollment: Limited to 12.

*S. Allen Counter (Medical School)*

*Half course (fall term). Tu., 2–4.*

*Note: Open to Freshmen only.*



**\*Freshman Seminar 25s. The Population Biology of Epidemics**

Catalog Number: 0022 Enrollment: Limited to 12.

*William H. Bossert*

*Half course (fall term). W., 2–4:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25t. AIDS in Africa**

Catalog Number: 0024 Enrollment: Limited to 12.

*Myron E. Essex (Public Health) and Tun-Hou Lee (Public Health)*

*Half course (spring term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25u. The Atomic Nucleus on the World Stage**

Catalog Number: 0027 Enrollment: Limited to 12.

*Roy J. Glauber*

*Half course (fall term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25w. Responsibility, the Brain, and Behavior**

Catalog Number: 0049 Enrollment: Limited to 12.

*Ronald Schouten (Medical School)*

*Half course (fall term). Tu., 7–9 pm.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25y. Climate Change: Past, Present, and Future**

Catalog Number: 0089 Enrollment: Limited to 12.

*Amala K. Mahadevan (Boston University)*

*Half course (fall term). W., 1–3:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 25z. Stress and Disease (Biobehavioral Aspects of Health and Disease)**

Catalog Number: 1691 Enrollment: Limited to 12.

*Donald B. Giddon (Medical School)*

*Half course (fall term). W., 2–4.*

*Note: Open to Freshmen only. May meet at the Medical School.*

**\*Freshman Seminar 26e. Boat Wakes at Sunset, Rainbows, and Other Beautiful Physics**

Catalog Number: 8501 Enrollment: Limited to 12.

*Howard Georgi*

*Half course (spring term). M., 7–9 pm.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 26g. Evolutionary Diversification and Adaptive Radiation: Anolis Lizards of the Caribbean**

Catalog Number: 8533 Enrollment: Limited to 12.

*Jonathan Losos (Washington University, St. Louis)*



*Half course (spring term). W., 3–5.*

*Note:* Open to Freshmen only. There may be a class trip scheduled during spring break.

**\*Freshman Seminar 26j. The Universe's Hidden Dimensions**

Catalog Number: 7529 Enrollment: Limited to 12.

*Lisa Randall*

*Half course (spring term). F., 1–3.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 30e. Transgressions of Identity**

Catalog Number: 0057 Enrollment: Limited to 12.

*Lori B. Harrison-Kahan*

*Half course (spring term). Tu., 1–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 30g. Making Poetry: Reading, Writing, Performance**

Catalog Number: 0090 Enrollment: Limited to 12.

*Maureen N. McLane*

*Half course (fall term). Tu., 2–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 30j. The Place of African Literature**

Catalog Number: 0092 Enrollment: Limited to 12.

*Zahr S. Stauffer*

*Half course (fall term). W., 3–5.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 30k. The Architecture of Utopias: Designing a Better World**

Catalog Number: 0093 Enrollment: Limited to 12.

*Despina Stratigakos*

*Half course (fall term). Hours to be arranged: M., 2–4 OR 3–5.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 30m. American Women's Autobiography**

Catalog Number: 0096 Enrollment: Limited to 12.

*Woden S. Teachout*

*Half course (spring term). Tu., 1–3.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 30o. What is College and What is It For?**

Catalog Number: 1897 Enrollment: Limited to 12.

*Paul J. Barreira (Medical School) and James N. Mancall*

*Half course (spring term). W., 3–5.*

*Note:* Open to Freshmen only.



**\*Freshman Seminar 30s. American Musical Theater from “Show Boat” to “West Side Story”: Ethnicity, Politics, Musical Style**

Catalog Number: 1937 Enrollment: Limited to 12.

*Carol J. Oja*

*Half course (fall term). Tu., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 30x. The Changing Face of Eternity**

Catalog Number: 2055 Enrollment: Limited to 12.

*James E. von der Heydt*

*Half course (fall term). F., 1–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 30y. Modernism and Realism in European Literature**

Catalog Number: 2058 Enrollment: Limited to 12.

*Peter A. Zusi*

*Half course (spring term). M., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 30z. From Russia with Love**

Catalog Number: 8535 Enrollment: Limited to 12.

*Cole M. Crittenden*

*Half course (spring term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 32j. Who Is a Jew? Jewish Identity and Identifiability in the Modern World**

Catalog Number: 6991 Enrollment: Limited to 12.

*Shaye J.D. Cohen*

*Half course (fall term). Th., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 32p. Charles Dickens**

Catalog Number: 4256 Enrollment: Limited to 12.

*John M. Picker*

*Half course (fall term). Th., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 32x. Topics in Indo-Tibetan Buddhism**

Catalog Number: 2937 Enrollment: Limited to 12.

*Leonard W. J. van der Kuijp*

*Half course (fall term). W., 1–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 32y. Goethe’s Faust**

Catalog Number: 0139 Enrollment: Limited to 12.



*Karl S. Guthke*

*Half course (fall term). M., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 33x. Complexity in Works of Art: Ulysses and Hamlet**

Catalog Number: 6673 Enrollment: Limited to 12.

*Philip J. Fisher*

*Half course (fall term). M., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 34k. Italian-American Literature, History, and Identity**

Catalog Number: 4098 Enrollment: Limited to 12.

*Elvira G. DiFabio*

*Half course (spring term). F., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 34w. American Biography**

Catalog Number: 9773 Enrollment: Limited to 12.

*Laura K. Johnson*

*Half course (spring term). W., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 35t. The Concerto: From Bach and Handel to Liszt and Brahms**

Catalog Number: 8946 Enrollment: Limited to 12.

*Christoph Wolff*

*Half course (spring term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 35z. Novel Reading**

Catalog Number: 4443 Enrollment: Limited to 12.

*Leah Price*

*Half course (fall term). Th., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 36e. Spanish-American Culture and Society in the 1960s – The Last Utopia?**

Catalog Number: 8006 Enrollment: Limited to 12.

*Diana Sorensen*

*Half course (spring term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 36z. Utopia and Anti-Utopia**

Catalog Number: 6375 Enrollment: Limited to 12.

*Francis Abiola Irele*

*Half course (fall term). Hours to be arranged.*

*Note: Open to Freshmen only.*



**\*Freshman Seminar 37e. Material and Method in Modern Art**

Catalog Number: 3805 Enrollment: Limited to 12.

*Carol C. Mancusi-Ungaro*

*Half course (spring term). F., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 37k. China's Confucian Classics: A Close Reading of the Four Books**

Catalog Number: 5310 Enrollment: Limited to 12.

*Wei-Ming Tu*

*Half course (spring term). Th., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 37t. Poems, Films, States of Mind**

Catalog Number: 3252 Enrollment: Limited to 12.

*Stephanie Sandler*

*Half course (fall term). Th., 1:30–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 37z. The Moral Virtues: Socrates and His Critics**

Catalog Number: 1725 Enrollment: Limited to 12.

*Amelie Rorty (Yale University)*

*Half course (fall term). W., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 38e. Madness and the Creative Imagination: Literary and Biomedical Perspectives**

Catalog Number: 8981 Enrollment: Limited to 12.

*Deborah L. Blacker (Public Health, Medical School) and Alan Richardson (Boston College)*

*Half course (spring term). Tu., 2:30–4:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 38j. Medicine and Literature**

Catalog Number: 0116 Enrollment: Limited to 12.

*Elaine Scarry*

*Half course (fall term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 38s. What Are Poets For? Poetry and Its Function**

Catalog Number: 8596 Enrollment: Limited to 12.

*Joanna Nizynska*

*Half course (spring term). W., 1–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39g. The Book of Hours: Picturing Prayer in the Middle Ages**

Catalog Number: 4824 Enrollment: Limited to 12.

*Jeffrey F. Hamburger*





*Half course (fall term). W., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39k. Literature Humanities: The Foundation Texts of the West**

Catalog Number: 0796 Enrollment: Limited to 12.

*James R. Russell*

*Half course (fall term). Tu., Th., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39n. Literature Humanities: Medieval and Modern Classics**

Catalog Number: 1329 Enrollment: Limited to 12.

*James R. Russell*

*Half course (spring term). Tu., Th., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39o. Cylinder Seals in the Ancient Near East**

Catalog Number: 9085 Enrollment: Limited to 12.

*Irene J. Winter*

*Half course (fall term). Tu., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39s. Arthurian Literature in Medieval Context**

Catalog Number: 0563 Enrollment: Limited to 12.

*Virginie Greene*

*Half course (fall term). W., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39t. Culture and Its Wars**

Catalog Number: 6540 Enrollment: Limited to 12.

*Louis Menand*

*Half course (fall term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39u. Printmaking, Art, and Communication**

Catalog Number: 7082 Enrollment: Limited to 12.

*Henri Zerner*

*Half course (fall term). Th., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39w. The Myth of Love and Self-Discovery**

Catalog Number: 4028 Enrollment: Limited to 12.

*Charles W. M. Henebry*

*Half course (fall term). W., 1–4.*

*Note: Open to Freshmen only.*



**\*Freshman Seminar 39x. How to Design a Communication System: Human, Animal, and Artificial Languages**

Catalog Number: 0045 Enrollment: Limited to 12.

*Andrew Nevins*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39y. Poetry and the Ballad**

Catalog Number: 0046 Enrollment: Limited to 12.

*Peter Sacks*

*Half course (spring term). Th., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 39z. The Novel of Manners: Austen and Woolf**

Catalog Number: 8542 Enrollment: Limited to 12.

*Debra L. Gettelman*

*Half course (spring term). M., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40g. 9/11–The Event and the 9/11 Commission Report**

Catalog Number: 4343 Enrollment: Limited to 12.

*Ernest R. May*

*Half course (fall term). W., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40k. The Economics and History of World Migration**

Catalog Number: 4269 Enrollment: Limited to 12.

*Jeffrey G. Williamson*

*Half course (fall term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40m. The Age of Sail**

Catalog Number: 1173 Enrollment: Limited to 12.

*Joyce E. Chaplin*

*Half course (fall term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40p. Law of the Internet**

Catalog Number: 4509 Enrollment: Limited to 12.

*John G. Palfrey*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

*Prerequisite: A willingness to experiment with new information technologies in a learning environment.*



**\*Freshman Seminar 40s. Bodies and Boundaries**

Catalog Number: 8756 Enrollment: Limited to 12.

*Katharine Park*

*Half course (fall term). M., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40w. War and American Culture since 1941**

Catalog Number: 9356 Enrollment: Limited to 12.

*Andrew J. Huebner*

*Half course (spring term). Tu., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40x. Disco Decade: The 1970s in America**

Catalog Number: 2008 Enrollment: Limited to 12.

*Lisa Szefel*

*Half course (spring term). M., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40y. Histories of the US-Mexico Border**

Catalog Number: 0047 Enrollment: Limited to 12.

*Rachel St. John*

*Half course (fall term). M., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 40z. Corruption**

Catalog Number: 0054 Enrollment: Limited to 12.

*Raymond J. Fisman (Columbia University Business School)*

*Half course (fall term). M., 2–4:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41e. The American Creed: Exceptionalism and Nationalism in Historical Perspective**

Catalog Number: 0058 Enrollment: Limited to 12.

*Amy M. Kittelstrom*

*Half course (fall term). Th., 2–4:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41g. The Faces of Human Rights in Latin America: Anthropological Perspectives**

Catalog Number: 0088 Enrollment: Limited to 12.

*Theodore MacDonald*

*Half course (fall term). Th., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41k. Language and Politics**

Catalog Number: 0091 Enrollment: Limited to 12.



*Fred C. Schaffer*

*Half course (spring term). Th., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41m. The Euclidean Revolution**

Catalog Number: 0048 Enrollment: Limited to 12.

*Mark Schiefsky*

*Half course (fall term). W., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41o. Thinking Like an Economist**

Catalog Number: 1964 Enrollment: Limited to 12.

*Rajeev H. Dehejia (Columbia University)*

*Half course (spring term). Tu., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41p. American Presidential Campaigns and Elections 1960–2004: Is the System Broken?**

Catalog Number: 2004 Enrollment: Limited to 12.

*Maxine Isaacs*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41s. The Confederacy, 1860–1865**

Catalog Number: 2015 Enrollment: Limited to 12.

*Elisabeth L. Laskin*

*Half course (spring term). Tu., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41t. Classical Political Economy**

Catalog Number: 2077 Enrollment: Limited to 12.

*Robert H. Neugeboren*

*Half course (spring term). W., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 41u. Museums**

Catalog Number: 2910 Enrollment: Limited to 12.

*James Hanken*

*Half course (spring term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 43n. Sin and the City: Tales of Historic Kyoto**

Catalog Number: 2120 Enrollment: Limited to 12.

*Mikael Adolphson*

*Half course (spring term). F., 1–4.*



*Note:* Open to Freshmen only. The seminar does not require knowledge of Japanese. An optional field trip to Kyoto is possible if circumstances permit.

**\*Freshman Seminar 43p. Media and the American Mind**

Catalog Number: 0005 Enrollment: Limited to 12.

*Jason A. Kaufman*

*Half course (fall term). Th., 3:30–5:30.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 43w. History, Nationalism, and the World: the Case of Korea**

Catalog Number: 4281 Enrollment: Limited to 12.

*Sun Joo Kim*

*Half course (fall term). W., 1–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 44g. Public Policy Approaches to Global Climate Change**

Catalog Number: 1032 Enrollment: Limited to 12.

*Richard N. Cooper*

*Half course (fall term). W., 1:30–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 44j. The Aztecs and Maya**

Catalog Number: 7826 Enrollment: Limited to 12.

*David L. Carrasco (FAS, Divinity School) and William L. Fash*

*Half course (spring term). W., 1–4.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 44k. A History of Zoos**

Catalog Number: 6327 Enrollment: Limited to 12.

*Rory A. W. Browne*

*Half course (spring term). Th., 2–5.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 44o. China's Red Guard Movement, 1966–1968**

Catalog Number: 4134 Enrollment: Limited to 12.

*Andrew G. Walder (Stanford University)*

*Half course (fall term). W., 3–5.*

*Note:* Open to Freshmen only.

**\*Freshman Seminar 44p. Contemporary India: Fact and Fiction**

Catalog Number: 0019 Enrollment: Limited to 12.

*Rena Fonseca*

*Half course (fall term). Tu., 1–3.*

*Note:* Open to Freshmen only.



**\*Freshman Seminar 44w. Health and Inequality**

Catalog Number: 2973 Enrollment: Limited to 12.

*Jonathan Ian Levy (Public Health) and Daniel I. Wikler (Public Health)*

*Half course (spring term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 45k. The Female Body in Modern America**

Catalog Number: 5464 Enrollment: Limited to 12.

*Karen P. Flood*

*Half course (fall term). M., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 46e. The Germans and Their History**

Catalog Number: 7802 Enrollment: Limited to 12.

*Steven Ozment*

*Half course (fall term). W., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 46j. Science, Technology, and the Good Society**

Catalog Number: 7678 Enrollment: Limited to 12.

*Peter Buck*

*Half course (spring term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 46k. The Sacco and Vanzetti Case: Culture, Politics, and Memory**

Catalog Number: 7863 Enrollment: Limited to 12.

*Lisa M. McGirr*

*Half course (spring term). M., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 46p. Human Rights**

Catalog Number: 8408 Enrollment: Limited to 12.

*Jennifer Leaning (Public Health)*

*Half course (fall term). W., 3–5:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 47e. The Politics of Love and Friendship: The Sources of Human Affiliation in the Family, Society, and the State**

Catalog Number: 0557 Enrollment: Limited to 12.

*Oona Britt Ceder*

*Half course (spring term). Th., 1–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 47k. The Invention of Nature**

Catalog Number: 6260 Enrollment: Limited to 12.

*Robert France (Design School)*



*Half course (fall term). W., 1–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 47t. Globalization: Opportunities and Challenges**

Catalog Number: 1521 Enrollment: Limited to 12.

*Lawrence H. Summers*

*Half course (spring term). M., 7:30–9:30 pm.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 47u. Declarations of Independence: The Political Philosophy of the American Revolution**

Catalog Number: 4718 Enrollment: Limited to 12.

*David R. Armitage*

*Half course (fall term). M., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 47y. Food, Eating, and Diet**

Catalog Number: 1853 Enrollment: Limited to 12.

*Steven Shapin*

*Half course (spring term). M., 12–2.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 48k. Political Legitimacy and Resistance: What Happened in Montaigne's Library on the Night of October 23, 1587, and Why Should Political Philosophers Care?**

Catalog Number: 4798 Enrollment: Limited to 12.

*Arthur I. Applbaum (Kennedy School)*

*Half course (spring term). W., 2:30–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 48n. American Dreams**

Catalog Number: 2426 Enrollment: Limited to 12.

*James T. Kloppenberg*

*Half course (fall term). W., 12–2.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 48u. Race and Nation: The White Experience in Post-Apartheid South Africa**

Catalog Number: 5119 Enrollment: Limited to 12.

*Sadhana Bery*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 48x. Nationalism in Modern Western Europe**

Catalog Number: 5377 Enrollment: Limited to 12.

*Jonathan R. Eastwood*





*Half course (fall term). W., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 48z. Women on the Move: Migration within Asian and Beyond**

Catalog Number: 7568 Enrollment: Limited to 12.

*Nicole D. Newendorp*

*Half course (fall term). M., 4–6.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49e. Globalization: Critical Perspectives**

Catalog Number: 5230 Enrollment: Limited to 12.

*Adam Webb*

*Half course (fall term). W., 3–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49j. Interpreting Chinese History**

Catalog Number: 6664 Enrollment: Limited to 12.

*Endymion P. Wilkinson*

*Half course (fall term). Th., 1–3.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49k. Wealth and Leadership: Two Centuries of Boston's Philanthropy**

Catalog Number: 5767 Enrollment: Limited to 12.

*Peter Dobkin Hall*

*Half course (fall term). Tu., 2–5.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49m. Gay Marriage and Families**

Catalog Number: 6264 Enrollment: Limited to 12.

*Maureen E. Sullivan (Northern Illinois University)*

*Half course (fall term). M., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49p. Childhood and Its Literary Culture**

Catalog Number: 4622 Enrollment: Limited to 12.

*Maria Tatar*

*Half course (fall term). Tu., 2–4.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49v. The Economist's View of the World**

Catalog Number: 2742 Enrollment: Limited to 12.

*Jeffrey Wolcowitz*

*Half course (spring term). Th., 2–4.*

*Note: Open to Freshmen only.*



**\*Freshman Seminar 49w. Latin American Social Movements**

Catalog Number: 8512 Enrollment: Limited to 12.

*Sarah Dix*

*Half course (fall term). W., 3–5:30.*

*Note: Open to Freshmen only.*

**\*Freshman Seminar 49y. Amateur Athletics**

Catalog Number: 4686 Enrollment: Limited to 12.

*Harry R. Lewis*

*Half course (fall term). W., 2–4.*

*Note: Open to Freshmen only.*

***General Education Courses***

**\*General Education 157. Intelligence, Command, and Control: Conference Course**

Catalog Number: 9630 Enrollment: Limited to 15.

*Anthony G. Oettinger*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Examines evolution of the missions, tools, structure, and performance of US intelligence agencies from the *National Security Act (1947)* to the *Intelligence Reform and Terrorism Prevention Act (2004)*. Impact of shifting perceptions of threats to the US on the categorization of activities as intelligence v. law enforcement, civilian v. military, strategic v. tactical, local v. state v. national, or governmental v. private.

*Note:* Students with political, legal, economic, civilian, military, technical, or other backgrounds welcome. Term paper in lieu of final examination; extensive research expected of graduate students. Cross-registration by Law, Business, or Kennedy School students encouraged.

**[General Education 175. Native Americans in the 21st Century: Nation-Building I]**

Catalog Number: 5587

*Joseph P. Kalt (Kennedy School) and guest lecturers*

*Half course (fall term). Hours to be arranged.*

Uses a hands-on, interdisciplinary approach to examine major issues faced by today's Native American bands, tribes, and nations. Includes: sovereignty, economic development, constitutional reform, cultural and language continuity, land and water rights, religious freedom, health and social welfare, and education. Concepts of "nation-building," identity, and leadership, taken from tribal viewpoints, form central themes of the course. All aspects of course placed in a cross-cultural context. Guest presentations are made by Native American students, visiting scholars, and Native American leaders.

*Note:* Expected to be given in 2006–07. Offered jointly with the Kennedy School as PED-501 and with the Graduate School of Education as A-101.

**General Education 186. Introduction to Health Care Policy**

Catalog Number: 4045

*Richard G. Frank (Medical School)*

*Half course (fall term). Tu., Th., 1–2:30; and a weekly section to be arranged. EXAM GROUP: 15, 16*



Provides overview of US health care delivery system, components, and policy challenges. The health care system is considered from different "stake holder" perspectives: analyses roles of patients, patients, providers, health plans, and payers. Considers objectives, constraints, incentives, knowledge, and conduct. Evaluates problems faced by each actor in the system. What makes health care so hard to reform? Can we count on consumerism to improve quality? Reading includes selections from medical sociology, economics, politics, and ethics.  
*Note:* Offered jointly with the Kennedy School as HCP-100. Meets at the Kennedy School.

**[\*General Education 187. The Quality of Health Care in America]**

Catalog Number: 4832 Enrollment: Limited to 35.

*Donald M. Berwick, David Blumenthal (Medical School), Howard H. Hiatt, and Warner V. Slack (Medical School)*

*Half course (spring term). Hours to be arranged.*

Offers information and experiences regarding the most important issues and challenges in health care quality. Overview of the dimensions of quality of care, including outcomes, overuse, underuse, variation in practice patterns, errors and threats to patient safety, service flaws, and forms of waste. Each session focuses on one specific issue, exploring patterns of performance, data sources, costs, causes, and remedies. Explores desirable properties of health care systems that perform at high levels in many dimensions of quality.

*Note:* Expected to be given in 2006–07.

## ***House Seminars***

### ***Primarily for Undergraduates***

All House Seminars are offered for degree credit. House Seminars are normally graded with letter grades; as with other letter-graded courses students may, with the instructor's permission, take House Seminars pass/fail. All House Seminars require the permission of the instructor (\*). Information concerning enrollment in House Seminars should be sought from the appropriate House Office. House Seminars are frequently not repeated from year to year.

### ***Currier***

#### **\*Currier 79 (formerly \*Currier 129). Medicine, Law, and Ethics: An Introduction**

Catalog Number: 9614 Enrollment: Limited to 20.

*Shahram Khoshbin (Medical School)*

*Half course (fall term). M., 7–9 pm. EXAM GROUP: 9*

Explores medical, legal, and ethical aspects of medical care, with particular attention to medical decision-making at the beginning and end of life, participants in research on human subjects, human reproductive technologies, mental illness, and experimentation on animals. Historical background of present-day medical practices and relevant law to be discussed.

*Note:* All students are welcome, but this seminar is particularly geared to pre-medical and pre-law students.

### ***Dunster***



**\*Dunster 71. Histories of Dunster House, 1930–2005**

Catalog Number: 1611 Enrollment: Limited to 20.

*Roger B. Porter (Kennedy School)*

*Half course (spring term). Hours to be arranged.*

Students will explore the historical development of Dunster House as a residential community within the broader Harvard house system through diverse sources, ranging from documentary records to oral interviews. This research seminar will encourage students to reflect upon methods and purposes in local and institutional histories. Students will devise independent research topics under the guidance of the instructors. Assessment will be based on these research papers, presentations, and class participation.

***Eliot***

**[\*Eliot 79 (formerly \*Eliot 129). Nutrition and Public Health]**

Catalog Number: 1497 Enrollment: Limited to 20.

*Clifford Lo*

*Half course (spring term). Hours to be arranged.*

Introduction to the critical reading of technical nutrition and medical literature; surveys current issues in public health and public policy relating to nutrition. Critical analysis of different types of medical literature: historical monographs, metabolic laboratory observations, clinical case reports, epidemiological surveys, prospective randomized controlled trials, metaanalyses, and literature reviews. Prepares science and non-science concentrators to examine critically current controversies for themselves; requires active participation and presentation by students.

*Note:* Expected to be given in 2006–07. Clinical rounds with Nutrition Support Services at Children’s Hospital are optional.

***Leverett***

**[\*Leverett 74 (formerly \*Leverett 104). Sigmund Freud and C. S. Lewis: Two Contrasting World Views]**

Catalog Number: 0773 Enrollment: Limited to 20.

*Armand M. Nicholi II (Medical School)*

*Half course (spring term). Hours to be arranged.*

Focuses on “scientific” Weltanschauung (world view) of Freud as a key to his life and work. Examines the world view Freud attacks through readings from C. S. Lewis and letters between Freud and Oskar Pfister, Swiss psychoanalyst and theologian. Themes: source of morality and ethics, human sexuality, problem of pain and human suffering, definition of happiness and reason that unhappiness prevails, role of different categories of love in human relationships, and “the painful riddle of death.”

*Note:* Expected to be given in 2006–07. Please see offerings of the department of English and American Literature and Language.

***Mather***

**\*Mather 78. Four Alienated Literary Visionaries**

Catalog Number: 6152 Enrollment: Limited to 20.



*James R. Russell*

*Half course (spring term). W., 7–10 pm. EXAM GROUP: 9*

Considers issues of literature, culture, and politics in the life and work of four 20th-century American writers living in Cambridge. Each interpreted a remote culture and set of problems to contemporaries, in attempting to resolve personal and social alienation: T. S. Eliot, Delmore Schwartz, Vladimir Nabokov, and William S. Burroughs. They enriched an American literature that is still in formation; and the four writers, spanning the modernist and post-modern epochs, are now in its mainstream.

## African and African American Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of African and African American Studies*

Henry Louis Gates, Jr., W.E.B. Du Bois Professor of the Humanities (*Chair*)

Emmanuel K. Akyeampong, Harvard College Professor and Professor of History and of African and African American Studies (*on leave 2005-06*)

Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies (*on leave 2005-06*)

Glenda R. Carpio, Assistant Professor of African and African American Studies and of English and American Literature and Language (*on leave fall term*)

Kimberly McClain DaCosta, Assistant Professor of African and African American Studies and of Social Studies

Marla F. Frederick, Assistant Professor of African and African American Studies and of the Study of Religion (*on leave 2005-06*)

Evelynn M. Hammonds, Professor of the History of Science and of African and African American Studies

Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies (*on leave 2005-06*)

Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies (*on leave fall term*)

Francis Abiola Irele, Visiting Professor of African and African American Studies and of Romance Languages and Literatures

Robin D. G. Kelley, Visiting Professor of African and African American Studies (*Columbia University*) (*fall term only*)

Jamaica Kincaid, Visiting Lecturer on African and African American Studies and on English and American Literature and Language

Michael R. Kremer, Gates Professor of Developing Societies (*on leave 2005-06*)

Nike S. Lawal, Preceptor in African and African American Studies



J. Lorand Matory, Professor of Anthropology and of African and African American Studies  
Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment  
John M. Mugane, Senior Preceptor in African and African American Studies (*Director of the African Language Program*)  
Susan E. O'Donovan, Associate Professor of African and African American Studies and of History  
Mark Sawyer, Visiting Associate Professor of African and African American Studies (*University of California, Los Angeles*) (*fall term only*)  
Tommie Shelby, John L. Loeb Associate Professor of the Social Sciences (*on leave 2005-06*)  
Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies  
James Sidanius, Professor of Psychology and of African and African American Studies  
Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies (*Acting Director of Graduate Studies*)  
John Stauffer, Professor of English and American Literature and Language and Professor of African and African American Studies (*Director of Undergraduate Studies*)  
John K. Thornton, Visiting Professor of African and African American Studies, Fellow in the W.E.B. Du Bois Institute (*Boston University*) (*fall term only*)  
Deborah Willis, Visiting Professor of African and African American Studies (*New York University*) (*spring term only*)  
William Julius Wilson, Lewis F. and Linda L. Geyser University Professor

### ***Other Faculty Offering Instruction in African and African American Studies***

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)  
Wallace D. Best, Assistant Professor of African American Religious Studies (*Divinity School*)  
Homi K. Bhabha, Anne F. Rothenberg Professor of English and American Literature and Language  
Vincent Brown, Assistant Professor of History (*on leave 2005-06*)  
Orlando Patterson, John Cowles Professor of Sociology (*on leave spring term*)  
Mark R. Warren, Associate Professor of Education (*Education School*)

### ***Primarily for Undergraduates***

#### **[African and African American Studies 10. Introduction to African and African American Studies](#)**

Catalog Number: 0802

*Evelynn M. Hammonds*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

An exploration of some of the key texts and issues in African and African American Studies from a range of disciplinary perspectives. Members of the faculty deliver guest lectures in their own areas of specialization.

*Note:* Required of concentrators. Students who transfer into the concentration after their sophomore year may substitute another African and African American Studies course already



taken if they satisfy the Director of Undergraduate Studies that it establishes a basic familiarity with the materials covered in African and African American Studies 10. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

### **African and African American Studies 20. Introduction to African Languages and Cultures**

Catalog Number: 2048

*John M. Mugane*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

An introduction to African languages and cultures. Explores language use by sub-Saharan Africans to understand, organize, and transmit indigenous knowledge to successive generations. Language serves as a road map to understanding how social, political, and economic institutions and processes develop: from kinship structures, the evolution of political offices, trade relations, to the transfer of environmental knowledge.

### ***African Languages***

Language classes are open to undergraduates, graduate students, and cross-registration applicants.

### ***Gikuyu***

#### **Gikuyu A. Elementary Gikuyu**

Catalog Number: 0009

*John M. Mugane*

*Full course (indivisible). Hours to be arranged.*

Gikuyu is a Bantu language spoken by Kenya's most populous ethnic group. The Gikuyu are among Africa's most recognized peoples because of the Mau Mau freedom fighters who were mainly Gikuyu.

*Note:* The course is designed primarily for students who have no prior knowledge of Gikuyu; however, students with minimal knowledge of the language may also register for the course. Not open to auditors.

#### **Gikuyu B. Intermediate Gikuyu**

Catalog Number: 0010

*John M. Mugane and assistant*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Continuation of Gikuyu A. Gikuyu is a Bantu language spoken by Kenya's most populous ethnic group. The Gikuyu are among Africa's most recognized peoples because of the Mau Mau freedom fighters who were mainly Gikuyu.

*Note:* Not open to auditors.

*Prerequisite:* Gikuyu A or the equivalent of one year's study in Gikuyu.

#### **Gikuyu 101ar. Reading in Gikuyu**

Catalog Number: 0017





*John M. Mugane and assistant*  
*Half course (fall term). Hours to be arranged.*  
*Note: Not open to auditors.*  
*Prerequisite: Gikuyu A or equivalent.*

**Gikuyu 101br. Reading in Gikuyu II**

Catalog Number: 0018  
*John M. Mugane and assistant*  
*Half course (spring term). Hours to be arranged.*  
*Note: Not open to auditors.*  
*Prerequisite: Gikuyu 101a or equivalent.*

***Swahili***

**Swahili A (formerly African and African American Studies 121). Elementary Swahili**

Catalog Number: 1878  
*John M. Mugane*  
*Full course (indivisible). Spring: M., W., F., at 10. EXAM GROUP: Spring: 3*  
A study of the *lingua franca* of East Africa at the elementary level. Contact hours supplemented by language lab sessions. Emphasis on written expression, reading comprehension, and oral fluency.  
*Note: Not open to auditors.*

**Swahili B. Intermediate Swahili**

Catalog Number: 3442  
*John M. Mugane and assistant*  
*Half course (fall term; repeated spring term). Hours to be arranged.*  
Continuation of Swahili A. A study of the *lingua franca* of East Africa at the elementary level. Contact hours supplemented by language lab sessions. Emphasis on written expression, reading comprehension, and oral fluency.  
*Note: Not open to auditors.*  
*Prerequisite: Swahili A or the equivalent of one year's study of Swahili.*

**Swahili 101ar. Reading in Swahili**

Catalog Number: 8503  
*John M. Mugane and assistant*  
*Half course (fall term). Hours to be arranged.*  
*Prerequisite: Swahili A or equivalent.*

**Swahili 101br (formerly African and African American Studies 121b). Reading in Swahili II**

Catalog Number: 7746  
*John M. Mugane and assistant*  
*Half course (spring term). Th., 4–6. EXAM GROUP: 18*  
*Prerequisite: Swahili 101a or equivalent.*



## **Twi**

### **Twi A. Elementary Twi**

Catalog Number: 0023

*Nike S. Lawal*

*Full course (indivisible). Hours to be arranged. . EXAM GROUP: Fall: 18; Spring: 17, 18*

Twi is one of the regional languages of the Akan speaking peoples of Ghana, constituting the largest ethnic group in Ghana. Twi, is fast becoming the *lingua franca* of the country. This course aims to help students acquire the Twi language at the basic or elementary level.

*Note:* The course is designed primarily for students who have no prior knowledge of Twi; however, students with minimal knowledge of the language may also register for the course. Not open to auditors.

### **Twi B. Intermediate Twi**

Catalog Number: 0025

*Nike S. Lawal and assistant*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Continuation of Twi A. Twi is one of the regional languages of the Akan speaking peoples of Ghana constituting the largest ethnic group in Ghana. Twi, is fast becoming the *lingua franca* of the country. The Akan people are well known for their art and culture, especially the traditional colorful Kente cloth.

*Note:* Not open to auditors.

*Prerequisite:* Twi A or the equivalent of one year's study of Twi.

### **Twi 101ar. Reading in Twi**

Catalog Number: 0026

*Nike S. Lawal and assistant*

*Half course (fall term). Hours to be arranged.*

*Note:* Not open to auditors.

*Prerequisite:* Twi A or equivalent.

### **Twi 101br. Reading in Twi II**

Catalog Number: 0028

*Nike S. Lawal*

*Half course (spring term). Hours to be arranged.*

*Note:* Not open to auditors.

*Prerequisite:* Twi 101a or equivalent.

## **Yoruba**

### **Yoruba A. Elementary Yoruba**

Catalog Number: 0029

*Nike S. Lawal*

*Full course (indivisible). Spring: M., at 2. EXAM GROUP: Fall: 18; Spring: 7*

Yoruba is spoken in the West African countries of Nigeria, Benin Republic, and parts of Togo and Sierra Leone, therefore constituting one of the largest single languages in sub-Saharan



Africa. Yoruba is also spoken in Cuba and Brazil. Students will acquire the Yoruba language at the basic or elementary level.

*Note:* Primarily designed for students who have no prior knowledge of Yoruba. However, students with minimal knowledge of the language may also register for the course. Not open to auditors.

### **Yoruba B. Intermediate Yoruba**

Catalog Number: 0031

*Nike S. Lawal*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Continuation of Yoruba A. Yoruba is spoken in the West African countries of Nigeria, Benin Republic, and parts of Togo and Sierra Leone, therefore constituting one of the largest single languages in sub-Saharan Africa. Yoruba is also spoken in Cuba and Brazil. Students will acquire the Yoruba language at the basic or elementary level.

*Note:* Not open to auditors.

*Prerequisite:* Yoruba A or the equivalent of one year's study of Yoruba.

### **Yoruba 101ar. Reading in Yoruba**

Catalog Number: 0033

*Nike S. Lawal and assistant*

*Half course (fall term). Hours to be arranged.*

*Note:* Not open to auditors.

*Prerequisite:* Yoruba A or equivalent.

### **Yoruba 101br. Reading in Yoruba II**

Catalog Number: 0035

*Nike S. Lawal and assistant*

*Half course (spring term). Hours to be arranged.*

*Note:* Not open to auditors.

*Prerequisite:* Yoruba 101a or equivalent.

## ***Undergraduate Tutorials***

### **\*African and African American Studies 90r. African Language Tutorials**

Catalog Number: 7010

*John M. Mugane and Nike S. Lawal*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Individualized study of an African language at the elementary level. Contact hours with language coach. Emphasis on written expression, reading comprehension and oral fluency. The following languages can be taken: Bambara, Hausa, Igbo, Malagasy, and Zulu.

*Note:* For instruction in languages that are not listed, please consult the Director of the African Language Program. Not open to auditors.

### **\*African and African American Studies 91r. Supervised Reading and Research**

Catalog Number: 1269

*Evelynn M. Hammonds (fall term), John Stauffer (spring term) and members of the Department*



*Half course (fall term; repeated spring term). Hours to be arranged.*

Students wishing to enroll must petition the Director of Undergraduate Studies for approval, stating the proposed project, and must have permission of the proposed instructor. Ordinarily, students are required to have taken some coursework as background for their project.

**African and African American Studies 97a. Introduction to African and African American Studies: The Music of the African Diaspora**

Catalog Number: 1439

*Ingrid Monson*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

This course focuses on the relationship between Africa and the music of the Americas. Specific attention will be paid to the retention of African musical modalities in African American music. Included will be the US, the Caribbean, and other Latin American countries.

**African and African American Studies 97b. Topics in African American History and Society: Changing Concepts of Blackness**

Catalog Number: 2393

*Kimberly McClain DaCosta*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

This course introduces topics in African American society and history by focusing on a general theme-changing concepts of blackness. Using a wide range of empirical and theoretical materials, we problematize what constitutes “race” and “blackness.” We explore issues of class division, regional variation, immigration, intermarriage, sexuality and gender, the social conditions which give rise to such formations, and their relation to political and cultural constructions of blackness.

**\*African and African American Studies 98. African American Tutorial**

Catalog Number: 6272

*Evelynn M. Hammonds (fall term), John Stauffer (spring term) and members of the Department*  
*Half course (fall term; repeated spring term). Hours to be arranged.*

Students wishing to enroll must petition the Director of Undergraduate Studies for approval, stating the proposed project, and must have the permission of the proposed instructor. Ordinarily, students are required to have taken some coursework as background for their project.

*Prerequisite:* Completion of African and African American Studies 10, or a substitute course approved by the Head Tutor.

**\*African and African American Studies 98a. African Tutorial**

Catalog Number: 3070

*Evelynn M. Hammonds (fall term), John Stauffer (spring term) and members of the Department*  
*Half course (fall term; repeated spring term). Hours to be arranged.*

Students wishing to enroll must petition the Director of Undergraduate Studies for approval, stating the proposed project, and must have the permission of the proposed instructor. Ordinarily, students are required to have taken some coursework as background for their project.

*Prerequisite:* Completion of African and African American Studies 10 or a substitute course approved by the Head Tutor.



**\*African and African American Studies 99. Senior Thesis Workshop**

Catalog Number: 8654

*Evelynn M. Hammonds (fall term), John Stauffer (spring term) and members of the Department*  
*Full course. Hours to be arranged.*

Thesis supervision under the direction of a member of the Department.

*Note:* Enrollment limited to honors candidates.

***For Undergraduates and Graduates***

**African and African American Studies 116. Autobiography and Literary Imagination**

Catalog Number: 8935

*Jamaica Kincaid*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Looks at how subject people imagine themselves. Reading Walcott, Rhys, Soyinka and Fanon, among others.

**African and African American Studies 118. African-American History from the Slave Trade to 1900**

Catalog Number: 7429

*Susan E. O'Donovan*

*Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8*

An introduction to African-American history and the role black men and women have played in the cultural, economic, and political life of the US. Topics will include the rise of slavery; the American Revolution and the problem of slavery; African-American social, economic, and cultural life in the antebellum North and South; the struggle for freedom during the Civil War and Reconstruction; and African-Americans in the age of segregation and disenfranchisement.

**African and African American Studies 120. States and Commerce in Atlantic Africa, 1450–1850**

Catalog Number: 4074

*John K. Thornton (Boston University)*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course attempts to give a deeper African background to the history of the Americas by focusing on the history of the regions most involved in the slave trade. Rather than focusing on this trade, however, we will examine the political and economic structures that formed the involvement between Africa and the Atlantic world. In addition, the course studies how these events shaped the attitudes and circumstances of Africans who crossed the Atlantic.

**African and African American Studies 122. Caribbean Women Writers**

Catalog Number: 5897

*Jamaica Kincaid*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Focuses primarily on the women writers from the English-speaking region of the West Indies. The readings include fiction, nonfiction, and poetry.



**African and African American Studies 125. Black Intellectuals and the Politics of Liberation**

Catalog Number: 7159

*Robin D. G. Kelley (Columbia University)*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

An examination of the lives and works of black intellectuals who attempted to map out a different future for America. Rather than a comprehensive survey of black intellectuals, we will focus our attention on ten figures whose writings and activism promoted a politics of transformation: T. Thomas Fortune, Ida B. Wells, Amy Jacques Garey and Marcus Garvey, Paul Robeson, Ella Baker, Martin Luther King, Jr., Lorraine Hansberry, James Baldwin, and Audre Lorde.

**[African and African American Studies 127. Marxist Theories of Racism]**

Catalog Number: 3133

*Tommie Shelby*

*Half course (spring term). Hours to be arranged.*

Marx himself doesn't say much about racism. However, many social scientists and historians have attempted to extend Marx's ideas to explain the phenomena of racial oppression and racial antagonism. We critically examine several Marxist and neo-Marxist accounts of racial ideology, the construction of racial identities, the relationship between class exploitation and racial subordination, and the role of capitalist development and expansion in creating racial inequality.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 129. African American Philosophy]**

Catalog Number: 8380

*Tommie Shelby*

*Half course (fall term). Hours to be arranged.*

An examination of several vexing questions that arise when one reflects philosophically on the black experience in America. Topics include the perplexities of black identity, the moral and political significance of communal solidarity, racial justice and reparations, aesthetic judgment and cultural authenticity, the ethics of interracial intimacy, and the very idea of a distinctive African American philosophical tradition.

*Note:* Expected to be given in 2006–07.

**African and African American Studies 131. African-American Literature to the 1920s**

Catalog Number: 2589

*Glenda R. Carpio*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Close readings of major writers in the context of cultural history. I) Literature and folk culture in the slavery period: Phillis Wheatley, Olaudah Equiano, Omar Ibn Said, Victor Séjour, Lydia Maria Child, Fredrick Douglass, Harriet Beecher Stowe, William Wells Brown, Frank Webb, Martin Robison Delany, and Harriet Jacobs. II) "Post-bellum, pre-Harlem": Charles W. Chesnutt, Paul Laurence Dunbar, Pauline Hopkins, Du Bois, Booker T. Washington, and James Weldon Johnson. We examine diverse genres—from slave narratives, novels and poems to plays, speeches and song lyrics.



**[African and African American Studies 133. Topics in the History of Slavery]**

Catalog Number: 1090

*Susan E. O'Donovan*

*Half course (spring term). Hours to be arranged.*

Slavery in the Americas stands out for its emphasis on labor, the millions of lives it consumed, and the many legacies it bequeathed. The course contemplates New World slavery from a comparative perspective, giving special attention to the enslaved, the worlds they inherited, and the worlds they made.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 134z. Reading Thomas Jefferson and The African in America]**

Catalog Number: 9959

*Jamaica Kincaid*

*Half course (spring term). Hours to be arranged.*

“We hold these truths to be self-evident: that all men are created equal....” The author of those words was Thomas Jefferson, third president of the US; but who might have needed them more, the author and President or a contemporary of his, a man he owned named Jupiter. A look through his writings into the world of Thomas Jefferson and the influence the enslaved African had upon him. Special attention will be paid to “The Declaration of Independence,” “Notes on the State of Virginia,” and “The Farm and Garden Book.”

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 136. Black and White in Drama and Film]**

Catalog Number: 7974

*Werner Sollors*

*Half course (spring term). Hours to be arranged.*

Focus is on the development of “serious” dramas and problem films in their relationship to the traditions of tragedy and melodrama. Readings from Aeschylus to Rita Dove accompanied by film screenings from *Veiled Aristocrats* to *Anna Lucasta*.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 139. The “African American” Experience in Latin America and the Spanish Caribbean](#)**

Catalog Number: 3657

*Mark Sawyer (University of California, Los Angeles)*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

The experience of the people of African descent in the Americas is not broadly understood. This class will look at the culture, history, politics, and identity of “African Americans” in the Spanish and Lusophone Caribbean, South America, and Central America. Countries examined will include Cuba, Brazil, Columbia, Mexico, Nicaragua, the Dominican Republic, Venezuela, and Puerto Rico. We will also explore issues of identity in the context of migration to the US.

**[African and African American Studies 140z. The Other African Americans](#)**

Catalog Number: 0300

*J. Lorand Matory*





*Half course (spring term). W., 4–6. EXAM GROUP: 9*

We survey the history and contemporary experiences of self-identified “mixed-race” groups, as well as voluntary immigrant groups from Africa and the Caribbean, such as Cape Verdeans, Nigerians, Jamaicans, Afro-Puerto Ricans, and Haitians in the US. Students are introduced to arguments central to the social scientific study of modern societies generally, such as the invention of ethnicity, and negotiation of identity, and the social constructedness of race.

**[African and African American Studies 141. Afro-Atlantic Religions]**

Catalog Number: 3336

*J. Lorand Matory*

*Half course (spring term). Hours to be arranged.*

Investigates the spiritual, political, and economic lives of millions around the Atlantic perimeter who worship African gods: West and Central Africans, Cubans, Brazilians, Haitians, and North Americans. For them, the gods are sources of power, organization, and healing amid the local political dominance of Muslims and Christians and the seismic expansion of international capitalism—conditions which themselves require significant attention. Lectures focus on such themes as women’s empowerment and the construction of gender in these religions, while a series of in-class discussions with priests will propose its own themes.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3692.

**African and African American Studies 167x. Body and the Lens**

Catalog Number: 3666

*Deborah Willis (New York University)*

*Half course (spring term). W., 2–4 and a weekly section to be arranged. EXAM GROUP: 7, 8*

This interdisciplinary seminar explores the range of ideas and methods used by critical thinkers in addressing the body in photography, video, and film. Central to our discussions will be a focus on how the display of the black body affects how we see and interpret the world. Using a series of case studies, we will consider political images, race, and hip-hop culture.

**[African and African American Studies 168. Visual Culture of Latina and African-American Women]**

Catalog Number: 5551

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*Half course (spring term). Hours to be arranged.*

Examines contemporary art made by African-American and Latina women working in North America. Special attention is given to various approaches to writing about raced and gendered artistic production taken over the last three decades. Throughout the course, we contrast critical with academic essays and traditional artistic approaches with post-modern practices.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 172. Changing Concept of Race in America: Science and Medicine]**

Catalog Number: 6634

*Evelynn M. Hammonds*

*Half course (fall term). Hours to be arranged.*

Examines the history of concepts of race in science and medicine from the 17th century to the



present. Topics include: debates about the origins of races, racial classification, race and disease, race and evolution, race and anthropology, race and eugenics, and race and genetics. We compare various conceptions of scientific and medical racism and challenges to these ideas by scientists and physicians.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 173. African Art and Colonialism: King Leopold's Congo]**

Catalog Number: 0307

*Suzanne P. Blier*

*Half course (fall term). Hours to be arranged.*

This class will explore African colonialism from the vantage of late 19th to early 20th century Congo, and specifically an extraordinary corpus of indigenous ivory carvings—some in local Boston collections—that present Europeans and Africans in this era. Slavery, trade, tourism, literary tropes, and religion (both Christian and traditional) are among the issues that will be examined, as students work toward the creation of a real or virtual exhibition of this material.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 182. Rhythm and Blues, Soul and Funk]**

Catalog Number: 4282

*Ingrid Monson*

*Half course (spring term). Hours to be arranged.*

Focuses on the history of African American popular music from R&B to Funk, with particular attention to the interplay among music and African American cultural and political consciousness. A variety of critical approaches to the study of popular music are also introduced.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 183. The African-American Experience in Film: 1930–1970]**

Catalog Number: 6790

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*Half course (spring term). Hours to be arranged.*

A social and cultural survey of the black American in film, assuming the point of view that much of the performance functioned as a subversive form of communication. The pride widely believed to have launched these films was actually a façade for the formidable voltage of rage that fueled the charisma of black screen presences from Bill “Bojangles” Robinson to Bill Cosby.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 184. Women and Religious Expression in 20th-Century African-American History]**

Catalog Number: 1857

*Marla F. Frederick*

*Half course (spring term). Hours to be arranged.*

From Jonestown to the Nation of Islam to Buddhism and the Baptist Church, this course explores the various ways in which African American women have used religion as a means of



interpreting their American experience. By a close examination of ethnographies of religious performance, spiritual autobiographies, historical texts and documentary film, this course gives special attention to the different methodologies employed in the study of religious experience.

*Note:* Expected to be given in 2006–07.

### **African and African American Studies 185. Perspectives in the African Novel**

Catalog Number: 6764

*Francis Abiola Irele*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

We examine a representative selection of African novels with a view to grasping the development of the genre from the double heritage of the oral tradition and the literate conventions of the West. The African novel will be studied in relation to the dominant themes—colonialism, social and cultural change, the post-colonial dilemma—and the textual strategies adopted by the novelists in their rendering of the African experience in modern times.

### **[African and African American Studies 186. The Art of the Harlem Renaissance]**

Catalog Number: 5483

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*Half course (fall term). Hours to be arranged.*

This course explores the creative artistic production (painting, sculpture, film, and theatre) of African Americans between the World Wars in several cities including New York, Paris, San Francisco, and Chicago. Artists examined include Sargent Johnson, William H. Johnson, Lois M. Jones, Josephine Baker, and Aaron Douglas. Contemporary writing on the arts by Alain Locke, Langston Hughes, Gertrude Stein and others will be read.

*Note:* Expected to be given in 2006–07.

### **African and African American Studies 190. African-American Families: Politics, Culture, Experience**

Catalog Number: 9440

*Kimberly McClain DaCosta*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

“The Black Family” has often been at the center of political debates about social policy, including welfare reform and crime. Such debates tend to obscure the particular historical, social, and economic circumstances that shape African American family life and posit a unidimensional black family experience. We explore the diversity of black family life—by class, region, family composition, and gender—and link social structure to how families form, function, and change.

### **[African and African American Studies 191. The Civil Rights Movement: Seminar]**

Catalog Number: 0897

*Evelyn Brooks Higginbotham*

*Half course (spring term). Hours to be arranged.*

Explores the movement from its integrationist period in the 1950s and early 1960s to the heyday of militant black power in the late 1960s and early 1970s. Attention given to grassroots community activism, the contribution of nationally prominent individuals and organizations, and the changing of American laws, society, and the state.

*Note:* Expected to be given in 2006–07.



**[African and African American Studies 193. Religion and Social Change in Black America]**

Catalog Number: 8058

*Marla F. Frederick*

*Half course (fall term). Hours to be arranged.*

Religion, as experienced in churches and mosques alike, has inspired new meanings of black subjectivity, history, and politics. From protest oriented struggles for civil rights to the personal responsibility calls of the Million Man March, religion has informed how Blacks engage the challenges of everyday life in America. Through ethnography, auto/biography and documentary film, this class examines the influence that the social reality of blackness and the religious expression of faith have had on the day to day existence of people of African descent in the US.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 194. African-American Religious History]**

Catalog Number: 0036

*Wallace D. Best (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Tracing the origins and development of African American religion(s) in the United States, this course focuses on “what is Black Religion?” while discussing the diverse nature of black faith in the US. We will explore the relationship between religion(s) and African-American cultural forms (music, literature, and the visual arts), paying particular attention to the importance of socio-economic class and region. Themes will include black political thought; black women and religion; and “Afro-centric Christianity.”

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2334.

**[African and African American Studies 194y. Langston’s “Salvation”: Race, Religion, and the Harlem Renaissance]**

Catalog Number: 0037 Enrollment: Limited to 20.

*Wallace D. Best (Divinity School)*

*Half course (spring term). Hours to be arranged.*

The Harlem Renaissance of the 1920s is most often depicted as “the flowering of African American arts and literature.” It can also be characterized as a period of emergence for diverse forms of African American religious expressions, ideologies, and institutions. This course will explore the literature and visual arts of the Harlem Renaissance to understand the pivotal intersection of race and religion during this time of black “cultural production.”

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2335.

**[African and African American Studies 195. The American Sermon: Homiletics in the Mainstream and on the Margins](#)**

Catalog Number: 0039 Enrollment: Limited to 10.

*Wallace D. Best (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course will examine sermonic texts and recordings from the era of the “Great Awakenings” of the late eighteenth and early nineteenth centuries up to the 1970s. We will explore these homilies, placing both them and their authors in historical context. We want to discover not only the theological perspectives contained in the sermons but also the cultural, social, economic, and



political situations in the US that helped shape them.

*Note:* Offered jointly with the Divinity School as 2337.

**[African and African American Studies 195y. Black Gospel Music: A History]**

Catalog Number: 0041

*Wallace D. Best (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Black Gospel has been called the “sacred sister to the blues.” Like the blues, it is a musical genre deeply rooted in the African American experience. This course traces the history of Black Gospel from its “modern” origins in 1930s Chicago, popularized by Thomas Dorsey and Mahalia Jackson, into the 1990s mainstream. Analyzing songs from each period, we will explore how the music has tended to reflect and critique the current cultural climate.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2336.

**[\*African and African American Studies 196. Sociological Perspectives on Racial Inequity in America: Seminar]**

Catalog Number: 7202

*William Julius Wilson*

*Half course (spring term). Hours to be arranged.*

Examines classical and contemporary works on racial inequality in America. Different conceptions of the social, economic, and political situations that affect the state and nature of race relations are critically analyzed, as well as the different views on race and social policy.

*Note:* Expected to be given in 2006–07. Offered jointly with the Kennedy School as HLE-209. Students must attend the first meeting to enroll.

***Primarily for Graduates***

**[African and African American Studies 218. Topics in African American History]**

Catalog Number: 9951

*Susan E. O’Donovan*

*Half course (spring term). Hours to be arranged.*

Explores new perspectives on Afro-American History from the slave trade to 1900. Central themes include black people’s lives and labor in slavery and freedom, black culture, and African American influences on national political discourse. Special attention will be paid to the changing dynamics of class, gender, and race.

*Note:* Expected to be given in 2006–07.

**[African and African American Studies 241. Topics in African American Social Science](#)**

Catalog Number: 3668

*Mark Sawyer (University of California, Los Angeles)*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

This course is an intensive introduction to major theories and paradigms in the study of African American politics. The course includes works in american politics, comparative politics, and political theory.

***Graduate Courses***



**\*African and African American Studies 301. Graduate Seminar**

Catalog Number: 3120

*Werner Sollors 7424 and members of the Department*

*Half course (fall term). Tu., 12–2.*

Students are introduced to major themes, debates, and texts in the broad interdisciplinary field of African-American Studies. We focus on humanities and literary and cultural studies. For more information about this course, please visit the following website:

[www.courses.fas.harvard.edu/3120](http://www.courses.fas.harvard.edu/3120).

*Note:* Required for all graduates in African and African American Studies in their first year. Ordinarily only graduate students affiliated with the program are permitted to attend.

**\*African and African American Studies 302. Graduate Seminar**

Catalog Number: 7559

*Werner Sollors 7424 and members of the Department*

*Half course (spring term). Tu., 12–2.*

Students are introduced to major themes, debates and texts in the broad interdisciplinary field of African-American Studies. African and African American Studies 302, in the spring term, focuses on the social sciences. For more information about this course, please visit the following website: [www.courses.fas.harvard.edu/7559](http://www.courses.fas.harvard.edu/7559).

*Note:* Required for all graduates in African and African American Studies in their first year and ordinarily only graduate students affiliated with the program will be permitted to attend.

**\*African and African American Studies 310. Individual Reading Tutorial**

Catalog Number: 1374

*Emmanuel K. Akyeampong 3421 (on leave 2005-06), Ali S. Asani 7739 (on leave 2005-06), Homi K. Bhabha 4100, Suzanne P. Blier 3472 (on leave 2005-06), Vincent Brown 4638 (on leave 2005-06), Glenda R. Carpio 4408 (on leave fall term), Kimberly McClain DaCosta 4182, Marla F. Frederick 4728 (on leave 2005-06), Henry Louis Gates, Jr. 2899, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Jennifer L. Hochschild 3785 (on leave fall term), Michael R. Kremer 2112 (on leave 2005-06), J. Lorand Matory 3098, Ingrid Monson 1591, Susan E. O'Donovan 3962, Orlando Patterson 1091 (on leave spring term), Tommie Shelby 3863 (on leave 2005-06), Kay Kaufman Shelemay 3483, James Sidanius 5371, Werner Sollors 7424, John Stauffer 1006, Mark R. Warren (Education School) 2010, and William Julius Wilson 2401*

Allows students to work with an individual member of the faculty in a weekly tutorial.

*Note:* Students may not register for this course until their adviser and the faculty member with whom they plan to work have approved a program of study.

**\*African and African American Studies 390. Individual Research**

Catalog Number: 4046

*Emmanuel K. Akyeampong 3421 (on leave 2005-06), Ali S. Asani 7739 (on leave 2005-06), Homi K. Bhabha 4100, Suzanne P. Blier 3472 (on leave 2005-06), Vincent Brown 4638 (on leave 2005-06), Kimberly McClain DaCosta 4182, Marla F. Frederick 4728 (on leave 2005-06), Henry Louis Gates, Jr. 2899, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Jennifer L. Hochschild 3785 (on leave fall term), Michael R. Kremer 2112 (on leave 2005-06), J. Lorand Matory 3098, Ingrid Monson 1591, Susan E. O'Donovan 3962,*





*Orlando Patterson 1091 (on leave spring term), Tommie Shelby 3863 (on leave 2005-06), Kay Kaufman Shelemay 3483, Werner Sollors 7424, John Stauffer 1006, Mark R. Warren (Education School) 2010, and William Julius Wilson 2401*

Requires students to identify a research project and carry it out under the guidance of a member of the faculty. Graduate students may use this course to begin to work on the research paper that is a requirement of admission to candidacy.

**\*African and African American Studies 391. Directed Writing**

Catalog Number: 4587

*Emmanuel K. Akyeampong 3421 (on leave 2005-06), Ali S. Asani 7739 (on leave 2005-06), Homi K. Bhabha 4100, Suzanne P. Blier 3472 (on leave 2005-06), Vincent Brown 4638 (on leave 2005-06), Francis Fiorenza (Divinity School) 2735 (on leave 2005-06), Marla F. Frederick 4728 (on leave 2005-06), Henry Louis Gates, Jr. 2899, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Jennifer L. Hochschild 3785 (on leave fall term), Michael R. Kremer 2112 (on leave 2005-06), J. Lorand Matory 3098, Ingrid Monson 1591, Susan E. O'Donovan 3962, Orlando Patterson 1091 (on leave spring term), Tommie Shelby 3863 (on leave 2005-06), Kay Kaufman Shelemay 3483, Werner Sollors 7424, John Stauffer 1006, Mark R. Warren (Education School) 2010, and William Julius Wilson 2401*

Requires students to identify a major essay and carry it out under the guidance of a member of the faculty. Graduate students may use this course to begin to work on the research paper that is a requirement of admission to candidacy.

**\*African and African American Studies 399. Direction of Doctoral Dissertations**

Catalog Number: 8411

*Emmanuel K. Akyeampong 3421 (on leave 2005-06), Homi K. Bhabha 4100, Suzanne P. Blier 3472 (on leave 2005-06), Marla F. Frederick 4728 (on leave 2005-06), Henry Louis Gates, Jr. 2899, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Jennifer L. Hochschild 3785 (on leave fall term), J. Lorand Matory 3098, Ingrid Monson 1591, Susan E. O'Donovan 3962, Orlando Patterson 1091 (on leave spring term), Tommie Shelby 3863 (on leave 2005-06), Kay Kaufman Shelemay 3483, Werner Sollors 7424, and William Julius Wilson 2401*

***Cross-listed Courses of Interest to Students Pursuing the African Track***

**[Anthropology 1750. Syncretism: Seminar]**

**[Anthropology 2770 (formerly Anthropology 277). Development Dilemmas]**

**[Ethiopic A. Introduction to Classical Ethiopic \(Ge'ez\)](#)**

**[Ethiopic 120ar. Readings in Classical Ethiopic (Ge'ez) Texts I]**

**[Ethiopic 120br. Readings in Classical Ethiopic (Ge'ez) Texts II]**

**\*Ethiopic 300. Ethiopian Semitic Language and Literature**

**[Foreign Cultures 86. West African Cultures](#)**

**[French 70c. Introduction to French Literature III: The Francophone World]**

**[French 195 \(formerly French 277\). The African and Caribbean Novel in French: Comparative Perspectives](#)**

**[Government 2162. Perspectives on Political Economy]**

**[Historical Study A-21. Africa and Africans: The Making of a Continent in the Modern](#)**





## World

[Historical Study B-52. Slavery and Slave Trade in Africa and the Americas]

**\*History 90g. Major Themes in Latin American History**

[History 1912. Health, Disease, and Ecology in African History: Conference Course]

[History of Art and Architecture 196. Contemporary Art in Africa]

**Literature and Arts B-78. Soundscapes: Exploring Music in a Changing World**

**\*Social Studies 98gh. Economic Development in Africa**

## *Cross-listed Courses of Interest to Students Pursuing the African American Track*

**Anthropology 1600 (formerly Anthropology 110). Introduction to Social Anthropology**

[\*Economics 1357. Historical Perspectives on American Economic Ascendancy]

**Economics 1812. The US Labor Market**

[Economics 1815. Social Problems of the American Economy]

[\*English 90vh. Harlem Renaissance]

**English 167p. Postcolonial Narratives**

[\*English 276x. African-American Literary Tradition: Graduate Seminar]

[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance as a Medium of Cultural and Personal Meaning]

**Foreign Cultures 86. West African Cultures**

**French 42. Introduction au monde francophone**

[Government 90km. The Political Economy of Africa]

[Government 90oa. Inequality and American Democracy]

**\*Government 1968. International Politics in the Middle East**

[Government 2335. Power in American Society]

**Government 2392. American Political Ideologies**

[Historical Study B-52. Slavery and Slave Trade in Africa and the Americas]

[History 1611. American Revolutions in the Atlantic World]

[History 1612. African Diaspora in the Americas]

[History 1664. African American Intellectual History: Conference Course]

[History 1912. Health, Disease, and Ecology in African History: Conference Course]

[History 2908. Sources, Methodology, and Themes in African History: Seminar]

[History of Art and Architecture 19x. Introduction to African American Art History]

[History of Art and Architecture 193. Painting Traditions in Africa]

[History of Art and Architecture 196. Contemporary Art in Africa]

[History of Science 149. Medical Technologies in Historical Perspective: Conference Course]

[History of Science 259. Theories of Race and/in Science: Seminar]

[Literature and Arts B-82. Sayin' Something: Jazz as Sound, Sensibility, and Social Dialogue]

**Moral Reasoning 58. Slavery in Western Political Thought**

**Music 194r. Special Topics: Proseminar**

[Religion 1549. Media, Religion, and Social Meaning]

**Religion 1631. Hindu Traditions of Devotion**

**Social Analysis 52. The Political Economy of Development**



[Social Analysis 66. Race, Ethnicity, and Politics in the United States](#)

[\\*Visual and Environmental Studies 152r. Intermediate Video Workshop: Studio Course](#)

## African Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on African Studies*

Emmanuel K. Akyeampong, Harvard College Professor and Professor of History and of African and African American Studies (*Chair*) (*on leave 2005-06*)

Francis Abiola Irele, Visiting Professor of African and African American Studies and of Romance Languages and Literatures (*Acting Chair*)

Rawi Abdelal, Assistant Professor of Business Administration (*Business School*)

Leila Ahmed, Victor S. Thomas Professor of Divinity (*Divinity School*) (*on leave 2005-06*)

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Robert H. Bates, Eaton Professor of the Science of Government

Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies (*on leave 2005-06*)

Prudence L. Carter, Associate Professor of Sociology

Felton James Earls, Professor of Social Medicine and Professor of Human Behavior and Development in the School of Public Health and Child Psychiatry (*Medical School*)

Caroline M. Elkins, Hugh K. Foster Associate Professor of African Studies

Majid Ezzati, Assistant Professor of International Health (*Public Health*)

Wafaie W. Fawzi, Associate Professor of Nutrition and Epidemiology (*Public Health*)

Deborah D. Foster, Senior Lecturer on Folklore and Mythology

Henry Louis Gates, Jr., W.E.B. Du Bois Professor of the Humanities

Suzanne G. Lewis, Assistant Professor of Education (*School of Education*)

Allan G. Hill, Andelot Professor of Demography (*Public Health*)

Michael D. Jackson, Visiting Professor of World Religions (*Divinity School*)

Calestous Juma, Professor of the Practice of International Development (*Kennedy School*)

Saidi H. Kapiga, Assistant Professor of International Health (*Public Health*)

Michael R. Kremer, Gates Professor of Developing Societies (*on leave 2005-06*)

Nike S. Lawal, Preceptor in African and African American Studies

Harry S. Martin III, Professor of Law and Library (*Law School*)

J. Lorand Matory, Professor of Anthropology and of African and African American Studies

Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment



John M. Mugane, Senior Preceptor in African and African American Studies  
Matthias Schündeln, Assistant Professor of Economics and of Social Studies  
Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies  
Debora L. Spar, Spangler Family Professor of Business Administration (*Business School*)  
Paul Stopforth, Lecturer on Visual and Environmental Studies  
Lucie E. White, Lewis A. Horvitz Professor of Law (*Law School*)  
Richard K. Wolf, Harris K. Weston Associate Professor of the Humanities

The Committee on African Studies is a multidisciplinary group of scholars appointed by the Dean of the Faculty of Arts and Sciences to coordinate teaching and research on Africa within Harvard's departments and faculties. It is primarily concerned with the planned development of African studies in the University as a whole. Since it is also the Committee's goal to advance knowledge and understanding of African peoples throughout the University, it sponsors lectures, seminars, conferences, films, and exhibitions on Africa. Its non-credit Africa Seminar is open to all faculty members and students. The Committee offers undergraduate summer grants for senior honors thesis study and graduate dissertation research grants for travel to Africa. Students can subscribe to a weekly e-mail listing of Harvard Africa events by writing to [rbreen@fas.harvard.edu](mailto:rbreen@fas.harvard.edu). For additional information on African studies at Harvard, consult the Committee's website at [www.fas.harvard.edu/~cafrica](http://www.fas.harvard.edu/~cafrica) or email [cafrica@fas.harvard.edu](mailto:cafrica@fas.harvard.edu).

Undergraduates interested in pursuing a degree in African Studies should consult the African and African American Studies chapter in this catalog. That department also offers a number of courses on African topics and has an African language program, which teaches over ten languages.

The following FAS departments offer courses on Africa. A more detailed description of these courses may be found in this catalog under the appropriate department or committee.

*Departments with Courses of Interest:*

Core Curriculum  
Freshman Seminar  
African and African American Studies  
Anthropology  
Economics  
English and American Literature and Language  
Folklore and Mythology  
Government  
History  
History of Art and Architecture  
Music  
Near Eastern Languages and Civilizations  
Romance Languages and Literatures  
Study of Religion  
Social Studies



Visual and Environmental Studies In addition to the departmental offerings in the Faculty of Arts and Sciences, courses on Africa can also be found in the catalogs of the Schools of Public Health, Education, Law, Divinity, Business, and the Kennedy School of Government.

## Anthropology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Anthropology*

Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology (*FAS*) and Professor of Psychiatry and Medical Anthropology (*Medical School*) (*Chair*)  
 Ofer Bar-Yosef, George Grant MacCurdy and Janet G. B. MacCurdy Professor of Prehistoric Archaeology  
 John C. Barry, Lecturer on Anthropology  
 Theodore C. Bestor, Professor of Anthropology  
 David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America (*FAS, Divinity School*) (*on leave fall term*)  
 Steven C. Caton, Professor of Contemporary Arab Studies (*on leave 2005-06*)  
 Judith F. Chapman, Lecturer on Anthropology  
 Paulette G. Curtis, Lecturer on Anthropology  
 Peter T. Ellison, John Cowles Professor of Anthropology (*on leave 2005-06*)  
 William L. Fash, Bowditch Professor of Central American and Mexican Archaeology and Ethnology  
 Rowan K. Flad, Assistant Professor of Anthropology  
 Michael Herzfeld, Professor of Anthropology  
 Engseng Ho, Frederick S. Danzinger Associate Professor of Anthropology and of Social Studies  
 Carole K. Hooven, Lecturer on Anthropology  
 Alain Houle, Lecturer on Anthropology  
 Cheryl D. Knott, Associate Professor of Anthropology  
 Smita Lahiri, Assistant Professor of Anthropology  
 C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology  
 Catalina Laserna, Lecturer on Anthropology  
 Daniel E. Lieberman, Professor of Anthropology  
 Susan F. Lipson, Lecturer on Anthropology  
 Francine Lorimer, Lecturer on Anthropology, Associate of the Department of Anthropology  
 Frank W. Marlowe, Associate Professor of Anthropology  
 J. Lorand Matory, Professor of Anthropology and of African and African American Studies  
 Richard H. Meadow, Senior Lecturer on Anthropology



David Pilbeam, Henry Ford II Professor of Human Evolution (*on leave spring term*)  
Jeffrey Quilter, Senior Lecturer on Anthropology  
Maryellen Ruvolo, Professor of Anthropology (*on leave fall term*)  
Mary M. Steedly, Professor of Anthropology  
Ajantha Subramanian, Assistant Professor of Anthropology and of Social Studies (*on leave 2005-06*)  
Lucien G. Taylor, Assistant Professor of Visual and Environmental Studies and of Anthropology  
Kimberly Theidon, Assistant Professor of Anthropology (*on leave spring term*)  
Noreen Tuross, Landon T. Clay Professor of Scientific Archaeology  
Jason A. Ur, Assistant Professor of Anthropology  
Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies (*on leave 2005-06*)  
James L. Watson, Harvard College Professor and John King and Wilma Cannon Fairbank Professor of Chinese Society (*Head Tutor*)  
Rubie S. Watson, Senior Lecturer on Anthropology  
Richard W. Wrangham, Ruth Moore Professor of Biological Anthropology  
Marc U. Zender, Lecturer on Anthropology (*spring term only*)

***Other Faculty Offering Instruction in Anthropology***

Jocelyne Cesari, Visiting Associate Professor of Islamic Studies (*Divinity School*)  
Byron J. Good, Professor of Medical Anthropology (*Medical School*)  
Theodore MacDonald, Lecturer on Social Studies  
Sally F. Moore, Victor S. Thomas Professor of Anthropology, *Emeritus*  
Lawrence E. Stager, Dorot Professor of the Archaeology of Israel (*on leave spring term*)  
Nur Yalman, Research Professor of Social Anthropology and of Middle Eastern Studies

Within the field of concentration there are three special fields: Archaeology, Biological Anthropology, and Social Anthropology. For the requirements in these special fields, consult the Undergraduate Office of the department.

Department of Anthropology course listings are numerically ordered as follows:

1000-1299 and 2000-2299: Archaeology

1300-1599 and 2300-2599: Biological Anthropology

1600-1999 and 2600-2999: Social Anthropology

***Primarily for Undergraduates***

**\*Anthropology 91r. Supervised Reading and Research**

Catalog Number: 2537

James L. Watson

*Half course (fall term; repeated spring term). Hours to be arranged.*

Special study of selected topics in Anthropology, given on an individual basis and directly supervised by a member of the Department. May be taken for a letter grade or Pass/Fail. To



enroll, a student *must submit a petition form* (available from the Anthropology Undergraduate Office, William James 352, or downloadable from the department's website), signed by the adviser under whom he or she wishes to study, and a proposed plan of study.

**\*Anthropology 92r. Research Methods in Museum Collections**

Catalog Number: 7712

James L. Watson

*Half course (fall term; repeated spring term). Hours to be arranged.*

Special (individual) study of Peabody Museum collections directly supervised by a faculty member and a member of the curatorial staff. Requires a project involving a Harvard Museum collection, developed in consultation with the supervisors.

*Note:* Must be taken for a letter grade. Priority given to students in Anthropology and related departments. To enroll, *submit a petition form* (available from the Undergraduate Office, William James 352), signed by both supervisors, a proposed research agenda, during the term preceding the term of enrollment. Information sheets with Museum contacts available in William James 352.

**\*Anthropology 99. Tutorial — Senior Year**

Catalog Number: 5830

James L. Watson

*Full course. Hours to be arranged.*

Research and writing of the Senior Thesis. Limited to honors candidates. Signature of the faculty adviser required.

***Archaeology***

***Primarily for Undergraduates***

**\*Anthropology 97x. Sophomore Tutorial in Archaeology**

Catalog Number: 0400

Richard H. Meadow

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

The sophomore tutorial provides a background in archaeological method and theory, particularly focusing on small-scale societies. Specific topics include the origin of anatomically modern humans, the peopling of the New World, and the nature of small-scale societies in both modern and ancient contexts. Weekly readings (drawn from the current journal literature), discussions, several short writing assignments.

*Note:* Required of all concentrators.

**\*Anthropology 98xa. Junior Tutorial in Archaeology**

Catalog Number: 2959

Richard H. Meadow

*Half course (fall term). W., 1–3.*

The junior tutorial provides a background in archaeological method and theory through critical analysis of selected issues and debates particularly focusing on more complex societies. Specific topics include the origins of agriculture and the domestication of animals, the development of



complexity and “civilization”, post-colonial and historical archaeology, and related ethical and theoretical issues. Weekly readings (drawn from current journal literature), discussions, several short writing assignments.

*Note:* Required of all concentrators in Archaeology.

**\*Anthropology 98xb. Junior Tutorial in Archaeology**

Catalog Number: 3568

*Richard H. Meadow*

*Half course (spring term). Hours to be arranged.*

This individual tutorial for archaeology students intending to write a senior thesis is normally undertaken with a member of the faculty during the second term of junior year. To enroll, a student *must submit a petition form* (available from the Anthropology Undergraduate Office, William James 352, or downloadable from the department’s website) with a proposed course plan of study and the tutorial adviser’s signature.

*Note:* Required of candidates for honors in Archaeology.

***For Undergraduates and Graduates***

**Anthropology 1010 (formerly Anthropology 101). Introduction to Archaeology**

Catalog Number: 8727

*Rowan K. Flad and Jason A. Ur*

*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

A comprehensive introduction to the practice of archaeology and major themes from our human past: How do archaeologists know where to dig? How do we analyze and understand what we find? What do we know about the origins of the human species, agriculture, cities, and civilization? The lecture/laboratory format integrates methods and theory, and utilizes Peabody Museum collections, to provide an overview of analytic and interpretive techniques to reconstruct ancient diet, trade, and political systems.

**[Anthropology 1040 (formerly Anthropology 140). Origins of the Food We Eat]**

Catalog Number: 1837

*Ofer Bar-Yosef and Richard H. Meadow*

*Half course (fall term). Hours to be arranged.*

Focuses on arguably the most significant transition in the human past, namely, that from hunting-gathering to agriculture and pastoralism. Covers the emergence of cultivation, adoption of plant foods, and domestication of animals in key regions of Asia and Latin America. Considers the spread of foods across the world during pre- and early history and beginning ca 1500 AD.

Discusses the contributions of archaeology, climatology, botany, zoology, genetics, and linguistics to these topics.

*Note:* Expected to be given in 2006–07. Given in alternate years.

**Anthropology 1050. Nutritional Biochemistry and Isotope Ecology**

Catalog Number: 4580

*Noreen Tuross*

*Half course (fall term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

Are you what you eat? A review of the compounds in food and the processing, metabolism and





incorporation of lipids, carbohydrates and protein into tissues. Special emphasis will be put on the isotopic relationship of the consumer and the consumed, on the use of light stable isotopes to determine of trophic levels, and paleodietary reconstructions.

*Prerequisite:* Background in Chemistry (Chem 17) or Biology (B51 or B55) or permission of instructor.

**Anthropology 1060 (formerly Anthropology 166). Archaeological Science**

Catalog Number: 2013

Noreen Tuross

*Half course (spring term). M., 7–10 p.m. EXAM GROUP: 9*

Focus on physical science and engineering methods and techniques used by archaeologists in the reconstruction of time, space, and human paleocology, and analysis of archaeological materials. Topics include <sup>14</sup>C dating, ice core and palynological analysis, stable isotope chemistry of palaeodietary foodwebs, soil micromorphology and site formation, Pb isotope sourcing of metal artifacts, and microstructural and mechanical analyses of cementitious materials used in ancient monumental buildings.

*Note:* Meets at MIT.

*Prerequisite:* One year of college-level chemistry or physics.

**Anthropology 1065. GIS and Spatial Analysis in Archaeology**

Catalog Number: 3729 Enrollment: Limited to 8.

Jason A. Ur

*Half course (spring term). M., at 4 and four hours of laboratory weekly. EXAM GROUP: 9*

An introduction to the GIS and remote sensing methods used by archaeologists to document and analyze datasets at the regional scale. This class will involve the hands-on use of maps, aerial photography, satellite imagery, digital terrain models and GPS-based observations to frame and approach archaeological research questions. Labs will use sample datasets from a variety of regions but students will be responsible for assembling a GIS database for their own region of interest.

**[Anthropology 1080. North American Prehistory]**

Catalog Number: 5190

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*Half course (fall term). Hours to be arranged.*

Archaeology and culture history of Native North America, from first colonization over 12,000 years ago, to the arrival of Europeans. Topics include intellectual and scientific contexts of the discipline's development; theories and debates over the arrival of modern humans in the New World; adaptations to changing Holocene environmental conditions; trends in cultural evolution on a continental scale; the development of agriculture and emergence of complexity; dynamic contact period interactions; current political relationships and ethical issues.

*Note:* Expected to be given in 2006–07.

**[Anthropology 1090. Ethnography and Archaeology]**

Catalog Number: 8716

Gary Urton

*Half course (spring term). Hours to be arranged.*



Archaeologists often draw on ethnographic studies of Western and non-Western societies as sources of explanation for ancient cultural practices. But the questions remain: How valid is the use of ethnographic analogy in the study of the past? What assumptions do archaeologists make about past social processes in their uses of ethnographic studies? These are some of the questions addressed in this course.

*Note:* Expected to be given in 2007–08.

### **[Anthropology 1120. Comparative Analysis of Ancient Civilizations]**

Catalog Number: 7474

*C. C. Lamberg-Karlovsky*

*Half course (fall term). Hours to be arranged.*

An analysis of the similarities and differences in the emergence of Mesopotamia, Egypt, Central Asia, and the Indus Valley. Economic, political, and religious systems are compared as are technology and demography.

*Note:* Expected to be given in 2006–07.

### **Anthropology 1130. Archaeology of Harvard Yard**

Catalog Number: 1634

*William L. Fash*

*Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8*

Archaeological data recovered from Harvard Yard provide a richer and more nuanced view of the 17th through 19th century lives of students and faculty in Harvard Yard, an area that includes the Old College and Harvard Indian College. Students will excavate in Harvard Yard and process and analyze artifacts and report on the results. Additional topics to be covered include regional historical archaeology, research design, surveying, archival research, stratigraphy, and artifact analysis.

### **[\*Anthropology 1140. Human Modification of the Landscape]**

Catalog Number: 5898

*Noreen Tuross*

*Half course (fall term). Hours to be arranged.*

Northern New England provides the archaeologist and environmental scientist with a natural experiment in land clearing due to the agricultural practices of humans and the subsequent reforestation of the ecosystem. This course will concentrate on laboratory methods usable onsite to uncover evidence of past land use and change. The following approaches will be explored in the context of a historic farm site: soil phosphate composition and distribution, FTIR (Fourier-transform infrared spectroscopy), pollen and phytolith analysis, and an introduction to mobile molecular biology.

*Note:* Expected to be given in 2006–07. This course has a 10-day residential component prior to the start of the term.

### **[Anthropology 1170. Mesoamerican Writing Systems ]**

Catalog Number: 3706

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*Half course (spring term). Hours to be arranged.*

This course presents a survey of selected writing systems from the Precolumbian civilizations of



Mexico, Guatemala and Belize, sampling the results of recent decipherments and examining what historical writings can tell us about the past. Although all of the known writing systems of Mesoamerica will be touched upon, emphasis will be on the fully phonetic scripts of this region (i.e., the Maya, Aztec and Isthmian scripts), specifically their origins, development and sociopolitical uses.

*Note:* Expected to be given in 2007–08.

**[Anthropology 1174 (formerly Anthropology 174). The Incas]**

Catalog Number: 5311

Gary Urton

*Half course (spring term). Hours to be arranged.*

An introduction to the archaeology of the Incas beginning with an overview of pre-Inca civilizations of Andean South America. Attempts to understand how the Inca integrated the varied peoples and resources of the Andes into a unified empire. Ends with an overview of the destruction and transformation of Inka society and culture under Spanish colonialism. Studies Inka materials in the Peabody Museum collection.

*Note:* Expected to be given in 2006–07.

**[Anthropology 1175 (formerly Anthropology 175). The Archaeology of Ethnicity]**

Catalog Number: 1022

Gary Urton

*Half course (spring term). Hours to be arranged.*

Ethnic identity and conflict are among the most powerful processes and relations shaping the world we live in today. Questions addressed include: What can we understand about ethnic identity and relations in the prehistoric world on the basis of the archaeological record? For example, how might differences in material culture represent and reflect markers of ethnic identity? The Peabody Museum collections will provide materials for study and analysis.

*Note:* Expected to be given in 2006–07.

**Anthropology 1176. Ancient Cultures of the Andes**

Catalog Number: 5393

Jeffrey Quilter

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

In the 16th century the Inca ruled one of the world's largest empires. They were only the end, however, of millennia of cultural processes including the rise of other empires, religious cults, engineering feats, technical developments, and artistic wonders, in jungles, mountains, and deserts. This course will introduce the student to the rich tapestry of the ancient peoples and cultures of South America with special emphasis on the Central Andes (chiefly, modern Peru).

**[Anthropology 1177 (formerly Anthropology 177). South American Archaeology]**

Catalog Number: 6996

Gary Urton

*Half course (fall term). Hours to be arranged.*

Provides an overview of Pre-Columbian civilizations on the continent of South America from the earliest record of human habitation to the time of the European invasion, in the sixteenth century. Focuses on the archaeology of the Amazon and Orinoco rivers, the Andes, and the



Pacific coast of Peru and Chile. Extensive use will be made of the South American collections in the Peabody Museum.

*Note:* Expected to be given in 2006–07.

**Anthropology 1210. The Archaeology of Early China**

Catalog Number: 1793

*Rowan K. Flad*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

A survey of the archaeology of China from the Neolithic (ca. 10,000 BCE) through the end of the Bronze Age (ca. 220 BCE), with an emphasis on the emergence of complex society during the late Neolithic and Early Bronze Age. We survey important archaeological finds from these periods and examine relevant issues in anthropological archaeology. Sections will involve the discussion of materials from the Peabody and Sackler Museums.

**Anthropology 1215. The Neolithic Revolution in Southwestern Asia**

Catalog Number: 5286

*Ofer Bar-Yosef*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The course will bring the updated information on the origin of agriculture in a particular area where farming communities emerged and later served as the foundations for ancient civilizations. Detailed archaeological evidence will facilitate the discussion of theoretical issues.

**[Anthropology 1220. Human Evolution: The Record of the Material Culture]**

Catalog Number: 4504

*Ofer Bar-Yosef*

*Half course (spring term). Hours to be arranged.*

Discussions and presentations of archaeological finds (stone, bone and wooden tools, hearths, site spatial organization, etc.) from the earliest Stone Age some 2.5 million years ago through the transition to Neolithic farming and herding communities.

*Note:* Expected to be given in 2006–07.

***Primarily for Graduates***

**[\*Anthropology 2000. Osteoarchaeology Lab]**

Catalog Number: 0363 Enrollment: Limited to 12.

*Richard H. Meadow*

*Half course (fall term). Hours to be arranged.*

Introduction to the osteoarchaeological analysis. Identification of animal bones and teeth from archaeological sites using comparative materials and their characterization employing visual, metric, and microscopic methods.

*Note:* Expected to be given in 2006–07. Given in alternate years. Open to qualified undergraduates. Fulfills laboratory course requirement for archaeology graduate students.

**Anthropology 2010ar. Materials in Ancient Societies: Bone (Human Osteology)**

Catalog Number: 7163

*C. C. Lamberg-Karlovsky*



*Half course (fall term). M., 2–3:30; W., 1–5. EXAM GROUP: 7, 8*

This course reviews in detail human skeleton anatomy and forensic methods for the study of biological and cultural features in ancient individuals and populations. Laboratory sessions involve team analysis of an archaeological mortuary sample.

*Note:* Open to senior undergraduates with permission of instructor.

### **Anthropology 2010br. Materials in Ancient Societies: Bone (Zooarchaeology)**

Catalog Number: 1753

*C. C. Lamberg-Karlovsky*

*Half course (spring term). Hours to be arranged.*

This course covers interpretive and methodological aspects of zooarchaeology, the study of animal remains from archaeological sites. Lectures explore case studies, while labs teach analytical methods, including tooth thin-section analysis.

*Note:* Anthropology 2010ar is commonly taken before Anthropology 2010br.

### **Anthropology 2025. From Hunter-Gatherers to First Farmers**

Catalog Number: 1647

*Ofer Bar-Yosef and Richard H. Meadow*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

The seminar will focus on critical reading of literature on hunting and gathering societies and the earliest farming communities in various parts of the world, evaluating models of the transition and their social implications.

*Note:* Seminar is open to undergraduates.

### **Anthropology 2050 (formerly Anthropology 252). Introduction to Maya Hieroglyphs**

Catalog Number: 3684

*Marc U. Zender*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Examines Mayan civilization through an intensive examination of its hieroglyphic writing system. Emphasizes recent advances in decipherment and in the understanding of the Classic Mayan language, highlighting the utility of textual data to archaeological interpretation.

### **[Anthropology 2060. Holy War, the Aztec Empire, and the Spanish Conquest]**

Catalog Number: 4170

*Davíd L. Carrasco (FAS, Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course focuses on the cultural constructions of “holy war” in the Aztec Empire and the Spanish conquest of Mexico. We utilize religious studies and archaeology to compare the religious dimensions of Aztec and Spanish holy warfare.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3839.

### **Anthropology 2063. Ancient Landscapes**

Catalog Number: 4736

*Jason A. Ur*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Archaeological approaches to settlement and land use at the regional scale. Issues will include



settlement systems, agricultural and pastoral systems, the role of humans environmental change, and also the methods used to investigate them.

**\*Anthropology 2070a (formerly \*Anthropology 207). Archaeological Method and Theory: Seminar**

Catalog Number: 4634

*C. C. Lamberg-Karlovsky*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Examines historical development and philosophical basis of Anglo-American archaeological method and theory. Special attention given to current controversies including the processualist-postprocessualist debate and the future of archaeology in changing social and political climates.

*Note:* Required of students in the Archaeology Program of Anthropology; open to other graduate students and advanced undergraduates with permission of instructor.

**Anthropology 2070b. Case Studies and Research Proposal Preparation**

Catalog Number: 4238

*Noreen Tuross*

*Half course (spring term). W., 9–11. EXAM GROUP: 2, 3*

Seminar for graduate students that will focus on grant and paper writing, and will also include selected case studies.

*Note:* Anthropology 2070a is commonly taken before Anthropology 2070b, but is not a prerequisite. Required of students in the Archaeology Program of Anthropology; open to other graduate students and advanced undergraduates with permission of instructor.

**Anthropology 2090. The Archaeology of Diasporas and Trade: Seminar**

Catalog Number: 4951

*Rowan K. Flad*

*Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8*

An exploration of diasporas in archaeological contexts. Topics include trade (particularly trade diasporas), world-systems, culture contact, ethnicity, shared material culture, and regional religious traditions.

**[Anthropology 2175. The Inca Quipu]**

Catalog Number: 0329

*Gary Urton*

*Half course (spring term). Hours to be arranged.*

An examination of the principal Inca record-keeping device. We read studies on quipu record keeping from Pre-Columbian through early colonial times, and study the quipus in the Peabody Museum.

*Note:* Expected to be given in 2007–08.

**[Anthropology 2240. Archaeology of Production: Seminar]**

Catalog Number: 8589

*Rowan K. Flad*

*Half course (spring term). Hours to be arranged.*

An exploration of production in archaeological contexts. Topics include specialization, craft



production, production and power, the practice/performance of production, production and gender, ritualized production, and the production of memory.

*Note:* Expected to be given in 2007–08.

### ***Cross-listed Courses***

**[Ancient Near East 105. History of the Ancient Near East: The Levant (up to Alexander the Great)]**

**[Ancient Near East 115. Archaeology of the Levant (Syria-Palestine)]**

[\*\*Ancient Near East 117. Biblical Archaeology\*\*](#)

[\*\*Ancient Near East 118. Syro-Palestinian Pottery\*\*](#)

**[\*Ancient Near East 215r. Problems in the Archaeology of Bronze and Iron Age Levant: Seminar]**

[\*\*Foreign Cultures 34. Mesoamerican Civilizations\*\*](#)

[\*\*History 1140. Introduction to Medieval Archaeology\*\*](#)

**[Indian Studies 110. History of South Asia to 1200 CE]**

[\*\*Medieval Studies 211. The Archaeology and History of European Towns, 500–1000\*\*](#)

[\*\*Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States\*\*](#)

### ***Biological Anthropology***

#### ***Primarily for Undergraduates***

[\*\*\\*Anthropology 97y. Sophomore Tutorial in Biological Anthropology\*\*](#)

Catalog Number: 3170

*Daniel E. Lieberman*

*Half course (spring term). Hours to be arranged.*

An introduction to the issues and methods of biological anthropology, including evolutionary theory and its application to humans. Focuses on the comparison of primate and human physiology and social behavior as ecological adaptations and their application to understanding human evolution. Weekly readings, discussions, and short writing assignments, with a final research paper and presentation.

*Note:* Required of and limited to biological anthropology concentrators.

#### ***For Undergraduates and Graduates***

[\*\*Anthropology 1310 \(formerly Anthropology 111\). Behavioral and Reproductive Endocrinology\*\*](#)

Catalog Number: 2265

*Judith F. Chapman*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

An introduction to the interaction between hormones and behavior, emphasizing research in primates, especially humans. General principles of endocrine physiology are presented. Next, the course focuses on sexual differentiation and the organizing and activation effects of hormones on the brain. Then we will explore the ecology of human reproduction, including the hormonal





regulation of life history strategy, energy metabolism, mating, seasonality, and parental behavior. Delves into the hormones and the psyche.

### **Anthropology 1320 (formerly Anthropology 131). Hunter-Gatherers**

Catalog Number: 5359

*Frank W. Marlowe*

*Half course (fall term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

The ethnographic literature on hunter-gatherers is examined from an evolutionary, ecological perspective. Cross-cultural variation in diet, foraging practices, technology, residence, reproduction, and cooperation are analyzed.

### **Anthropology 1330 (formerly Anthropology 106). Primate Social Behavior**

Catalog Number: 4332

*Alain Houle*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A review of the behavioral interactions in natural primate populations, drawing on experimental, observational, and theoretical studies. Discussion of ecological, physiological, and developmental bases of primate social behavior, with special attention to the evolution of patterns of behavioral interactions among individuals of different age, sex, relatedness, and status. Topics include sexual conflict, sexual selection, and mating systems; care of offspring and other aid-giving; manipulative and cooperative aspects of communication; competition, dominance, and territoriality; and the evolution of social relationships.

*Prerequisite:* Introductory biology or Science B-29 or permission of Instructor.

### **[Anthropology 1340 (formerly Anthropology 134). Race and Racism in Evolutionary Perspective]**

Catalog Number: 3916

*Frank W. Marlowe*

*Half course (spring term). Hours to be arranged.*

A cross-species and cross-cultural examination of the roots of group conflict and cooperation that today manifest themselves in human ethnocentrism, racism, and religious and class conflicts. To this end, human biological variation and its causes are surveyed, and the formation of ethnic groups investigated.

*Note:* Expected to be given in 2006–07.

### **Anthropology 1360. Human Evolution**

Catalog Number: 8292

*John C. Barry*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly section to be arranged. EXAM GROUP: 12, 13*

What makes us human? We will explore this question from a biological perspective by surveying human evolution, from the appearance of our earliest ancestors to the emergence of our own species. Evolutionary theory, behavioral ecology, molecular systematics, and functional morphology, in combination with hands-on examination of fossil materials, are used to reconstruct how and why humans evolved. Emphasis is placed on developing a broader biological framework for the study of human adaptation and evolution.



**Anthropology 1365. Sex Differences in Humans**

Catalog Number: 3432 Enrollment: Limited to 15.

*Carole K. Hooven*

*Half course (spring term). Th., 6–8 pm. EXAM GROUP: 18*

Why are men and women different? This course will use an evolutionary perspective to investigate the significance of sex differences in human physiology, behavior and cognition. Students will gain a grounding in the biological processes that lead to differences in male and female bodies and brains. We'll then discuss topics such as sex differences in cognition and dominance behavior, emphasizing the role of sex hormones.

**Anthropology 1368. Evolution of Human Sex Differences**

Catalog Number: 1210

*Carole K. Hooven*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

This course uses an evolutionary perspective to explore differences between human males and females. Lectures will present evidence of differences in physiology, behavior, and cognition, and in discussions students will critically examine the relevant literature. We will cover topics such as sex differences in dominance behavior, parenting, sexuality, and aggression, emphasizing the role of sex hormones.

**Anthropology 1370 (formerly Anthropology 137). Evolution and Human Behavior**

Catalog Number: 6675

*Frank W. Marlowe*

*Half course (spring term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

Human behavior is examined across modes of subsistence and in relation to other species. Topics include life history, optimal foraging, parental care, mating systems, cooperation, morality, social stratification, and cultural evolution.

*Prerequisite:* Science B-29 or permission of instructor.

**\*Anthropology 1375. Testosterone and Human Behavior**

Catalog Number: 6933 Enrollment: Limited to 15.

*Judith F. Chapman*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

An exploration of current research in human behavior and testosterone, including the relationships between normal variation in testosterone and variation in traits such as cognition, aggression, personality traits, and sexual behavior within both males and females. Medical uses of testosterone, such as anabolic steroids, hormone replacement therapy, and reassignment, are explored.

*Note:* Preference given to biological anthropology concentrators.

**Anthropology 1380 (formerly Anthropology 138). The Behavioral Biology of Women**

Catalog Number: 8721

*Cheryl D. Knott*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An exploration of female behavior focusing on evolutionary, physiological, and biosocial aspects of women's lives from puberty, through reproductive processes such as pregnancy, birth,



lactation, to menopause and aging. Also explores female life history strategies in different cultural settings. Topics include cognitive and behavioral differences between men and women; violence against women; and women's reproductive health choices. Examples are drawn from traditional and modern human societies and data from nonhuman primates are considered.

**Anthropology 1390. Extracting Behavior from the Paleoanthropological Record: Seminar**

Catalog Number: 1237

*Daniel E. Lieberman, David Pilbeam, and Richard W. Wrangham*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Discussion will focus on the problems of inferring hominid behavioral evolution from the fossil record and from comparative skeletal data. Issues to be discussed include diet, locomotion, social organization, and language.

*Prerequisite:* Science B-27, Science B-29, and Anthropology 1420 are recommended.

**Anthropology 1410 (formerly Anthropology 114). Evolution of Human Sexuality: Research Seminar**

Catalog Number: 8546 Enrollment: Limited to 10.

*Frank W. Marlowe*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

An examination of human sexuality in evolutionary perspective. Topics include sexual selection, mate preferences, mating systems, sex differences, and sexual orientation, among other things. Students collect original data and analyze them for their research projects, with feedback from the class.

*Note:* Preference given to anthropology undergraduates.

*Prerequisite:* Science B-29 or permission of instructor.

**\*Anthropology 1412. Evolutionary Ecology: Research Seminar**

Catalog Number: 1783

*Richard W. Wrangham*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

A seminar format for exploring research topics that can be developed into Honors Theses. Focus is on questions about human evolutionary biology.

**Anthropology 1415 (formerly Anthropology 115). Primate Evolutionary Ecology: Research Seminar**

Catalog Number: 6341

*Cheryl D. Knott*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

An exploration of interactions between primates and their environments in an evolutionary context. Lectures discuss the influence of ecological processes on primate behavioral and morphological adaptations. Topics include environmental influences on social structure, mating systems, ranging and intergroup spacing, diet and nutrition, juvenile development, and reproductive and energetic physiology. Comparisons between the great apes are emphasized. Projects will involve learning methods of primate observation, energetic analysis and ecological investigation to explore socioecological questions using local vertebrates.

*Prerequisite:* An introductory course in Biology, Science B-29, or permission of instructor.



**\*Anthropology 1418 (formerly \*Anthropology 118). Endocrinology and Behavior: Research Seminar**

Catalog Number: 1437 Enrollment: Limited to 8.

*Susan F. Lipson*

*Half course (spring term). M., W., at 11 and a weekly laboratory either M. or W., 2-5. EXAM GROUP: 4*

An introduction to laboratory techniques and research design in behavioral endocrinology. Students develop and conduct pilot research projects.

*Note:* Preference given to anthropology graduate and undergraduate students.

*Prerequisite:* Anthropology 111.

**Anthropology 1420 (formerly Anthropology 142). Human Anatomy**

Catalog Number: 6233

*Daniel E. Lieberman*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An integrative overview of human anatomy, with a focus on the musculo-skeletal system, including aspects of developmental biology, functional morphology, and physiology. Topics include: muscle and skeletal development, anatomy, and histology; the biomechanics of muscles and bones; craniofacial growth and development; the functional morphology of chewing, respiration, vocalization, locomotion, and other activities. Special attention paid to the unique aspects of human anatomy.

*Note:* No prior knowledge of anatomy is required.

**Anthropology 1425 (formerly Anthropology 125). Primate and Human Nutrition: Research Seminar**

Catalog Number: 7064

*Richard W. Wrangham*

*Half course (spring term). M., 2–4, and lab to be arranged on Tuesdays. EXAM GROUP: 7, 8*

An introduction to laboratory study in the biochemical analysis of plant and animal foods, and of human and animal digestive physiology and feeding behavior. Topics include nutritional requirements, primate and human dietary adaptations and the nature of early hominid diets. Projects may include laboratory analyses of plant and animal foods, including samples collected from ongoing wild primate field projects or modern hunter/gatherer projects.

**[Anthropology 1445. The Hominoidea]**

Catalog Number: 1391

*David Pilbeam*

*Half course (fall term). Hours to be arranged.*

A lecture-seminar course on the hominoid primates focusing on both the living and the fossil records, within genetical, morphological, and behavioral-ecological frameworks of the living apes.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Science B-27, Anthropology 1330, and Anthropology 1420.

**[\*Anthropology 1463 (formerly \*Anthropology 163). Molecular Evolution of the Primates]**

Catalog Number: 3359



*Maryellen Ruvolo*

*Half course (fall term). Hours to be arranged.*

Introduction to the primates, emphasizing their molecular evolutionary history and the forces that mold their genomes. Topics include the neutral theory of molecular evolution, molecular clock concept and its applications, evolution of multigene families, relationships between primate morphological and molecular evolution, molecular convergences, evidence for horizontal gene transfer in primate genomes, and evolution of simian and human immunodeficiency viruses, color vision genes.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Biological Sciences 50.

**\*Anthropology 1494r (formerly \*Anthropology 194r). The Hominid Fossil Record**

Catalog Number: 2462

*David Pilbeam*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

A lecture-laboratory course on the fossil record of Hominidae, focusing on analysis and interpretation of the record based on casts.

*Note:* Fulfills the research seminar requirement for anthropology concentrators.

*Prerequisite:* Science B-27 or Anthropology 1420.

**[Anthropology 1560r (formerly Anthropology 181r). Biology of Aggression]**

Catalog Number: 6107

*Richard W. Wrangham*

*Half course (spring term). Hours to be arranged.*

Discussion will focus on primate inter-group aggression, with particular attention to humans and chimpanzees. The course will be based around a behavioral-ecological perspective but will include readings from various disciplines, including behavioral ecology, behavioral genetics, social psychology, developmental psychology, neurobiology, social anthropology, political science, and international relations.

*Note:* Expected to be given in 2006–07.

**[\*Anthropology 1580 (formerly \*Anthropology 158). The Fossil Record and Primate Evolution: Research Seminar]**

Catalog Number: 3509 Enrollment: Limited to 8.

*John C. Barry*

*Half course (fall term). Hours to be arranged.*

An introduction to the analysis of fossils and interpretation of the fossil record. Reading and discussion focuses on two topics: 1) the possibilities and limitations of the fossil record and 2) the origin and extinction of species, and the role of climate in shaping life's history. Students will have individual or group research projects.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Science B-27, Science B-57, or permission of instructor.

***Primarily for Graduates***



**[\*Anthropology 2330 (formerly \*Anthropology 203). Human Genetic Diversity: Seminar]**

Catalog Number: 0775

*Maryellen Ruvolo*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2007–08. Limited to biological anthropology graduate students with a genetics background.

**\*Anthropology 2337r (formerly \*Anthropology 237br). Advanced Laboratory Methods in Human Endocrinology**

Catalog Number: 5345

*Susan F. Lipson*

*Half course (spring term). Hours to be arranged.*

*Note:* Intended for students engaged in laboratory research on human endocrinology.

**Anthropology 2350ar (formerly Anthropology 235ar). Laboratory Methods in Primate and Human Nutrition I**

Catalog Number: 2187

*Cheryl D. Knott*

*Half course (fall term). Hours to be arranged.*

Independent laboratory study in the biochemical analysis of plant and animal foods, and of human and animal digestive physiology and feeding behavior.

**Anthropology 2350br (formerly Anthropology 235br). Laboratory Methods in Primate and Human Nutrition II**

Catalog Number: 3292

*Cheryl D. Knott*

*Half course (spring term). Hours to be arranged.*

Independent laboratory study in the biochemical analysis of plant and animal foods, and of human and animal digestive physiology and feeding behavior.

**[Anthropology 2360r (formerly Anthropology 206r). Topics in Paleolithic Archaeology and Human Evolution]**

Catalog Number: 8630

*Ofer Bar-Yosef and David Pilbeam*

*Half course (fall term). Hours to be arranged.*

Selected topics in Old World paleoanthropology. Topics include *Homo erectus* and modern human dispersions, Eurasian colonization, survival strategies of the Neanderthals and their demise, radiometric techniques, transition to Upper Paleolithic, strategies of past foragers.

*Note:* Expected to be given in 2006–07.

**Anthropology 2390ar (formerly Anthropology 239ar). Advanced Laboratory Methods in Primate Endocrinology I**

Catalog Number: 9945

*Cheryl D. Knott*

*Half course (fall term). Hours to be arranged.*

Intended for students engaged in laboratory research on non-human primate endocrinology.



**Anthropology 2390br (formerly Anthropology 239br). Advanced Laboratory Methods in Primate Endocrinology II**

Catalog Number: 8585

*Cheryl D. Knott*

*Half course (spring term). Hours to be arranged.*

Intended for students engaged in laboratory research on non-human primate endocrinology.

**Anthropology 2430 (formerly Anthropology 229). Behavioral Biology Seminar**

Catalog Number: 3777

*Frank W. Marlowe and Richard W. Wrangham*

*Half course (fall term). Hours to be arranged.*

Reading and discussion of current research in behavioral biology of primates (including humans) in parallel with Science B-29.

*Note:* Required of entering graduate students in biological anthropology. Open to other graduate students with permission of instructor. Limited to graduate students. Given in alternate years.

**Anthropology 2440. Geographical Variation in Primate Ecology**

Catalog Number: 4418

*Cheryl D. Knott*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

An examination of how ecological conditions in different geographical locations affect primate reproduction, nutrition, ranging, energetics, culture, life history, and population size and composition. The course particularly focuses on population level differences in great apes.

*Note:* Graduate students or by permission of instructor.

**Anthropology 2450. Primate Socioecology**

Catalog Number: 1661 Enrollment: Limited to 12.

*Alain Houle*

*Half course (fall term). Hours to be arranged.*

An exploration of primate socioecology, with an emphasis on community ecology, mechanisms of coexistence, food, foraging efficiency, dominance, and social structures. The course particularly focuses on great apes but other primates are covered as well.

*Note:* Open to undergraduates with permission from instructor.

**[\*Anthropology 2595ar (formerly \*Anthropology 295ar). Laboratory Methods in Evolutionary Genetics]**

Catalog Number: 7934

*Maryellen Ruvolo*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. Limited to graduate students and undergraduates conducting senior thesis research.

**\*Anthropology 2595br (formerly \*Anthropology 295br). Laboratory Methods in Evolutionary Genetics**

Catalog Number: 6468

*Maryellen Ruvolo*





*Half course (spring term). Hours to be arranged.*

*Note:* Limited to graduate students and undergraduates conducting senior thesis research.

### ***Cross-listed Courses***

#### **\*Freshman Seminar 21j. Human Evolution**

#### **Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution**

#### **\*OEB 121a (formerly \*Biology 121a). Advanced Structure and Physiology of the Vertebrates**

**[OEB 174r (formerly Biology 174r). Topics in Behavioral Ecology: Learning and Memory]**

**[Quantitative Reasoning 34. Counting People]**

**[Science B-27. Human Evolution]**

**Science B-29. Evolution of Human Nature**

### ***Social Anthropology***

#### ***Primarily for Undergraduates***

#### **\*Anthropology 97z. Sophomore Tutorial in Social Anthropology**

Catalog Number: 5832

*Mary M. Steedly*

*Half course (spring term). Hours to be arranged.*

The sophomore tutorial provides an in-depth exploration and critique of major theoretical approaches in social and cultural anthropology, the historical context of their emergence, and their contribution and relation to the discipline as a whole. Seminar members will have a chance to read and discuss selected works by key theorists, and to see how their ideas have shaped ethnographic description and analysis.

*Note:* Required of all concentrators.

#### **\*Anthropology 98z. Junior Tutorial in Social Anthropology**

Catalog Number: 4503

*James L. Watson*

*Half course (fall term). Hours to be arranged.*

Junior tutorials in Social Anthropology explore critical theoretical issues related to a single ethnographic region (eg. South Asia, Africa, Latin America). The issues and areas change from year to year, but the purpose remains the same: to give students a chance to grapple with advanced readings and to experience the ways that ideas and theories can be applied and critically analyzed in ethnographic studies.

#### ***For Undergraduates and Graduates***

#### **Anthropology 1600 (formerly Anthropology 110). Introduction to Social Anthropology**

Catalog Number: 8296

*Theodore C. Bestor (fall term) and J. Lorand Matory (spring term)*

*Half course (fall term; repeated spring term). Fall: M., W., (F.), at 1; Spring: Tu., Th., at 11.*



*EXAM GROUP: Fall: 6; Spring: 13*

Introductory exploration of anthropological approaches to society, culture, language, and history. Lectures, readings, and ethnographic films focus on global social and cultural diversity, and the intellectual and ethical challenges of anthropological research on human difference, experience, and complexity, across a wide range of theoretical perspectives and social/cultural topics, including kinship, social and political hierarchy, exchange, gender, language, ideology, religion, and global political economic systems. *Note: Open to freshmen.*

*Note: Open to freshmen.*

**\*Anthropology 1610. Ethnographic Research Methods**

Catalog Number: 2622

*Theodore C. Bestor*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Introduction to methodology for contemporary ethnographic field research in anthropology. Students complete assigned and independent research projects relying on a variety of ethnographic methods, under supervision of department faculty.

*Note: Priority to students preparing for senior thesis research. Open to undergraduates only.*

**Anthropology 1615 (formerly Anthropology 108). Anthropology and Human Rights: Contextualizing Universals**

Catalog Number: 8509

*Theodore MacDonald*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Introduces theory and practice of human rights, emphasizing current and increasing value of anthropology for analyzing human rights violations, and contextualizing interpretations of rights and duties. Course assumes many instances of negotiated compromise, and illustrates why and how such situations—intercultural and/or structural asymmetry—demand ethnographic research. Case study approach focuses on ethnic groups, conflict, minorities, development, land, natural resources, participatory processes, and instructor's experiences in developing States, particularly Latin America.

**[Anthropology 1620 (formerly Anthropology 123). Environment and Environmentalism: Anthropological Perspectives: Conference Course]**

Catalog Number: 0889 Enrollment: Limited to 25.

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*Half course (spring term). Hours to be arranged.*

An anthropological exploration of current debates on environment and environmentalism. Through readings on a range of countries and peoples, considers the following themes: the ways in which different groups in different times and places produce cultural constructions of nature, landscape, wilderness, and environment; contestations over the use, knowledge, and meanings of natural resources; movements between the culturalization of nature and the naturalization of culture; environmentalism as discourse; environmental social movements and cults; landscape as commodity.

*Note: Expected to be given in 2006–07.*

**Anthropology 1630 (formerly Anthropology 132). Anthropology of Religion**

Catalog Number: 9598

*Smita Lahiri**Half course (fall term). M., W., at 12, with section F., at 12. EXAM GROUP: 5*

From its inception as a discipline addressing non-Western cultures, anthropology has examined the religious beliefs and practices of people who are “not us.” Yet the cross-cultural study of phenomena such as “ritual,” “sacrifice,” and the “sacred” also renders absolute distinctions between “us” and “them” untenable. At a time when religion is in resurgence from the Americas to Asia, Africa, and the Middle East, we survey the contribution of anthropology to understanding its complexity and resilience.

**[Anthropology 1640 (formerly Anthropology 104). Language and Culture]**

Catalog Number: 5844

*Steven C. Caton**Half course (fall term). Hours to be arranged.*

Examines the ways forms of speaking can constitute cultural life and vice versa. A comprehensive overview of linguistic theories of structuralism and their criticism will form the basis on which to proceed to an ethnography of speaking in different societies. Topics will include: the structuralism of Ferdinand de Saussure, the Sapir-Whorf Relativity Hypothesis and its modern evocations, pragmatics, performativity, Bakhtinian dialogicality, and poetry and poetics.

*Note:* Expected to be given in 2006–07. No previous knowledge of linguistics or of anthropology is required.

**Anthropology 1645. Exploring Culture Through Film**

Catalog Number: 4321

*Lucien G. Taylor**Half course (fall term). M., W., 1–3:30. EXAM GROUP: 6, 7, 8*

At once an ethnographic and a theoretical course, students compare and contrast filmic and textual representations of culture, power, gender, and history. Analyzing a variety of film genres, including “world cinema,” documentary, and experimental film, students are both introduced to contemporary visual anthropological theory, and specialize in one cultural or ethnographic context of their choosing.

**[Anthropology 1650 (formerly Anthropology 159). Museums and Representations: Seminar]**

Catalog Number: 4185 Enrollment: Limited to 12.

*Rubie S. Watson**Half course (fall term). Hours to be arranged.*

Treats the ethnographic museum as a focus for historical and cultural study. Through readings, research papers, and exhibit proposals, students explore the history of museums and collecting, changing exhibit styles, museum ethics and challenges to traditional museum practices. This is a research seminar for undergraduates and introduces students to research methods involving primary source materials, including museum artifacts and records.

*Note:* Expected to be given in 2006–07.



**\*Anthropology 1675. Global Islam**

Catalog Number: 9136 Enrollment: Limited to 20.

*Jocelyne Cesari (Divinity School)*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

The course will analyze the emergence, development, and increasing influence of contemporary forms of Islamic engagement and thinking such as the Muslim Brothers, Al Qaeda, or Sufi orders that are not limited to a particular country or ethnic/cultural group. The capacity of either conflict or peace carried by these movements at the international level will also be discussed.

*Note:* Offered jointly with the Divinity School as 3880.

**Anthropology 1680 (formerly Anthropology 133). From Lost Eden to Perfumed Nightmare: Themes in the Anthropology of the Philippines**

Catalog Number: 9492

*Smita Lahiri*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

As a Southeast Asian nation with a history of double colonization by Spain and the US, the Philippines eludes easy categorization within anthropology's regionalist traditions. We use the Philippines to probe some of anthropology's blind spots, and as a springboard for analyzing hierarchy, political culture, religion, and performance through comparisons within and beyond Southeast Asia. Recent topical concerns in anthropology, such as nationalism, marginality, and globalization, will also be explored using Philippine materials.

**Anthropology 1685 (formerly Anthropology 121). Humans, Aliens, and Future Home Worlds: An Anthropologist Looks at Science Fiction**

Catalog Number: 2300

*Paulette G. Curtis*

*Half course (spring term). M., W., (F.), at 11 and a weekly section to be arranged. EXAM GROUP: 4*

Science Fiction is an entertaining and rich genre in which to examine attitudes, ideals, mores and desires concerning culture and society. Through American SF stories, films, and television series, the course will examine the following themes: The Alien; Galactic Military Battles and Adventures; Cyborgs and Other Near-Humans; 'Alternative' SF Storytellers; Social Science Fiction; Utopic and Paranoid TV Visions; SF Fandom.

**[Anthropology 1690 (formerly Anthropology 178). Consuming Passions: Cultures of Materialism in Asia]**

Catalog Number: 1201

*Smita Lahiri*

*Half course (fall term). Hours to be arranged.*

How do objects tell the story of people's lives? How do historical relations of exchange constitute inter-community boundaries and communal identities? What can we read into the explosion of new consumer desires, opportunities and fantasies currently seen in the Asia-Pacific region? Anthropological ideas about "material culture" used to work through contemporary formations of national, gender, sexual, and ethnic identity, primarily but not exclusively in South and Southeast Asia.

*Note:* Expected to be given in 2006–07.

**Anthropology 1700. Family and Anti-Family Movements**

Catalog Number: 8356 Enrollment: Limited to 12.

*Rubie S. Watson**Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Three communal movements with strong anti-family agendas (Chinese communization, Israeli kibbutzim, and Shaker communities in nineteenth century America) are the course focus. To varying degrees, these movements attempted to replace the family with communal organizations. Students will examine the very different utopian visions that gave rise to the three movements. Readings will be selected from personal accounts of those who participated in these movements as well as secondary literature.

**Anthropology 1710. Memory Politics: Truth, Justice, Redress**

Catalog Number: 3793

*Kimberly Theidon**Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An engagement with an interdisciplinary set of readings that analyze the relationship between memory and social reconciliation, and the role that theories of truth, justice, and redress play in this equation. We analyze truth commissions, forms of justice, debates regarding reparations, and the points of conjuncture and disjuncture between national discourses and subaltern concepts of truth, justice, and reconciliation. Case studies include Rwanda, South Africa, Japan, Guatemala, and Peru.

**[Anthropology 1730. Media and Mediation: Anthropology of Communication Technologies]**

Catalog Number: 9974

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*Half course (fall term). Hours to be arranged.*

Communications technologies mediate our knowledge of the world, interactions with others, and modes of self-expression. McLuhan's famous dictum that "the medium is the message" suggests that intrinsic semiotic and material qualities of media shape their social and political effects. Through ethnographic and historical readings on such media as writing, books, radio, photography, television, and the Internet, we explore how media trains sensory perceptions and gives rise to novel forms of sociality and imagination.

*Note:* Expected to be given in 2006–07.*Prerequisite:* Undergraduates must have taken introductory anthropology.**Anthropology 1740. Transformations of Mind: The Role of Speech, Text, and Hypertext**

Catalog Number: 2918

*Catalina Laserna**Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

In what ways do digital media transform arenas of education, entertainment and work? Readings investigate how anthropologists carry out research in the emergent field of media anthropology characterized by an emphasis on historically and culturally situated perspectives on communicative practice. We will experiment with hypertext, simulations, videogames and weblogs, and reflect on how our habits of mind and ways with text reflect the material, socio-cultural and ideological conditions of our experience.



**[Anthropology 1750. Syncretism: Seminar]**

Catalog Number: 3633

*J. Lorand Matory*

*Half course (fall term). Hours to be arranged.*

We address hotly debated methods in the study of African-American lifeways. Syncretism is the convergence of practices and beliefs of diverse origins, culminating in the synthesis of new cultural forms, such as Jazz and Cuban *Santeria*. We examine the cultural prefigurations and political conditions that determine local syntheses and complicate conventional models of cultural retention and purity, acculturation, assimilation, pluralism, multiculturalism, hybridity, and *mestizaje*.

*Note:* Expected to be given in 2006–07.

**Anthropology 1760 (formerly Anthropology 153). Nationalism and Bureaucracy**

Catalog Number: 0291 Enrollment: Limited to 20.

*Michael Herzfeld*

*Half course (spring term). M., W., at 10. EXAM GROUP: 3*

Explores the ideological and practical foundations and effects of nationalism. Particular attention focused on how nationalism is reproduced by bureaucrats in daily practice, and how rituals of national identity are organized and invested with meaning. Cases include systems of taxation, historic conservation, health care, and immigration. This comparative course covers several different countries and systems, and is designed to highlight the contribution of ethnography to the analysis of national bureaucracies.

**[Anthropology 1770 (formerly Anthropology 169). Greece and Rome, the Modern Version]**

Catalog Number: 1883

*Michael Herzfeld*

*Half course (spring term). Hours to be arranged.*

Classical Greece and Rome are usually seen as the twin Classical founts of “Western Civilization.” We examine the cultural and political implications of that premise through the lens of the modern cultures of both places and its consequences for their present inhabitants, as well as through uses made of the ancient and more recent past both there and around the world.

Readings include ethnographies, historical, and political writings.

*Note:* Expected to be given in 2007–08.

**[Anthropology 1790. Violence in the Andes: Coca, Conflict, and Control]**

Catalog Number: 2224

*Kimberly Theidon*

*Half course (spring term). Hours to be arranged.*

In this course we address the politics of coca and conflict in the Andean Region. We will engage an interdisciplinary set of readings that allow us to examine the structures of conflict and historicize the current violence in the region, as well as explore the complex dynamics of coca production, counter-narcotics and counter-insurgency efforts in the Andes. We will address the rise of indigenous movements and their potential to redefine political agendas in Colombia, Ecuador, Peru and Bolivia.

*Note:* Expected to be given in 2006–07.



**[Anthropology 1820. Japan in the Ethnographic Gaze: Seminar]**

Catalog Number: 1267 Enrollment: Limited to 15.

*Theodore C. Bestor*

*Half course (fall term). Hours to be arranged.*

We examine ethnographies of Japan from the 1930s to the present to illuminate how Japan, as a cultural and social “whole,” has been ethnographically problematized and re-problematized in different eras, as different theoretical interests—such as culture-and-personality, modernization, and tradition—have been ascendant.

*Note:* Expected to be given in 2006–07.

**[\*Anthropology 1830 (formerly \*Anthropology 193). Social Suffering: An Introduction to Medical Anthropology]**

Catalog Number: 1330

*Arthur Kleinman*

*Half course (spring term). Hours to be arranged.*

Course considers social suffering as an entry point to the study of medical anthropology. It analyzes the AIDS pandemic, chronic illness and political violence, among other examples of suffering, and issues in medical anthropology, such as: the social and political roots of disease and illness; the intersection of the individual body, the community and the state; patient narrations of pain, and how public policy and intervention aimed at alleviating suffering can actually intensify it.

*Note:* Expected to be given in 2006–07.

**Anthropology 1835. An Introduction to Psychiatric Anthropology: Society and Mental Illness**

Catalog Number: 1663

*Francine Lorimer and Arthur Kleinman*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Reviews ethnographic research, social theory, clinically relevant research, and cross-cultural comparisons concerning depression, anxiety disorders, PTSD, psychosis, and personality disorders. Examines illness experience, family burden, stigma, clinical theories and practices, and relevance to mental global health.

**[Anthropology 1840 (formerly Anthropology 183). Comparative Liberation Theologies]**

Catalog Number: 6458

*Ajantha Subramanian*

*Half course (fall term). Hours to be arranged.*

Considers the role of religion as an idiom of social critique and a vehicle of social transformation. Offers a comparative perspective on religious consciousness, practice, and politics by comparing the grounds for the rise of faith-based social movements in different cultural and historical contexts. Cases include: the mass conversion of Indian low castes to Christianity and Buddhism, Jamaican Rastafarianism, Catholic liberation theology in El Salvador, and the Islamic Revolution in Iran.

*Note:* Expected to be given in 2006–07.





**\*Anthropology 1850. Ethnography as Practice and Genre**

Catalog Number: 1686 Enrollment: Limited to 20.

Mary M. Steedly

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

For sociocultural anthropologists, ethnography is both a way of studying human communities and a way of writing about them. Ethnography fieldwork raises issues of participation, power, and perspective; cultural relativism; the nature of evidence; and the ethics of engagement. Writing ethnography highlights other issues, such as the politics of representing “others.” This course explores these and related issues through close reading and intensive discussion of selected texts.

*Prerequisite:* Graduate students with permission of instructor.

**[Anthropology 1860 (formerly Anthropology 136). Colonial Departures]**

Catalog Number: 9540

Mary M. Steedly

*Half course (fall term). Hours to be arranged.*

Following World War II, the fabric of European empire in Asia and Africa began to unravel. Some through revolutionary violence, others through peaceful negotiation, new nations declared themselves free of colonial domination. We examine colonialism’s 20th century heyday, decline, and aftermath from an anthropological perspective, giving particular attention to local decolonizing practices and to the many forms the postcolonial condition may take.

*Note:* Expected to be given in 2006–07.

**[Anthropology 1870. Island Southeast Asia: Circulating Cultures]**

Catalog Number: 5149

Mary M. Steedly

*Half course (fall term). Hours to be arranged.*

An introduction to island Southeast Asia (Indonesia, Philippines, Malaysia, Singapore, Brunei) emphasizing circulations of people, goods, ideas, beliefs, wealth, power, and images. Island Southeast Asia has a long history of involvement in global networks of economic distribution, exchange and appropriation. We will focus on cultural dimensions of such circulations, with topics to include urban gridlock, gay slang, terrorism, theme parks, female labor, political crisis, new media, democratization, and the lifestyles of the rich and famous.

*Note:* Expected to be given in 2006–07.

**Anthropology 1880. Chinese Culture and Society**

Catalog Number: 5917

James L. Watson

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

A detailed examination of Chinese social institutions, with emphasis on life in the countryside. Topics include: family and kinship organization, marriage and inheritance patterns, ritual and local religion, pre- and post-socialist cultural systems, and the effects of economic reforms on local life.

**Anthropology 1980 (formerly Anthropology 168). Anthropology at Home: War and the US**

Catalog Number: 2145



*Paulette G. Curtis*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

This course will examine war from an anthropological and ethnographic perspective. How soldiers experience it, militaries mobilize to fight it, societies represent and commemorate it, and finally, anthropologists and other cultural (hi)storytellers analyze and represent it will concern this seminar. The modern, contemporary US and its military (World War II to Desert Storm) is the focus.

***Primarily for Graduates***

**Anthropology 2620 (formerly Anthropology 214). Global Christianities**

Catalog Number: 7267

*Smita Lahiri*

*Half course (spring term). W., 12–2. EXAM GROUP: 5, 6*

Examines Christianity's global dissemination through historical and ethnographic texts. Develops a comparative perspective on Christianity's global forms, including Protestant evangelicalisms, "folk" Catholicisms, and heretical offshoots.

**\*Anthropology 2626 (formerly \*Anthropology 226t). Research Design**

Catalog Number: 9193 Enrollment: Limited to 12.

*Theodore C. Bestor*

*Half course (spring term). Hours to be arranged.*

Seminar focuses on weekly writing assignments leading to complete dissertation research proposals; defining theoretical and ethnographic contexts of research problem; reviewing literature; explaining site selection, methodology, timetable, human subjects protection; preparing budget; identifying grant sources.

*Note:* Limited to doctoral candidates, with preference given to advanced students in Anthropology.

**Anthropology 2630. Power, Belief, and Practice: Topics in the Anthropology of Religion**

Catalog Number: 1620

*Smita Lahiri*

*Half course (fall term). M., 5–7 pm. EXAM GROUP: 9*

Develops a critique of religion's place in anthropological theory. Recuperates valuable legacies from classic anthropology and conjoins them with insights from social and literary theory for analyzing contemporary formations of belief, practice, and power.

*Note:* Limited to graduate students, who will also be expected to attend all Anthropology 1630 lectures.

**[Anthropology 2640. Interventions: Ethics, Logics, Intentions]**

Catalog Number: 3237

*Kimberly Theidon*

*Half course (spring term). Hours to be arranged.*

We trace the rise of the humanitarian narrative and examine how humanitarianism, in conjunction with other keywords such as crisis, emergency, and intervention, has become one of



the organizing categories of political action and order.

*Note:* Expected to be given in 2006–07.

**\*Anthropology 2650a (formerly \*Anthropology 205a). History and Theory of Social Anthropology: Proseminar**

Catalog Number: 1752

*J. Lorand Matory*

*Half course (fall term). W., 3–6. EXAM GROUP: 8, 9*

A critical review of the major theoretical approaches in social anthropology.

*Note:* Required of candidates for the PhD in Social Anthropology. Limited to and aimed at doctoral candidates. Not open to undergraduates.

**Anthropology 2650b (formerly Anthropology 205b). History and Theory of Social Anthropology: Proseminar**

Catalog Number: 7971

*Mary M. Steedly*

*Half course (spring term). W., 3–6. EXAM GROUP: 8, 9*

Continuation of Anthropology 205a.

*Note:* Limited to, and aimed at, doctoral candidates. Not open to undergraduates.

**[Anthropology 2660 (formerly Anthropology 221). The Anthropology of Knowledge: Seminar]**

Catalog Number: 7070

*Michael Herzfeld*

*Half course (fall term). Hours to be arranged.*

Comparative exploration of local epistemologies from craft apprentices and skilled manual workers to schoolchildren and scientists, emphasizing the embodiment, inculcation, and transmission of practical knowledge and the relationships among cosmology, social context, and pragmatic understanding.

*Note:* Expected to be given in 2006–07.

**Anthropology 2680 (formerly Anthropology 263). Globalization and Culture**

Catalog Number: 5127

*James L. Watson*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines recent theories of transnationalism and globalism, with emphasis on popular culture (music, TV, entertainment, food systems, etc.). Focus on debates regarding cultural imperialism and the effects of transnational corporations on “local” cultures.

**[Anthropology 2704. Linguistic Pragmatics and Cultural Analysis in Anthropology]**

Catalog Number: 4411

*Steven C. Caton*

*Half course (fall term). Hours to be arranged.*

A theory of linguistic pragmatics (Peirce, Benveniste, etc.) will be developed from a critique of structuralism (Saussure) whose relevance to the analysis of “culture” will be illustrated through ethnographies of language.



*Note:* Expected to be given in 2006–07. Limited to graduate students, who will also be expected to attend all Anthropology 1640 lectures.

**[Anthropology 2725. Race in the History of Anthropology]**

Catalog Number: 1046

*John M. Norvell*

*Half course (fall term). Hours to be arranged.*

Examines the career of the race concept in the history of anthropology.

*Note:* Expected to be given in 2006–07.

**Anthropology 2740 (formerly Anthropology 245). Culture and Mental Illness**

Catalog Number: 6013

*Byron J. Good (Medical School)*

*Half course (fall term). W., 12–3. EXAM GROUP: 5, 6, 7*

Reviews the figure of mental illness in Western thought, then focuses on cross-cultural studies of psychopathology: culture and diagnosis; cultural influences on depression, schizophrenia, and dissociation; madness in non-European healing systems; transnational aspects of psychiatry.

**Anthropology 2750 (formerly Anthropology 250). Local Biologies: Perspectives on the Interaction Between Culture and Biology**

Catalog Number: 8267

*Arthur Kleinman*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Reviews the variety of anthropological perspectives on the interactions between culture and biology. Topics include mind-brain-society interaction in pain; cross-cultural studies of menopause; sociosomatics of depression; the new genetics and eugenics; research on stress and trauma.

*Note:* Open to advanced undergraduates with permission of instructor.

**[Anthropology 2770 (formerly Anthropology 277). Development Dilemmas]**

Catalog Number: 8724

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*Half course (spring term). Hours to be arranged.*

Presents anthropological perspectives on theories and practices of development, the cultural politics of development encounters, and development as a focus for the anthropology of politics; topics include discourse, participation, locality, social movements, indigenous rights, governmentality, market cultures, violence.

*Note:* Expected to be given in 2006–07.

**[Anthropology 2780 (formerly Anthropology 283). Culture and Citizenship]**

Catalog Number: 4769

*Ajantha Subramanian*

*Half course (spring term). Hours to be arranged.*

Considers the dynamics of differentiated citizenship in postcolonial nation-states. Challenges the concept of the abstract citizen by tracing the ways that race, religion, region, and language have



mediated particular histories of citizenship.

*Note:* Expected to be given in 2006–07.

**[Anthropology 2785. Theories of Subjectivity in Current Anthropology]**

Catalog Number: 1995

*Byron J. Good (Medical School)*

*Half course (spring term). Hours to be arranged.*

Theoretical positions and anthropological debates concerning subjectivity. Freud, Lacan, Butler, Agamben, Zizek, Foucault, and Mbembe read alongside ethnographic texts on violence, suffering, governmentality, and the state.

*Note:* Expected to be given in 2006–07.

**\*Anthropology 2810. Research Seminar on the Middle East and Islamic Frontiers**

Catalog Number: 1690

*Engseng Ho*

*Half course (fall term). Tu., 5:30–7:30 pm. EXAM GROUP: 18*

Seminar for doctoral students exploring ways of integrating social scientific, humanistic, and transregional approaches in their writing projects.

**[Anthropology 2820 (formerly Anthropology 222). New Directions in Political Thought: The Islamic World in Asia]**

Catalog Number: 9042

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*Half course (fall term). Hours to be arranged.*

We examine the most recent developments concerning the political role of Islamic intellectuals in a number of key countries, including Turkey, Iran, Indonesia, Malaysia, Thailand, and others.

*Note:* Expected to be given in 2006–07.

**Anthropology 2830 (formerly Anthropology 223). Mobility**

Catalog Number: 6998

*Engseng Ho*

*Half course (spring term). Tu., 5:30–7:30 pm. EXAM GROUP: 18*

Seminar explores theories (e.g. Locke on portable property), vehicles (boats), travelers (pirates, pilgrims, migrants), media (books, money, gravestones, genealogies) to recognize the phenomenon of mobility and its consequences. Emphasizes external rather than internal social relations.

**\*Anthropology 2835. Sensory Ethnography I**

Catalog Number: 7583 Enrollment: Limited to 10.

*Lucien G. Taylor*

*Half course (spring term). Tu., Th., 9–12. EXAM GROUP: 11, 12, 13*

First half of a year-long sequence in which students conduct ethnography using film, video, sound, and/ or still photography, and analyze media anthropological theory as it has developed over the last half century.

*Note:* Limited to graduate students, who must also attend all VES 157a classes. Emphasis is on



pre-production and production in the spring, and on post-production in the fall. Interview with instructor and teaching assistant required for admission.

**Anthropology 2840 (formerly Anthropology 268). Ethnography and Personhood**

Catalog Number: 3560

*Michael Herzfeld*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Intensive, critical review of major ethnographies, exploring the relationship between society and personhood, examining ethnographic writing and its relation to other genres (including biography); and tracing anthropological theory through changes in descriptive and analytic practice.

*Note:* Expected to be omitted in 2006–07. Given in alternate years.

**\*Anthropology 2850r (formerly \*Anthropology 271r). Practicum in Foreign-Language Ethnography**

Catalog Number: 9856

*Michael Herzfeld and members of the Department*

*Half course (fall term). Hours to be arranged.*

Readings in ethnographic and related theoretical works written in a selected foreign language; discussion, class presentations, and final papers will be in that language also.

*Note:* Expected to be omitted in 2006–07. Primarily for doctoral students.

**Anthropology 2855 (formerly Anthropology 1850). Deep China: What Medical Anthropology and Psychiatry Contribute to the Study of China Today**

Catalog Number: 1679

*Arthur Kleinman*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

What do accounts of depression, suicide, substance abuse, sexually transmitted diseases, SARS, HIV/AIDS, starvation and the personal and family trauma of political violence teach us about China and the Chinese over the last few decades?

*Note:* Open to undergraduates.

**[Anthropology 2860 (formerly Anthropology 246). Maincurrents in Anthropological Thought]**

Catalog Number: 9980

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*Half course (fall term). Hours to be arranged.*

Developments in social theory in the British, French, German, and American traditions.

Positivism, Marxism, Structuralism, Post-modernism reconsidered. Comparisons with Asian traditions of just societies.

*Note:* Expected to be given in 2006–07. Limited to graduate students.

**Anthropology 2870 (formerly Anthropology 1780). Transgressive Texts: Contemporary Latin American Ethnography**

Catalog Number: 3347

*Kimberly Theidon*



*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

A reading seminar of ethnographic accounts of globalization, identity formation, and political action in Latin America. We explore cultural forms and materials conditions, locating the politics of representation within fields of power and conflict.

**[Anthropology 2876 (formerly Anthropology 276). New Ethnographies in the Anthropology of Social Experience]**

Catalog Number: 5029

*Arthur Kleinman*

*Half course (fall term). Hours to be arranged.*

New ethnographies of social experience and subjectivity are remaking anthropology. Students critically examine studies of illness, violence, and cultural responses to other human problems. Emphasis is on the methodology, writing, and ethics of such ethnographies.

*Note:* Expected to be given in 2006–07. Open to advanced undergraduates.

**[Anthropology 2880 (formerly Anthropology 238). Reorienting Southeast Asia]**

Catalog Number: 7727

*Mary M. Steedly and Smita Lahiri*

*Half course (fall term). Hours to be arranged.*

Revisits some classic themes in Southeast Asian ethnography (e.g. “culture” and “charisma”) in the wake of the Asian financial crisis. Topics include: violence and criminality, technology and technocultural mediations, political predation and reform, (trans) local activisms.

*Note:* Expected to be given in 2006–07.

**[\*Anthropology 2920 (formerly \*Anthropology 292). Japanese Urbanism]**

Catalog Number: 9559

*Theodore C. Bestor*

*Half course (spring term). M., W., F., at 1 and a required weekly section to be arranged.*

A research seminar on selected topics in the anthropological analysis of Japanese urban culture and society.

*Note:* Expected to be given in 2006–07.

**[\*Anthropology 2950 (formerly \*Anthropology 290). Other Others: New Ethnographic Orientations: Seminar]**

Catalog Number: 4205

*Mary M. Steedly*

*Half course (spring term). Hours to be arranged.*

In its early years, anthropology was defined as a discipline by its focus on isolated or primitive societies. Lately anthropologists have taken a turn toward other forms of “otherness”. Through close readings of recent ethnographies, we will explore a variety of new orientations through which anthropologists are moving beyond the primitive.

*Note:* Expected to be given in 2006–07. Open to advanced undergraduates and graduate students.

**[Anthropology 2960r (formerly Anthropology 296r). Chinese Social Anthropology: Seminar]**

Catalog Number: 4633





*James L. Watson*

*Half course (fall term). Hours to be arranged.*

Examines current developments in the social anthropology of Chinese society, with emphasis on popular culture and historical ethnography. Each year a general topic is chosen as the subject of joint research.

*Note:* Expected to be given in 2006–07. Limited to graduate students.

**[Anthropology 2980 (formerly Anthropology 280). Culture]**

Catalog Number: 1114

*Mary M. Steedly*

*Half course (spring term). Hours to be arranged.*

“Culture” is one of anthropology’s key concepts, but there has never been agreement as to the term’s meaning. We tour the work of culture’s key theorists. Is culture still a useful concept in anthropological analysis?

*Note:* Expected to be given in 2006–07.

**[Anthropology 2985. Sociocultural Space and Time: Seminar]**

Catalog Number: 8385

*Engseng Ho*

*Half course (fall term). Hours to be arranged.*

We revisit the development of social theory (structure, practice, subject, domination) through cultivating an eye for the sensuous properties of spatiotemporal media/phenomena (landscape painting, built form, imperial and industrial mobility, travel narratives, genealogy, fame, diaspora).

*Note:* Expected to be given in 2007–08.

***Cross-listed Courses***

**[African and African American Studies 141. Afro-Atlantic Religions]**

[Foreign Cultures 34. Mesoamerican Civilizations](#)

[Foreign Cultures 74. Cultures of Southern Europe](#)

[Foreign Cultures 84. Tokyo](#)

[Foreign Cultures 86. West African Cultures](#)

**[Social Analysis 28. Culture, Illness, and Healing: An Introduction to Medical Anthropology]**

[Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States](#)

[Social Analysis 70. Food and Culture](#)

[\\*Visual and Environmental Studies 157a. Digital Ethnography I: Studio Course](#)

[Visual and Environmental Studies 189 \(formerly Visual and Environmental Studies 189r\). Ethnographic Film History and Theory](#)

***Graduate Courses of Reading and Research***

**\*Anthropology 3000 (formerly \*Anthropology 300). Reading Course**

Catalog Number: 3454

*Members of the Department*



Special reading in selected topics under the direction of members of the Department.

*Note:* Consult the appropriate member of the Department.

**\*Anthropology 3001 (formerly \*Anthropology 301). Reading for General Examination**

Catalog Number: 5689

*Members of the Department*

Individual reading in preparation for the General Examination for the PhD degree.

*Note:* Restricted to candidates for the PhD degree and ordinarily to those who have completed at least one year in residence.

**\*Anthropology 3003 (formerly \*Anthropology 303). Readings on Southeast Asia**

Catalog Number: 7935

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*Half course (fall term). Hours to be arranged.*

**\*Anthropology 3100 (formerly \*Anthropology 3023). Old World Archaeology (Europe, Asia, and Africa)**

Catalog Number: 3463

*Ofer Bar-Yosef 1887, C. C. Lamberg-Karlovsky 2387, and Richard H. Meadow 1572*

**\*Anthropology 3111 (formerly \*Anthropology 3024). Asiatic Archaeology and Ethnography**

Catalog Number: 5398

*Rowan K. Flad 5059, C. C. Lamberg-Karlovsky 2387, Lawrence E. Stager 1468 (on leave spring term), and Nur Yalman 3780*

**\*Anthropology 3120 (formerly \*Anthropology 3027). Scientific Archaeology**

Catalog Number: 0284

*Richard H. Meadow 1572 and Noreen Tuross 4845*

**\*Anthropology 3130 (formerly \*Anthropology 3029). Archaeology and Ethnography of the Near and Middle East**

Catalog Number: 3787

*Ofer Bar-Yosef 1887, C. C. Lamberg-Karlovsky 2387, and Nur Yalman 3780*

**\*Anthropology 3140 (formerly \*Anthropology 3110). Methods and Theory in Archaeology**

Catalog Number: 5440

*Ofer Bar-Yosef 1887, C. C. Lamberg-Karlovsky 2387, Richard H. Meadow 1572, and Noreen Tuross 4845 (fall term only)*

**\*Anthropology 3300 (formerly \*Anthropology 330). Supervised Field Work in Anthropology**

Catalog Number: 5683

*Members of the Department*

General instruction in field methods and practice in the various divisions of anthropology, including archaeology, ethnography, and physical anthropology. Instructional personnel and



location of course vary with the research program of the staff. Lectures, conferences, field and laboratory work.

*Note:* May be taken by graduate students for academic credit, but since it is tuition-free, does not count for residence credit leading to reduced tuition. Open to students with adequate previous training in the subject.

**\*Anthropology 3310 (formerly \*Anthropology 3005). Experimental Methods in Biological Anthropology**

Catalog Number: 9602

*Daniel E. Lieberman 3980*

**\*Anthropology 3320 (formerly \*Anthropology 320). Advanced Biological Anthropology: Laboratory and Theses**

Catalog Number: 2092

*John C. Barry 1892, Peter T. Ellison 7413 (on leave 2005-06), Cheryl D. Knott 3717, Daniel E. Lieberman 3980, Frank W. Marlowe 757, David Pilbeam 7224 (on leave spring term), Maryellen Ruvolo 2512 (on leave fall term), and Richard W. Wrangham 2349*

**\*Anthropology 3400 (formerly \*Anthropology 340). Reading and Research**

Catalog Number: 6699

*John C. Barry 1892, Theodore C. Bestor 2292, Steven C. Caton 2307 (on leave 2005-06), Paulette G. Curtis 4474, Peter T. Ellison 7413 (on leave 2005-06), William L. Fash 1512, Byron J. Good (Medical School) 7648, Michael Herzfeld 3122, Engseng Ho 3094, Arthur Kleinman 7473, Cheryl D. Knott 3717, C. C. Lamberg-Karlovsky 2387, Daniel E. Lieberman 3980, Frank W. Marlowe 757, J. Lorand Matory 3098, David H. P. Maybury-Lewis 2391, Richard H. Meadow 1572, David Pilbeam 7224 (on leave spring term), Maryellen Ruvolo 2512 (on leave fall term), Mary M. Steedly 2783, Ajantha Subramanian 4618 (on leave 2005-06), Lucien G. Taylor 4584, James L. Watson 2172, Rubie S. Watson 3326, Richard W. Wrangham 2349, and Nur Yalman 3780*

**\*Anthropology 3500 (formerly \*Anthropology 351). Direction of Doctoral Dissertations**

Catalog Number: 1864

*Members of the Department*

*Note:* Consult the appropriate member of the Department.

**\*Anthropology 3600 (formerly \*Anthropology 3004). Current Issues in Biological Anthropology**

Catalog Number: 9373

*Peter T. Ellison 7413 (on leave 2005-06), Cheryl D. Knott 3717 (fall term only), Daniel E. Lieberman 3980, Frank W. Marlowe 757, David Pilbeam 7224 (on leave spring term), Maryellen Ruvolo 2512 (on leave fall term), Richard W. Wrangham 2349, and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Weekly seminars in biological anthropology.*



# Applied Mathematics

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### ***Faculty of the Division of Engineering and Applied Sciences Offering Instruction in Applied Mathematics***

Silas D. Alben, Lecturer on Applied Mathematics  
Donald G. M. Anderson, Gordon McKay Professor of Applied Mathematics (*Director of Undergraduate Studies*)  
William H. Bossert, David B. Arnold, Jr. Professor of Science  
Michael P. Brenner, Gordon McKay Professor of Applied Mathematics and Applied Physics  
Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science (*on leave fall term*)  
Dan Gutfreund, Lecturer on Applied Mathematics  
John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics  
Navin Khaneja, Associate Professor of Electrical Engineering on the Gordon McKay Endowment  
Zhiming Kuang, Assistant Professor of Climate Science  
Daniel T. Larson, Lecturer on Applied Mathematics  
L. Mahadevan, Gordon McKay Professor of Applied Mathematics and Mechanics  
Jonathan E. Mound, Lecturer on Applied Mathematics  
Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences, Professor of Physics, Dean of the Division of Engineering and Applied Sciences and Dean for the Physical Sciences  
James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics  
Howard A. Stone, Vicky Joseph Professor of Engineering and Applied Mathematics  
Vahid Tarokh, Perkins Professor of Applied Mathematics  
Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics  
Leslie G. Valiant, T. Jefferson Coolidge Professor of Computer Science and Applied Mathematics (*on leave 2005-06*)

### ***Other Faculty Offering Instruction in Applied Mathematics***

Jeremy Bloxham, Harvard College Professor and Mallinckrodt Professor of Geophysics  
Allan R. Robinson, Gordon McKay Research Professor of Geophysical Fluid Dynamics  
Aravinthan D. T. Samuel, Assistant Professor of Physics

The Division of Engineering and Applied Sciences ([www.deas.harvard.edu](http://www.deas.harvard.edu)) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Recommended course programs at the undergraduate level may be obtained from the Academic Office, Pierce Hall 110.



Division faculty also offer several courses in the section entitled General Education Electives.

For information concerning the concentration in Applied Mathematics, please consult the Director of Undergraduate Studies or the Academic Office, Division of Engineering and Applied Sciences, Pierce Hall 110. Many additional courses of interest to applied mathematicians can be found in the Computer Science, Engineering Sciences, Mathematics, and Statistics sections of the catalog.

### ***Primarily for Undergraduates***

#### **Applied Mathematics 21a. Mathematical Methods in the Sciences**

Catalog Number: 6395

*Jeremy Bloxham and Jonathan E. Mound*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Complex numbers. Multivariate calculus: partial differentiation, directional derivatives, techniques of integration and multiple integration. Vectors: dot and cross products, parameterized curves, line and surface integrals. Vector calculus: gradient, divergence and curl, Green's, Stokes' and Gauss' theorems, including orthogonal curvilinear coordinates.

*Note:* May not be taken for credit by students who have passed Mathematics 21a. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 1b or equivalent.

#### **Applied Mathematics 21b. Mathematical Methods in the Sciences**

Catalog Number: 5074

*Jeremy Bloxham and Jonathan E. Mound*

*Half course (spring term). M., W., F., at 11; . EXAM GROUP: 4*

Linear algebra: matrices, determinants, eigenvalues, eigenvectors, Markov processes. Optimization and least-squares analysis. Ordinary differential equations. Infinite series and Fourier series. Orthogonality and completeness. Introduction to partial differential equations.

*Note:* May not be taken for credit by students who have passed Mathematics 21b.

*Prerequisite:* Applied Mathematics 21a or equivalent.

#### **\*Applied Mathematics 91r. Supervised Reading and Research**

Catalog Number: 7607

*Donald G. M. Anderson*

*Half course (fall term; repeated spring term). Hours to be arranged.*

An individual project of guided reading and research culminating in a substantial paper or other piece of work which can be meaningfully evaluated to assign a letter grade; may not be taken on a PA/FL basis. Students engaged in preparation of a senior thesis ordinarily should take Applied Mathematics 99r instead.

*Note:* May be taken as a half course in either term; normally may not be taken for more than two terms. Applications may be obtained at Pierce Hall 110. Students should consult their advisers and concentration literature for further information and guidance. Applications must be signed by the student, by the faculty member supervising the project (who will recommend the grade), and by the Director of Undergraduate Studies, who will sign the student's study card once the project and its method of evaluation have been approved.



### **\*Applied Mathematics 99r. Thesis Research**

Catalog Number: 4648

*Donald G. M. Anderson*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Provides an opportunity for students to engage in preparatory research and the writing of a senior thesis. Graded on a SAT/UNS basis as recommended by the thesis supervisor. The thesis is evaluated by the supervisor and by two additional readers.

*Note:* May be taken as a half course in either term; normally may not be taken for more than two terms. The Director of Undergraduate Studies will sign the student's study card once a faculty member has agreed in writing to supervise preparation of the thesis, and reaffirmed this agreement if the course is to be repeated. Applications may be obtained at Pierce Hall 110. Students should consult their advisers and concentration literature for further information and guidance.

### ***For Undergraduates and Graduates***

### **Applied Mathematics 105a. Complex and Fourier Analysis**

Catalog Number: 7732

*Aravinthan D. T. Samuel and Silas D. Alben*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Functions of a complex variable: mapping, integration, branch cuts, series. Fourier series; Fourier and Laplace transforms; transforms applied to differential equations and data analysis; convolution and correlation; elementary probability theory.

*Note:* Applied Mathematics 105a and 105b are independent courses, and may be taken in any order.

*Prerequisite:* Applied Mathematics 21a and 21b, or Mathematics 21a and 21b.

### **Applied Mathematics 105b. Ordinary and Partial Differential Equations**

Catalog Number: 6316

*Michael P. Brenner and Daniel T. Larson*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Ordinary differential equations: power series solutions; special functions; eigenfunction expansions. Algebra and calculus of vectors, dyadics, and tensors. Elementary partial differential equations: separation of variables and series solutions; similarity solutions; comparison of elliptic, parabolic and hyperbolic systems. Asymptotics.

*Note:* Applied Mathematics 105a and 105b are independent courses, and may be taken in any order.

*Prerequisite:* Applied Mathematics 21a and 21b, or Mathematics 21a and 21b.

### **Applied Mathematics 106. Applied Algebra and Combinatorics**

Catalog Number: 3871

*Vahid Tarokh*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Introduction to abstract algebra and its applications. Sets, subsets, and partitions; mappings, operations, and equivalence relations; groups, rings, and fields, polynomials, encryption,



computer coding, application of modular arithmetic, combinatorial designs, lattices, application of trellis representation of lattices, fast algorithms.

### **Applied Mathematics 107. Graph Theory and Combinatorics**

Catalog Number: 6411

*Dan Gutfreund*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly section to be arranged. EXAM GROUP: 12, 13*

Topics in combinatorial mathematics that find frequent application in computer science, engineering, and general applied mathematics. Specific topics taken from graph theory, enumeration techniques, optimization theory, combinatorial algorithms, and discrete probability.

### **Applied Mathematics 111. Introduction to Scientific Computing**

Catalog Number: 7000

*Eli Tziperman and Zhiming Kuang*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Many complex physical problems defy simple analytical solutions or even accurate analytical approximations. Scientific computing can address certain of these problems successfully, providing unique insight. This course introduces some of the widely used techniques in scientific computing through examples chosen from physics, chemistry, and biology. The purpose of the course is to introduce methods that are useful in applications and research and to give the students hands-on experience with these methods.

*Prerequisite:* Applied Mathematics 21a and 21b, or Mathematics 21a and 21b, or permission of instructor.

### **Applied Mathematics 115. Mathematical Modeling**

Catalog Number: 1768

*William H. Bossert and L. Mahadevan*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Abstracting the essential components and mechanisms from a natural system to produce a mathematical model, which can be analyzed with a variety of formal mathematical methods, is perhaps the most important, but least understood, task in applied mathematics. This course approaches a number of problems without the prejudice of trying to apply a particular method of solution. Topics drawn from mechanics, biology, economics and the behavioral sciences.

*Prerequisite:* Mathematics at least at the level of Applied Mathematics 21a,b. Additional skills in analysis, algebra, probability, statistics and computer programming will increase the value of the course to students.

### **Applied Mathematics 120. Applicable Linear Algebra**

Catalog Number: 4378

*Donald G. M. Anderson*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An algorithmic approach to topics in matrix theory which arise frequently in applied mathematics: linear equations, pseudoinverses, quadratic forms, eigenvalues and singular values, linear inequalities and optimization, linear differential and difference equations.





*Note:* Expected to be omitted in 2006–07. Offered in alternate years.

*Prerequisite:* Applied Mathematics 21b, or Mathematics 21b, or equivalent.

**[Applied Mathematics 147. Nonlinear Dynamical Systems]**

Catalog Number: 7708

*Eli Tziperman*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to nonlinear dynamical phenomena, chaos and fractals. The behavior of systems described by ordinary differential equations such as oscillations or population dynamics; bifurcations; approximations by maps; routes to chaos; universality in nonlinear systems. Techniques for analyzing theoretical and experimental nonlinear systems are introduced with applications to physical and biological systems.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics 21a and 21b, or Applied Mathematics 21a and 21b.

***Cross-listed Courses***

**[MCB 111 \(formerly MCB 211\). Mathematics in Biology](#)**

***Primarily for Graduates***

**[Applied Mathematics 201. Physical Mathematics I](#)**

Catalog Number: 3241

*Michael P. Brenner*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduction to methods for developing accurate approximate solutions for problems in the physical sciences that cannot be solved exactly. Topics include: complex function theory, approximate solution of integrals, algebraic equations, nonlinear differential equations, and qualitative methods.

*Prerequisite:* Applied Mathematics 105a, b or equivalent.

**[Applied Mathematics 202. Physical Mathematics II](#)**

Catalog Number: 6559

*John W. Hutchinson*

*Half course (spring term). M., W., F., at 9. EXAM GROUP: 2*

Theory and techniques for finding exact and approximate analytical solutions of partial differential equations with numerical evaluation: eigenfunction expansions, Green functions, variational calculus, transform techniques, perturbation methods, characteristics, line asymptotic methods and selected nonlinear PDE's.

*Prerequisite:* Applied Mathematics 105a and 105b, or equivalent.

**[Applied Mathematics 203 \(formerly Applied Mathematics 203r\). Nonlinear Dynamics and Chaos](#)**

Catalog Number: 6336

*Eli Tziperman*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*



Basic concepts of nonlinear physics, dynamical system theory, and chaos, demonstrated using simple model systems, ODEs, discrete maps, and examples from applications. Analytical and geometrical methods for both experimental and model nonlinear systems.

*Prerequisite:* Knowledge of ordinary differential equations.

### **[Applied Mathematics 205. Practical Scientific Computing]**

Catalog Number: 1370

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*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Computational methods at a sophisticated analytic level. Practical exercises emphasized. A wide range of topics from linear algebra to Fourier analysis will be covered.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics at the level of Applied Mathematics 105b. A previous course in computing is not required.

### **Applied Mathematics 206. Advanced Applied Algebra and Combinatorics**

Catalog Number: 6018

*Vahid Tarokh*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Sets, subsets, and partitions; mappings, operations, and equivalence relations; groups, rings, and fields, polynomials, encryption, computer coding, application of modular arithmetic, combinatorial designs, lattices, application of trellis representation of lattices, fast algorithms; selected readings.

*Note:* Meets with Applied Mathematics 106. Students enrolled in Applied Mathematics 206 will be assigned additional readings.

### **[Applied Mathematics 210. Elementary Functional Analysis]**

Catalog Number: 2781

*Donald G. M. Anderson*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to functional analysis and its applications: metric, Banach and Hilbert spaces; linear operators, spectral theory; differentiation and integration.

*Note:* Expected to be given in 2006–07. Offered in alternate years.

*Prerequisite:* Applied Mathematics 105a and 105b; and Applied Mathematics 120 or Mathematics 121, or equivalent.

### **Applied Mathematics 211. Introduction to Numerical Mathematics**

Catalog Number: 1894

*Donald G. M. Anderson*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Principles and techniques of numerical analysis, synthesis and computation: interpolation and approximation, numerical quadrature and differentiation, linear and nonlinear equations, optimization, differential and integral equations.

*Note:* Expected to be omitted in 2006–07. Offered in alternate years.

*Prerequisite:* Applied Mathematics 105a and 105b; Applied Mathematics 111 or 120 would be helpful.



### **Applied Mathematics 212. Numerical Solution of Differential Equations**

Catalog Number: 6127

*Donald G. M. Anderson*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The development, study and implementation of numerical methods for the approximate solution of ordinary and partial differential equation initial and boundary value problems, and related topics.

*Note:* Expected to be omitted in 2006–07. Offered in alternate years.

*Prerequisite:* Applied Mathematics 211, or equivalent; Applied Mathematics 202 or 210 would be helpful.

### **[Applied Mathematics 213. Topics in Numerical Mathematics]**

Catalog Number: 1048

*Donald G. M. Anderson*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Topic for 2004-05: analytical and numerical methods for the approximate solution of integral equations.

*Note:* Expected to be given in 2006–07. Offered in alternate years.

*Prerequisite:* Applied Mathematics 211, or equivalent; Applied Mathematics 202 or 210 would be helpful.

### **Applied Mathematics 299r. Special Topics in Applied Mathematics**

Catalog Number: 5798

*Howard A. Stone*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervision of experimental or theoretical research on acceptable applied mathematics problems and supervision of reading on topics not covered by regular courses of instruction.

*Note:* Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the Division. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

### ***Graduate Courses of Reading and Research***

Reading courses are odd-numbered; research courses are even-numbered.

### **\*Applied Mathematics 311,312. Numerical Mathematics and Scientific Computing**

Catalog Number: 7333,6118

*Donald G. M. Anderson 1061*

### **\*Applied Mathematics 315,316. Stochastic Processes, Dynamical Systems, Applied Differential Geometry**

Catalog Number: 2458,2459

*Roger W. Brockett 3001 (on leave fall term)*



**\*Applied Mathematics 317,318. Special Topics in Physical Mathematics**

Catalog Number: 9160,2166

*Michael P. Brenner 4101*

**\*Applied Mathematics 319,320. Topics in Continuum Mechanics and Biological Physics**

Catalog Number: 2084,4567

*L. Mahadevan 4758*

**\*Applied Mathematics 321,322. Biological Applications of Mathematics and Automatic Computers**

Catalog Number: 7615,4243

*William H. Bossert 1049*

**\*Applied Mathematics 323,324. Applied Mathematics in Physical Sciences**

Catalog Number: 1149,5221

*Howard A. Stone 2073*

**\*Applied Mathematics 331,332. Theoretical Mechanics in the Earth and Engineering Sciences**

Catalog Number: 0112,0251

*James R. Rice 7270*

**\*Applied Mathematics 333,334. Dynamics of the Ocean; Interdisciplinary Modeling; Geophysical Fluid Dynamics**

Catalog Number: 4947,4948

*Allan R. Robinson 2133*

**\*Applied Mathematics 341,342. Applied Probability and Statistical Inference, Classical and Quantum Information Theory**

Catalog Number: 0970,6033

*Navin Khaneja 4192*

## Applied Physics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Division of Engineering and Applied Sciences Offering Instruction in Applied Physics*



Michael J. Aziz, Gordon McKay Professor of Materials Science  
David C. Bell, Lecturer on Applied Physics (*spring term only*)  
Michael P. Brenner, Gordon McKay Professor of Applied Mathematics and Applied Physics  
Federico Capasso, Robert L. Wallace Professor of Applied Physics (*on leave spring term*)  
Kenneth B. Crozier, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
Daniel S. Fisher, Professor of Physics and Professor of Applied Physics  
Cynthia M. Friend, Theodore William Richards Professor of Chemistry and Professor of Materials Science  
Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
Lene V. Hau, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave fall term*)  
Efthimios Kaxiras, Gordon McKay Professor of Applied Physics and Professor of Physics  
Zhiming Kuang, Assistant Professor of Climate Science  
Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry (*on leave fall term*)  
Vinothan N. Manoharan, Assistant Professor of Physics and Chemical Engineering  
Paul C. Martin, John Hasbrouck Van Vleck Professor of Pure and Applied Physics (*on leave fall term*)  
Eric Mazur, Gordon McKay Professor of Applied Physics and Professor of Physics  
Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences, Professor of Physics, Dean of the Division of Engineering and Applied Sciences and Dean for the Physical Sciences  
David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics  
Peter S. Pershan, Frank B. Baird, Jr. Professor of Science  
Shriram Ramanathan, Assistant Professor of Materials Science on the Gordon McKay Endowment  
James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics  
Frans A. Spaepen, John C. and Helen F. Franklin Professor of Applied Physics  
Howard A. Stone, Vicky Joseph Professor of Engineering and Applied Mathematics  
Patrick Thaddeus, Robert Wheeler Willson Professor of Applied Astronomy  
Michael Tinkham, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics (*on leave 2005-06*)  
Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics  
Joost J. Vlassak, Associate Professor of Materials Engineering on the Gordon McKay Endowment  
David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics  
Robert M. Westervelt, Mallinckrodt Professor of Applied Physics and of Physics  
Tai T. Wu, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)

***Other Faculty Offering Instruction in Applied Physics***

Eugene A. Demler, Professor of Physics  
Henry Ehrenreich, Clowes Research Professor of Science



R. Victor Jones, Robert L. Wallace Research Professor of Applied Physics  
 Allan R. Robinson, Gordon McKay Research Professor of Geophysical Fluid Dynamics  
 Subir Sachdev, Professor of Physics

The Division of Engineering and Applied Sciences ([www.deas.harvard.edu](http://www.deas.harvard.edu)) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Division faculty also offer several courses in the section entitled General Education Electives.

### ***For Undergraduates and Graduates***

#### **Applied Physics 190. Materials Physics**

Catalog Number: 1087

*Joost J. Vlassak*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduces undergraduates in Engineering and Physics to the scientific basis of our understanding of the structure and properties of materials. Topics to be covered include chemical bonding and its relation to structure; crystallography; diffraction; defects in crystals and their effects on material behavior; electrical, thermal and mechanical properties.

*Prerequisite:* Thermodynamics (Engineering Sciences 181, Physics 181, or equivalent), Physics 11a and b, or Physics 15a and b, and Applied Mathematics 21a and b or Mathematics 21a and b.

#### **[Applied Physics 195. Introduction to Solid State Physics]**

Catalog Number: 1842

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*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Fundamental physical properties of crystalline solids discussed in terms of the basic principles of classical and quantum physics. Crystal structure, lattice vibrations, specific heat, energy band theory of metals and semiconductors and insulators, electrical transport in metals and semiconductors, optical and magnetic properties, superconductivity.

*Note:* Expected to be given in 2006–07. Designed as a first course in solid state physics for students with knowledge of elementary quantum mechanics (Physics 143a). Some knowledge of statistical physics (Physics 181) is also helpful, but not a formal prerequisite. Students who propose to take Applied Physics 295a in the spring term, and who have not previously taken a formal course in solid state physics, are strongly advised to take this course first. Students may wish to take Physics 195, whose content is very similar, when this course is bracketed.

### ***Cross-Listed Courses***

#### **[Applied Mathematics 147. Nonlinear Dynamical Systems]**

#### **Earth and Planetary Sciences 131. Introduction to Physical Oceanography**

### ***Primarily for Graduates***

Additional courses of interest to graduate students in Applied Physics include: Applied Mathematics 203, Engineering Sciences 220, 225r, 240, 241, 242r, 246, 247, and 274.



### **Applied Physics 216. Modern Optics and Quantum Electronics**

Catalog Number: 4691

*Lene V. Hau*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Optical systems and lasers have recently revolutionized both technology and basic research. We cover the fundamental physics, and topics include Fourier optics, optical cavities and lasers.

Non-linear optics. Optics with nanostructures. Optics for bio-molecule studies.

*Prerequisite:* A class in electromagnetism/electrodynamics.

### **Applied Physics 218. Electrical, Optical, and Magnetic Properties of Materials**

Catalog Number: 9804

*Shriram Ramanathan*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Classical and quantum description of electrical, optical and magnetic properties, and their fundamental physical origins; experimental techniques. Properties of compositionally complex materials such as ceramics. Structure-property relations. Applications in semiconductor, information storage, energy industries.

*Prerequisite:* Introductory solid-state physics or equivalent course.

### **Applied Physics 225. Introduction to Soft Matter**

Catalog Number: 5298

*Vinothan N. Manoharan*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduction to soft condensed matter, or “complex fluids,” including polymers, colloids, liquid crystals, and biological structures. Emphasis on physical principles that govern bulk behavior.

Students will understand the concepts, experimental techniques, and open questions.

*Prerequisite:* Knowledge of thermodynamics with basic statistical mechanics and some familiarity with Fourier transforms and differential equations.

### **[Applied Physics 269r. Topics in Statistical Physics and Quantitative Biology]**

Catalog Number: 5063

*Daniel S. Fisher*

*Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Develops theoretical basis for modeling, analysis, and understanding of a spectrum of physical and biological problems. Spring 2005 focus will be dynamical and stochastic phenomena in biology at molecular, cellular, organismic, and population levels.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Applied mathematics at level of 105a and 105b and some background in statistical mechanics or probability/combinatorics.

### **Applied Physics 282. Solids: Structure and Defects**

Catalog Number: 5737

*Frans A. Spaepen*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Bonding, crystallography, diffraction, phase diagrams, microstructure, point defects, dislocations, grain boundaries.





*Note:* Intended for students planning to specialize in applied mechanics, materials science, solid state physics, and chemistry.

### **Applied Physics 284. Statistical Thermodynamics**

Catalog Number: 2257

*Subir Sachdev*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Basic principles of statistical physics and thermodynamics, with applications including: the equilibrium properties of classical and quantum gases; phase diagrams, phase transitions and critical points, as illustrated by the gas-liquid transition and simple magnetic models; Bose-Einstein condensation.

*Note:* Students may wish to take Physics 262 when this course is bracketed.

*Prerequisite:* Ordinarily, Physics 143a,b and Physics 181 or Engineering Sciences 181.

### **Applied Physics 291. Electron Microscopy Laboratory**

Catalog Number: 1761 Enrollment: Limited to 15.

*David C. Bell*

*Half course (spring term). M., 2–3:30 and a laboratory to be arranged. EXAM GROUP: 7, 8*

Lectures and laboratory instruction on transmission electron microscopy (TEM) and microanalysis. Students perform experiments with the TEM including electron diffraction, dark field imaging, X-ray spectroscopy, atomic structure imaging and materials sample preparation.

*Note:* Primarily for graduate students planning to use materials analysis in their research.

### **Applied Physics 292. Kinetics of Condensed Phase Processes**

Catalog Number: 3733

*Michael J. Aziz*

*Half course (spring term). M., W., F., at 11, and occasional laboratory to be arranged. EXAM GROUP: 4*

Kinetic principles underlying atomic motions, transformations, and other atomic transport processes in condensed phases. Application to atomic diffusion, continuous phase transformations, nucleation, growth, coarsening, and other kinetic phenomena in bulk, thin film, and surface states.

*Prerequisite:* An undergraduate-level course in thermodynamics.

### **Applied Physics 293. Deformation of Solids**

Catalog Number: 6796

*Frans A. Spaepen*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Phenomenology and theory of the mechanisms by which solids can deform, including elastic deformation, microscopic dislocation glide and the kinetics of slip, dislocation and diffusional creep; deformation mechanism maps; fracture.

*Prerequisite:* Knowledge of thermodynamics and elements of crystal structure.

### **\*Applied Physics 294hfr. Materials Science Seminar**

Catalog Number: 4924

*Frans A. Spaepen and Michael J. Aziz*



*Half course (throughout the year). Th., at 1. EXAM GROUP: 15*

Special topics in materials science.

*Prerequisite:* Consult with course heads.

### **Applied Physics 295a. Introduction to Quantum Theory of Solids**

Catalog Number: 6937

*Efthimios Kaxiras*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Properties of solids, electrical, optical, thermal, magnetic, mechanical, are treated based on an atomic scale picture and using the single electron approximation. Metals, semiconductors, and insulators are covered, including special topics such as superconductivity.

*Prerequisite:* Applied Physics 195 or equivalent, and one full quantum mechanics graduate level course similar to Physics 251a. Physics 251b may be taken concurrently.

### **Applied Physics 295b. Quantum Theory of Solids**

Catalog Number: 3610

*Eugene A. Demler*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Theoretical description of solids focusing on the effects of interactions between electrons, including dielectric response, Fermi liquid theory, magnetism, and superconductivity.

*Prerequisite:* Applied Physics 295a, Physics 251a & 251b, or permission of instructor.

### **[Applied Physics 296r. Superconductivity]**

Catalog Number: 0219

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*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to theoretical and applied superconductivity: BCS and Ginzburg-Landau theories, type I and II superconductors, Josephson effect, flux motion and dissipation, high-temperature superconductors, macroscopic quantum tunneling, Coulomb blockade and the single-electron tunneling transistor, superconducting qubits.

*Note:* Expected to be given in 2006–07.

### **Applied Physics 298r. Materials Chemistry and Physics: Seminar**

Catalog Number: 7500

*David A. Weitz and members of the Faculty*

*Half course (spring term). M., W., 12–1:30. EXAM GROUP: 5, 6*

Materials-related topics chosen from: Structure and Self-Assembly; Mechanical Properties; Surfaces and Interfaces; Biomaterials; Synthesis and Fabrication; Characterization Techniques; Soft Materials, Complex Fluids. Each chosen topic is discussed in about five didactic lectures.

*Note:* Suitable for graduate students with undergraduate concentrations in chemistry, engineering, or physics having present or potential research interests in this field. A paper and oral presentation on two of the principal topics under discussion assigned. Taught by faculty from Chemistry, Physics, and the Division of Engineering and Applied Sciences who are associated with Harvard's Materials Research Science and Engineering Laboratory.



**Applied Physics 299r. Special Topics in Applied Physics**

Catalog Number: 2103

*Venkatesh Narayanamurti*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervision of experimental or theoretical research on acceptable applied physics problems and supervision of reading on topics not covered by regular courses of instruction.

*Note:* Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the Division. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

***Cross-Listed Courses***

**Physics 232 (formerly Physics 232a). Advanced Electromagnetism**

***Graduate Courses of Reading and Research***

Reading courses are odd-numbered; research courses are even-numbered.

**\*Applied Physics 323,324. Topics in Nano-Scale Material Science**

Catalog Number: 5947,5970

*Shriram Ramanathan 5341*

**\*Applied Physics 325,326. Optics with Cold Atoms, Nano-structures, and Bio-molecules**

Catalog Number: 0488,7669

*Lene V. Hau 2151 (on leave fall term)*

**\*Applied Physics 327,328. Optical and Optoelectronic Information Systems and Technology**

Catalog Number: 8209,4795

*R. Victor Jones 1107*

**\*Applied Physics 331,332. Experimental Condensed Matter Physics**

Catalog Number: 0467,1560

*Robert M. Westervelt 6148*

**\*Applied Physics 333,334. Electronic Properties of Nanostructures, Interaction of Biomolecules with Nanostructures, and X-Ray Physics**

Catalog Number: 1033,6126

*Jene A. Golovchenko 1986 (on leave spring term)*

**\*Applied Physics 335,336. Theoretical Study of the Structure and Electronic Properties of Nanoscale Materials and Biological Macromolecules**

Catalog Number: 7902,7903

*Efthimios Kaxiras 3050*



**\*Applied Physics 337,338. Growth and Properties of Nanostructures and Nanostructure Assemblies; Development and Application of New Probe Microscopies; Biophysics**

Catalog Number: 3050,3051

*Charles M. Lieber 3102 (on leave fall term)*

**\*Applied Physics 339,340. Topics in Electromagnetic Theory**

Catalog Number: 4258,3127

*Tai T. Wu 1051 (on leave spring term)*

**\*Applied Physics 343,344. Topics in Electromagnetic Theory and Molecular Spectroscopy**

Catalog Number: 2695,4213

*Patrick Thaddeus 1398*

**\*Applied Physics 347,348. Solid Mechanics in Seismology and Materials Physics**

Catalog Number: 4033,3514

*James R. Rice 7270*

**\*Applied Physics 351,352. Statistical and Condensed Matter Theory**

Catalog Number: 3992,3993

*Paul C. Martin 2103 (on leave fall term)*

**\*Applied Physics 353,354. Theoretical Statistical Physics and Biology**

Catalog Number: 5186,5941

*Daniel S. Fisher 2600*

**\*Applied Physics 355,356. Special Topics in Theoretical Engineering**

Catalog Number: 4864,9197

*Michael P. Brenner 4101*

**\*Applied Physics 357,358. Photonics: Micro- and Nano-fabrication Scanning**

Catalog Number: 3865,5593

*Kenneth B. Crozier 5146*

**\*Applied Physics 359,360. Nonlinear Laser Physics and Materials Engineering**

Catalog Number: 5760,3525

*Eric Mazur 7952*

**\*Applied Physics 361,362. Photonics, Quantum Devices and Nanostructures**

Catalog Number: 9431,9506

*Federico Capasso 4571 (on leave spring term)*

**\*Applied Physics 363,364. Experimental Soft Condensed Matter Physics**

Catalog Number: 8975,7242

*David A. Weitz 2497*



**\*Applied Physics 365,366. Experimental Condensed Matter: Ballistic Transport in Semiconductors, Nanostructures, and Tunneling Microscopy**

Catalog Number: 9195,0425

*Venkatesh Narayanamurti 5445*

**\*Applied Physics 367,368. Topics on Condensed Matter Physics**

Catalog Number: 6975,4173

*David R. Nelson 5066*

**\*Applied Physics 369,370. Experimental Condensed Matter: Synchrotron X-Ray Scattering Studies of Interfacial Phenomena (Liquids and Solid)**

Catalog Number: 2442,7532

*Peter S. Pershan 1105*

**\*Applied Physics 375,376. Superconductivity and Mesoscopic Physics**

Catalog Number: 8203,4912

*Michael Tinkham 2131 (on leave 2005-06)*

**\*Applied Physics 381,382. Special Topics in Fluid Dynamics**

Catalog Number: 4554,2668

*Howard A. Stone 2073*

**\*Applied Physics 383,384. Topics in Atmospheric and Climate Dynamics**

Catalog Number: 3214,3221

*Zhiming Kuang 5285*

**\*Applied Physics 385,386. Dynamics of the Ocean; Interdisciplinary Modeling; Geophysical Fluid Dynamics**

Catalog Number: 2878,2879

*Allan R. Robinson 2133*

**\*Applied Physics 387,388. Climate Dynamics and Physical Oceanography**

Catalog Number: 3549,8599

*Eli Tziperman 4748*

**\*Applied Physics 389,390. Electronic Theory of Condensed Matter**

Catalog Number: 5425,1600

*Henry Ehrenreich 2411*

**\*Applied Physics 391,392. Experimental Soft Condensed Matter and Materials Physics**

Catalog Number: 1164,5559

*Vinothan N. Manoharan 5251*

**\*Applied Physics 393,394. Experimental Studies of Interfaces and Surfaces**

Catalog Number: 1331,5451

*Cynthia M. Friend 7446*



**\*Applied Physics 395,396. Topics in Materials Science**

Catalog Number: 4012,5003

*Michael J. Aziz 1337*

**\*Applied Physics 397,398. Materials Science**

Catalog Number: 4266,5010

*Frans A. Spaepen 4991*

## Archaeology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Archaeology*

Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies (*Chair*) (*on leave 2005-06*)

Richard H. Meadow, Senior Lecturer on Anthropology (*Acting Chair*)

Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies (*on leave 2005-06*)

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

Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art (*on leave spring term*)

C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology

Peter Machinist, Hancock Professor of Hebrew and Other Oriental Languages

Lawrence E. Stager, Dorot Professor of the Archaeology of Israel (*on leave spring term*)

Irene J. Winter, William Dorr Boardman Professor of Fine Arts

The Committee on Archaeology is a multidisciplinary group of scholars appointed to promote the teaching of archaeology at Harvard and advance knowledge of archaeological activity, research, fieldwork, and techniques in the many and varied fields where archaeology is employed as an approach to past cultures and histories around the world. Archaeology can be seen as the study of past human societies through the recovery, analysis, and interpretation of material remains. Those who practice archaeology employ a wide range of methods, techniques, and theoretical orientations drawn from across the spectrum of academic disciplines to further their specific intellectual goals. Likewise, scholars of many disciplines who do not consider themselves to be practicing archaeologists nevertheless use the results of archaeological work in their teaching and research.

The teaching of archaeology at Harvard is centered in four departments (programs thereof): Anthropology (Archaeology), The Classics (Classical Archaeology), History of Art and Architecture, and Near Eastern Languages and Civilizations (Ancient Near Eastern and Biblical



Studies), although a number of other departments, as well as the Core Curriculum, also have courses whose instructors integrate archaeological subject matter into their offerings.

The listing below is a compilation of courses in which the practice of archaeology is taught or the use of archaeological information is integral. The interested student is urged to consult the full listings of the various departments for related courses, relevant undergraduate tutorials, and graduate-level reading courses.

### *Core Curriculum*

[Foreign Cultures 12. Sources of Indian Civilization](#)

[Foreign Cultures 34. Mesoamerican Civilizations](#)

[Historical Study B-06. The Roman Games]

[Historical Study B-13. Charlemagne and the Birth of Medieval Civilization]

[Literature and Arts B-21. The Images of Alexander the Great](#)

[Literature and Arts C-61. The Rome of Augustus](#)

[Science B-27. Human Evolution]

[Science B-29. Evolution of Human Nature](#)

[Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States](#)

### *Freshman Seminars*

[\\*Freshman Seminar 21j. Human Evolution](#)

[\\*Freshman Seminar 39o. Cylinder Seals in the Ancient Near East](#)

### *Anthropology*

[Anthropology 1010 \(formerly Anthropology 101\). Introduction to Archaeology](#)

[Anthropology 1040 (formerly Anthropology 140). Origins of the Food We Eat]

[Anthropology 1050. Nutritional Biochemistry and Isotope Ecology](#)

[Anthropology 1060 \(formerly Anthropology 166\). Archaeological Science](#)

[Anthropology 1065. GIS and Spatial Analysis in Archaeology](#)

[Anthropology 1080. North American Prehistory]

[Anthropology 1090. Ethnography and Archaeology]

[Anthropology 1120. Comparative Analysis of Ancient Civilizations]

[Anthropology 1130. Archaeology of Harvard Yard](#)

[\*Anthropology 1140. Human Modification of the Landscape]

[Anthropology 1170. Mesoamerican Writing Systems ]

[Anthropology 1174 (formerly Anthropology 174). The Incas]

[Anthropology 1175 (formerly Anthropology 175). The Archaeology of Ethnicity]

[Anthropology 1176. Ancient Cultures of the Andes](#)

[Anthropology 1177 (formerly Anthropology 177). South American Archaeology]

[Anthropology 1210. The Archaeology of Early China](#)

[Anthropology 1215. The Neolithic Revolution in Southwestern Asia](#)

[Anthropology 1220. Human Evolution: The Record of the Material Culture]

[\*Anthropology 2000. Osteoarchaeology Lab]





[Anthropology 2010ar. Materials in Ancient Societies: Bone \(Human Osteology\)](#)  
[Anthropology 2010br. Materials in Ancient Societies: Bone \(Zooarchaeology\)](#)  
[Anthropology 2025. From Hunter-Gatherers to First Farmers](#)  
[Anthropology 2050 \(formerly Anthropology 252\). Introduction to Maya Hieroglyphs](#)  
[Anthropology 2060. Holy War, the Aztec Empire, and the Spanish Conquest]  
[Anthropology 2063. Ancient Landscapes](#)  
[\\*Anthropology 2070a \(formerly \\*Anthropology 207\). Archaeological Method and Theory: Seminar](#)  
[Anthropology 2070b. Case Studies and Research Proposal Preparation](#)  
[Anthropology 2090. The Archaeology of Diasporas and Trade: Seminar](#)  
[Anthropology 2175. The Inca Quipu]  
[Anthropology 2240. Archaeology of Production: Seminar]  
[Anthropology 2360r (formerly Anthropology 206r). Topics in Paleolithic Archaeology and Human Evolution]

*Biological Sciences*

[\\*Biology 95hfg. Cape Cod and Islands: Historical Ecology and Conservation](#)

*Celtic Languages and Literatures*

[Celtic 107. Early Irish History]  
[Celtic 150. Celtic Paganism]

*The Classics*

[Classical Archaeology 97r. Classical Archaeology]  
[Classical Archaeology 100. Introduction to Classical Archaeology]  
[Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200-300 BCE](#)  
[Classical Archaeology 142. Sardis: An Urban Center Between East and West](#)  
[Classical Archaeology 160. Athenian Vase Painting]  
[Classical Archaeology 192. Greek Art and History through Coins](#)  
[Classical Archaeology 243. Greece and Macedonia in the Fourth Century BC](#)  
[\*Classical Archaeology 351. Classical Archaeology Proseminar]  
[Classics 158. Hellenistic Greece from Alexander to Augustus](#)

*East Asian Languages and Civilizations*

[Chinese History 233. Sources for Early Chinese History]  
[Korean History 111. Traditional Korea](#)

*History*

[\\*History 90i. Major Themes in Ancient History](#)  
[History 1085. The Roman Empire, Augustus to Constantine]  
[History 1101. Medieval Europe](#)



[History 1140. Introduction to Medieval Archaeology](#)

[History 1142. Carolingian Civilization](#)

[History 1143. Microhistorical Approaches to the Middle Ages: Conference Course](#)

[History 1904. The History of Sub-Saharan Africa to 1860]

[History 2051. Ethnic Identities in Classical Antiquity: Seminar](#)

### *History of Art and Architecture*

[History of Art and Architecture 13k. Introduction to Roman Art and Architecture](#)

[History of Art and Architecture 19v. Art in Africa](#)

[History of Art and Architecture 101. The Materials of Art]

[\\*History of Art and Architecture 130. Topography and Monuments of Ancient Rome](#)

[History of Art and Architecture 132v. Aegean Painting and the Ancient World](#)

[History of Art and Architecture 133. Greek Architecture and Urbanism]

[\\*History of Art and Architecture 137. Cross-Cultural Aesthetics: Proseminar](#)

[History of Art and Architecture 193. Painting Traditions in Africa]

[History of Art and Architecture 197. The Imperial Arts of the Inca and the Aztec](#)

[\*History of Art and Architecture 232. Assyrian Reliefs and the Decorative Programs of Assyrian Palaces]

[\\*History of Art and Architecture 235p. Roman Painting](#)

[\\*History of Art and Architecture 236v. The Body in Ancient Art](#)

[\*History of Art and Architecture 271m. Architecture, Display, and Mass Culture in 19th/20th c.]

[\\*History of Art and Architecture 291r. Topics in Pre-Columbian and Colonial Art](#)

### *Medieval Studies*

[Medieval Studies 101. The Auxiliary Disciplines of Medieval History: Proseminar]

[Medieval Studies 211. The Archaeology and History of European Towns, 500–1000](#)

### *Near Eastern Languages and Civilizations*

[Ancient Near East 100. History of the Ancient Near East: Mesopotamia]

[Ancient Near East 101. Introduction to Mesopotamian Archaeology](#)

[Ancient Near East 102. Introduction to Mesopotamian Religion](#)

[Ancient Near East 105. History of the Ancient Near East: The Levant (up to Alexander the Great)]

[Ancient Near East 115. Archaeology of the Levant (Syria-Palestine)]

[Ancient Near East 117. Biblical Archaeology](#)

[Ancient Near East 118. Syro-Palestinian Pottery](#)

[\*Ancient Near East 215r. Problems in the Archaeology of Bronze and Iron Age Levant: Seminar]

### *The Study of Religion*



**Religion 1400. Introduction to the New Testament: History and Interpretation**

**[Religion 1409. The New Testament, Biblical Studies, and Empire: Seminar ]**

**[Religion 2348ab. Archaeology and the World of the New Testament: Seminar]**

***Sanskrit and Indian Studies***

**[Indian Studies 110. History of South Asia to 1200 CE]**

## Asian Studies Programs

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Council on Asian Studies***

Anthony Saich, Daewoo Professor of International Affairs (*Kennedy School*) (*Chair*)

William P. Alford, Henry L. Stimson Professor of Law (*Law School*)

Theodore C. Bestor, Professor of Anthropology

Homi K. Bhabha, Anne F. Rothenberg Professor of English and American Literature and Language

Barry R. Bloom, Joan L. and Julius H. Jacobson Professor of Public Health (*Public Health*)

Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations

Harold Bolitho, Professor of Japanese History

Sugata Bose, Gardiner Professor of Oceanic History and Affairs (*on leave 2005-06*)

Mary C. Brinton, Reischauer Institute Professor of Sociology

James K.M. Cheng, Librarian of the Harvard-Yenching Library

Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society

Carter J. Eckert, Yoon Se Young Professor of Korean History

Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History

Shengli Feng, Professor of the Practice of Chinese Language

Andrew Gordon, Lee and Juliet Folger Fund Professor of History

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)

Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society

William C. Hsiao, K. T. Li Professor of Economics (*Public Health*)

Wilt Lukas Idema, Professor of Chinese Literature (*on leave 2005-06*)

Akira Iriye, Charles Warren Research Professor of American History

Wesley M. Jacobsen, Professor of the Practice of Japanese Language

William C. Kirby, Edith and Benjamin Geisinger Professor of History and Dean of the Faculty of Arts and Sciences

Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology (*FAS*) and Professor of Psychiatry and Medical Anthropology (*Medical School*)



Wai-yee Li, Professor of Chinese Literature  
 Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science  
 David McCann, Korea Foundation Professor of Korean Literature  
 Michael B. McElroy, Gilbert Butler Professor of Environmental Studies  
 F. Warren McFarlan, Baker Foundation Professor and Albert H. Gordon Professor of Business, Emeritus (*Business School*)  
 Anne Elizabeth Monius, Professor of South Asian Religions (*Divinity School*)  
 Robert D. Mowry, Senior Lecturer on History of Art and Architecture  
 Stephen Owen, James Bryant Conant University Professor  
 Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)  
 Elizabeth J. Perry, Henry Rosovsky Professor of Government (*on leave spring term*)  
 Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics (*on leave spring term*)  
 Michael J. Puett, Professor of Chinese History  
 John Mark Ramseyer, Professor of Japanese Legal Studies (*Law School*)  
 Peter G. Rowe, Raymond Garbe Professor of Architecture and Urban Design (*Design School*) and Harvard University Distinguished Service Professor  
 Mary M. Steedly, Professor of Anthropology  
 Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History  
 Wei-Ming Tu, Harvard-Yenching Professor of Chinese History and Philosophy and of Confucian Studies  
 Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies  
 Richard H. K. Vietor, Senator John Heinz Professor of Environmental Management (*Business School*)  
 Eugene Wang, Abby Aldrich Rockefeller Professor of Asian Art (*on leave 2005-06*)  
 James L. Watson, Harvard College Professor and John King and Wilma Cannon Fairbank Professor of Chinese Society  
 Rubie S. Watson, Senior Lecturer on Anthropology  
 Martin K. Whyte, Professor of Sociology (*on leave spring term*)

The Council on Asian Studies was created by resolutions of the Faculty of Arts and Sciences of April 12, 1972, and April 25, 2001. It exists to coordinate, advise, and promote teaching and research on Asia. It is comprised of faculty members from different departments of the FAS and from several schools of the University who study East Asia, Southeast Asia, South Asia, and Inner Asia. It oversees or advises several academic programs mentioned below, and it provides faculty oversight to the Harvard University Asia Center.

The AM program in Regional Studies—East Asia and the PhD program in History and East Asian Languages are supervised by the Council and are described below.

The AB Concentration in East Asian Studies is advised and supported by the Council, and is described under East Asian Languages and Civilizations. Courses on East Asian languages, early history, literature, and thought are listed under East Asian Languages and Civilizations.

Programs in South Asian Studies and in Inner Asian and Altaic Studies are advised and supported by the Council and are listed separately in the catalog.



Other courses in Asian Studies are listed under the Core Curriculum, Anthropology, Economics, History of Art and Architecture, Government, History, Linguistics, Psychology, Sociology, the Study of Religion, and other departments.

The Harvard University Asia Center was created in 1997. Its Steering and Executive Committees are drawn from the Faculty of the Council on Asian Studies. The Center coordinates and supports research, teaching, and public programs on Asia throughout the University. The Center sponsors lectures, seminars, and conferences; supports faculty and student research; publishes books and journals; funds research and travel grants to undergraduate and graduate students; administers Harvard's National Resource Center for East Asian Studies, and manages the competition for Title VI Foreign Language and Area Studies Fellowships for graduate and professional students. The Center publishes a bi-weekly calendar of events during the Academic Year. The Center's main office is located in Coolidge Hall, on the third floor.

***Faculty of the Standing Committee on the Degree of Master of Arts in Regional Studies–East Asia***

David Der-Wei Wang, Edward C. Henderson Professor of Chinese Literature (*Chair*)  
 David McCann, Korea Foundation Professor of Korean Literature (*Acting Chair, fall term*)  
 Mikael Adolphson, Associate Professor of Japanese History  
 Daniel V. Botsman, Associate Professor of History  
 Sun Joo Kim, Associate Professor of Korean History

The program in Regional Studies–East Asia, leading to a Master of Arts degree, is a basic preparation (1) for students who intend to go on to PhD work in an East Asian specialization; and (2) for students who wish to equip themselves for nonacademic work. The program, which normally requires two years for completion, aims to make the student broadly conversant with the societies of the region, and also to give him or her a sound knowledge of one of the languages of the area. Details may be obtained from the Committee's offices at 1730 Cambridge Street, Cambridge, MA, 02138 or 617-495-3777.

***Faculty of the Standing Committee on the Degree of Doctor of Philosophy in History and East Asian Languages***

Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History (*Chair*)  
 Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations  
 Harold Bolitho, Professor of Japanese History  
 Carter J. Eckert, Yoon Se Young Professor of Korean History  
 Andrew Gordon, Lee and Juliet Folger Fund Professor of History  
 William C. Kirby, Edith and Benjamin Geisinger Professor of History and Dean of the Faculty of Arts and Sciences  
 Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations (*on leave fall term*)  
 Shigehisa Kuriyama, Reischauer Institute Professor of Cultural History  
 Michael J. Puett, Professor of Chinese History



Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History

The Committee, drawn from the two departments of History and of East Asian Languages and Civilizations, administers a program leading to the PhD degree. The program in general combines study of the Chinese and Japanese languages (and sometimes other East Asian languages such as Korean, Mongolian, or Vietnamese) with advanced study and research in East Asian history. Normally this requires four courses (or equivalent) in the primary language, two and one-half in the secondary, and preparation for an oral examination in three history fields, of which two are ordinarily East Asian, and one Western, depending on the individual's preparation and program. In some cases, fulfilling these requirements may entail taking a fourth field. Further information may be obtained from the office of the Committee, at Vanserg 206, 10 Divinity Avenue, Cambridge, MA, 02138.

### ***Graduate Courses of Reading and Research***

#### **\*Regional Studies — East Asia 300. Reading and Research**

Catalog Number: 4614

*David Der-Wei Wang and members of the Committee*

Designed to provide students with the opportunity to do reading and research in an approved area of their choice under the direction of a member of the Committee.

*Note:* Limited to students affiliated with the Regional Studies-East Asia program.

#### **\*Regional Studies — East Asia 310. Thesis Development**

Catalog Number: 8453

*David Der-Wei Wang and members of the Committee*

Designed to allow students to develop previous research or a previously written paper into the AM thesis, under the direction of an appropriate faculty advisor.

*Note:* Limited to students affiliated with the Regional Studies-East Asia program. Counts as course credit, but not towards the basic course requirements for the degree.

## Astronomy

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Department of Astronomy***

Lars Hernquist, Professor of Astronomy (*Chair*)

Charles Alcock, Professor of Astronomy

David Charbonneau, Assistant Professor of Astronomy

Alexander Dalgarno, Phillips Professor of Astronomy (*on leave fall term*)



Bryan M. Gaensler, Assistant Professor of Astronomy (*Head Tutor*)  
 Alyssa A. Goodman, Professor of Astronomy  
 Jonathan E. Grindlay, Paine Professor of Practical Astronomy  
 John P. Huchra, Robert O. and Holly Thomis Doyle Professor of Cosmology  
 Robert P. Kirshner, Harvard College Professor and Clowes Professor of Science  
 Julia C. Lee, Assistant Professor of Astronomy  
 Abraham Loeb, Professor of Astronomy  
 James M. Moran, Donald H. Menzel Professor of Astrophysics (*on leave spring term*)  
 Ramesh Narayan, Thomas Dudley Cabot Professor of the Natural Sciences  
 George B. Rybicki, Professor of the Practice of Astronomy  
 Dimitar D. Sasselov, Professor of Astronomy  
 Irwin I. Shapiro, Timken University Professor  
 Christopher Stubbs, Professor of Physics and of Astronomy  
 Patrick Thaddeus, Robert Wheeler Willson Professor of Applied Astronomy  
 Matias Zaldarriaga, Professor of Astronomy and of Physics

***Other Faculty Offering Instruction in the Department of Astronomy***

Raymond Blundell, Lecturer on Astronomy  
 Thomas M. Dame, Lecturer on Astronomy  
 Daniel G. Fabricant, Lecturer on Astronomy  
 Giovanni G. Fazio, Lecturer on Astronomy  
 Lincoln J. Greenhill, Lecturer on Astronomy  
 Paul T. P. Ho, Lecturer on Astronomy  
 Matthew Holman, Lecturer on Astronomy  
 Kate Kirby, Lecturer on Astronomy  
 David W. Latham, Lecturer on Astronomy  
 Myron Lecar, Lecturer on Astronomy  
 Philip M. Sadler, Frances W. Wright Senior Lecturer on Celestial Navigation  
 Patrick O. Slane, Lecturer on Astronomy  
 Qizhou Zhang, Lecturer on Astronomy

Astronomy 1, 2, and Science A-35, A-36, A-47 provide a variety of approaches toward introducing the substance of astronomy and astrophysics to interested students. They are aimed at nonconcentrators with curiosity about the contents of the universe and its underlying organization. None of these courses presumes a knowledge of algebra more extensive than that used in a high school physics course. Astronomy 16 is aimed at freshman (and others) who are taking (or have taken) Physics 15a and are considering the concentration. Astronomy 97hf (the Introductory Tutorial) is open to sophomores and freshmen who are taking (or have taken) Physics 15a or the equivalent and are considering the concentration or a combined concentration. Astronomy 98hf and 99, Junior and Senior Tutorials, are intended for concentrators in Astronomy and Astrophysics, but are open in special cases to concentrators in other physical sciences. They provide an opportunity for close contact with the faculty and often result in significant research experience. Astronomy 45, 135, 145, 150, 191, 192, and 193 are intended primarily for concentrators in the physical sciences. Each of these courses uses the tools of mathematics and physics to reach an understanding of astronomical phenomena. Since the





prerequisites for these courses include substantial preparation in physics and mathematics, students with an interest in taking them or intending to concentrate in Astronomy and Astrophysics should make an effort to take Physics 15a,b,c and Mathematics 21a,b (or Mathematics 22a,b) at the earliest opportunity.

### ***Primarily for Undergraduates***

#### **[Astronomy 1. The Astronomical Universe]**

Catalog Number: 4287

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*Half course (spring term). Hours to be arranged.*

A general introductory course for nonscience concentrators. Topics include observational astronomy, the nature of the Sun and stars, the evolution of the universe from a hot big bang, its composition (including a discussion of what is currently understood about dark matter) and structure, the nature of space and time and current theories of quasars and black holes. Where possible, basic principles of physics are explained and then applied to astronomical phenomena, but no mathematics beyond elementary algebra is used.

*Note:* Expected to be given in 2006–07.

#### **Astronomy 2. Celestial Navigation**

Catalog Number: 2179 Enrollment: Limited to 30.

*Philip M. Sadler and assistants*

*Half course (fall term). Tu., 11:30–1:30, and Tu., 7–10 pm. EXAM GROUP: 13, 14*

Never be lost again! Find your way on sea, land, or air by employing celestial and terrestrial techniques. Acquire expertise in using navigators' tools (sextant, compass, and charts) while learning the steps to the celestial dance of the sun, moon, stars, and planets. This 107-year-old course continues to rely on practical skills and collaborative problem-solving, while utilizing historical artifacts (instruments, maps, captains' logs) and student-built devices.

*Note:* Minimum lecturing; predominantly practical laboratory activities with individual attention from teaching staff. Math beyond high school trigonometry and geometry unnecessary. Some familiarity with sailing and/or astronomy is helpful.

#### **Astronomy 16. Stars and Gas in the Milky Way**

Catalog Number: 8813

*Bryan M. Gaensler*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduction to the astronomical principles underlying the behavior of our Galaxy and its components. Basic physical concepts will be applied to orbits, the solar system, stellar spectra, stellar evolution, supernovae, black holes, interstellar gas and Galactic structure. Involves a significant observational component: the Knowles Telescope at the Science Center will be used to study binary stars and asteroids, while the CfA millimeter telescope will be used to measure the mass of the Milky Way.

*Prerequisite:* Physics 15a, or equivalent, may be taken concurrently.

#### **Astronomy 45. Introduction to Extragalactic Astrophysics and Cosmology**

Catalog Number: 5375



*Julia C. Lee*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Aims to focus on the modern questions in Astrophysics from radio to gamma rays. Course will be rooted in recent observational and theoretical results focused on black hole systems, dark energy, and cosmology. Some attention will also be given to the details of extant and future ground and space-based instruments devoted to answering some of these questions.

*Prerequisite:* Physics 15a, b (Physics 15b may be taken concurrently).

**\*Astronomy 91r. Supervised Reading and Research**

Catalog Number: 1545

*Lars Hernquist and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading and research in subjects not normally included in the regular course offerings of the department.

*Note:* Students must arrange for course supervision with an individual member of the department. The course may not be counted for the concentration requirements except by special permission and may not be taken more than twice.

**\*Astronomy 97hf. Introductory Tutorial**

Catalog Number: 6604

*Irwin I. Shapiro, Christopher Stubbs and members of the Department*

*Half course (throughout the year). F., 2–4.*

Introduction to methods of problem solving in astrophysics. Contact with Department of Astronomy faculty and their research programs. Students meet in small groups with a faculty member for two weeks to work through a problem as an introduction to astronomical questions and research methods. Through the year, each student meets with approximately 10 members of the department.

*Note:* Open to sophomore concentrators and others (including freshmen with Physics 15a or advanced placement) considering the concentration or a combined concentration.

*Prerequisite:* Physics 15a, b or equivalent (may be taken concurrently).

**\*Astronomy 98hf. Tutorial — Junior Year**

Catalog Number: 3121

*Irwin I. Shapiro and members of the Department*

*Half course (throughout the year). W., 2–4.*

Weekly lectures, assigned reading, and discussion meetings during the fall term, individually supervised program of reading and research leading to a paper and lecture on a chosen topic during the spring term.

*Note:* Normally a required course for junior concentrators in Astronomy. Open in special cases to concentrators in other physical sciences.

**\*Astronomy 99. Tutorial — Senior Year**

Catalog Number: 5413

*Irwin I. Shapiro and members of the Department*

*Full course. W., 2–4.*

For honors candidates in Astronomy. Individually supervised reading and research leading to the



honors thesis.

*Prerequisite:* Astronomy 98hf.

***Cross-listed Courses***

[Science A-35. Matter in the Universe](#)

[Science A-36. Observing the Sun and the Stars](#)

[Science A-47. Cosmic Connections](#)

[Science A-54. Life as a Planetary Phenomenon](#)

***For Undergraduates and Graduates***

**[\*Astronomy 135. Planetary System Astronomy]**

Catalog Number: 4850

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*Half course (spring term). Hours to be arranged.*

Uses our solar system as an example to understand the origin and evolution of planetary systems in general. Topics include the formation and evolution of the sun; origin, structure, and evolution of solar system planets; planetary satellites; small bodies of the solar system (comets, asteroids, and meteorites); solar magnetic activity and its influence on the Earth and planets; planets orbiting other stars; and the possibilities of habitable environments in other planetary systems.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Physics 15a, b, c, or Physics 11a, b, and permission of the instructor.

[Astronomy 145. Topics in Astrophysics](#)

Catalog Number: 0212

*Ramesh Narayan*

*Half course (spring term). M., W., 9:30–11. EXAM GROUP: 2, 3*

Discussion of a range of astrophysical systems and the physical processes that describe them. Topics include: stellar structure; energy generation in stars; white dwarfs, neutron stars, and black holes; the interstellar medium and star formation; the structure of the universe; cosmology and the Big Bang.

*Prerequisite:* Physics 143a (may be taken concurrently).

[Astronomy 150. Radiative Processes in Astrophysics](#)

Catalog Number: 8993

*George B. Rybicki*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Survey of radiative processes of astrophysical importance from radio waves to gamma rays. Thermal and non-thermal processes, including bremsstrahlung, synchrotron radiation, and Compton scattering. Radiation in plasmas. Atomic and molecular structure and spectra.

*Prerequisite:* Physics 143a (may be taken concurrently).

[Astronomy 191. Astrophysics Laboratory](#)

Catalog Number: 3615 Enrollment: Limited to 16.

*Patrick Thaddeus*



*Half course (spring term). F., at 2; First meeting: F., Feb 3, 2–4, Pratt conference room. EXAM GROUP: 7*

Laboratory and observational projects in astrophysics. Students choose two projects from a selection including: measurement of the cosmic microwave background radiation, molecules in interstellar clouds, the rotation of the galaxy, radio galaxies with the VLA, stars and clusters with the Knowles Telescope; and laboratory experiments including super-conducting submillimeter detectors, x-ray CCDs, and hard x-ray imaging detectors and telescopes.

*Note:* First meeting: Friday, February 3, 2–4, in the Pratt conference room. Primarily for concentrators in Astronomy and Astrophysics or combined concentrators with Physics. Students with Physics as their primary concentration, but with a serious interest in astrophysics, may take this to satisfy their laboratory requirement (in lieu of Physics 191) upon petition to the Head Tutor in Physics.

*Prerequisite:* Physics 15c or equivalent.

### **Astronomy 192. Tools and Techniques of Astronomical Measurements**

Catalog Number: 4741

*Christopher Stubbs*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Presentation of physical principles and techniques used for detection across the frequency domain of both electromagnetic and gravitational radiation. Description and analysis of the corresponding tools used for detection, including telescopes and basic instrumentation, present and (near-term) future. Discussion of different types of measurements—intensity, imaging, spectroscopic, polarimetric, astrometric, and interferometric—throughout the electromagnetic spectrum, including related parameter estimation and error analyses.

*Prerequisite:* Physics 15a, b, c and Applied Mathematics 105 (or equivalents).

### **[Astronomy 193. Noise and Data Analysis in Astrophysics]**

Catalog Number: 4495

*James M. Moran*

*Half course (spring term). Hours to be arranged.*

How to design experiments and get the most information from noisy, incomplete, flawed, and biased data sets. Basics of probability theory; Bernoulli trials; Bayes theorem; random variables; distributions; functions of random variables; moments and characteristic functions; Fourier transform analysis; Stochastic processes; estimation of power spectra. Digital data processing: sampling theorem, filtering; fast Fourier transform; spectrum of quantized data sets. Weighted least mean squares analysis and nonlinear parameter estimation. Noise processes in periodic phenomena. Image processing and restoration techniques.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics 21b or equivalent.

### ***Cross-listed Courses***

**Applied Mathematics 111. Introduction to Scientific Computing**

**Earth and Planetary Sciences 121. Terrestrial Planets**

**Earth and Planetary Sciences 238. Spectroscopy and Radiative Transfer of Atmospheres**

**[Earth and Planetary Sciences 250. Topics in Planetary Sciences]**



**Earth and Planetary Sciences 264r. Topics in Planetary Magnetism**  
**Physics 191r. Advanced Laboratory**

***Primarily for Graduates***

These courses are primarily aimed at graduate students in astronomy, although properly prepared undergraduates and graduate students from other fields are welcome. The required graduate core course are Astronomy 150, 201a and b, and 202a and b, while a wide range of advanced courses is available for further work. Courses may be available as reading courses at times other than those shown, by arrangement with the instructor. Graduate students in Astronomy are required to take one graduate Physics course selected from Physics 210 or 251a (or Astronomy 251). More advanced Physics courses may be substituted upon petition to the Committee on Academic Studies.

**Astronomy 200hf. Seminar in Modern Astrophysics and Cosmology**

Catalog Number: 8574

*Lars Hernquist and Charles Alcock*

*Half course (throughout the year). W., at 3. EXAM GROUP: 8*

Graduate seminar on topical areas in modern astrophysics and cosmology. Each term a different topic of current special interest is selected. Participants in this seminar discuss papers given by seminar members (in rotation). Several faculty members also participate.

*Note:* Participation for two terms is required to obtain credit

**[Astronomy 201a. Stellar and Planetary Astrophysics]**

Catalog Number: 4303

*Dimitar D. Sasselov*

*Half course (fall term). Hours to be arranged.*

Stars are studied as the elementary baryonic building blocks of the Universe, and the main source of the evolution of baryonic matter (nucleosynthesis). Planetary systems are studied in terms of the stellar environments for their formation and survival.

*Note:* Expected to be given in 2006–07.

**[Astronomy 201b. Interstellar Medium and Star Formation]**

Catalog Number: 4206

*Irwin I. Shapiro*

*Half course (spring term). Hours to be arranged.*

Nature of the Interstellar Medium, throughout density-temperature parameter space. Processes leading to the formation of stars and planets, and the impact of star formation on the ISM.

Exchange between galactic material and the intergalactic medium.

*Note:* Expected to be given in 2006–07.

**Astronomy 202a. Galaxies and Dynamics**

Catalog Number: 8237

*Matias Zaldarriaga and Abraham Loeb*

*Half course (fall term). Tu., F., 10–11:30. EXAM GROUP: 3, 4, 12, 13*

An observational and theoretical overview of extragalactic astronomy with emphasis on



dynamics. The cosmological framework, galaxy morphology and structure, galactic dynamics, galactic content, gas dynamics, galaxy formation and evolution, galaxy populations and properties and clustering.

### **Astronomy 202b (formerly Astronomy 207). Cosmology**

Catalog Number: 2446

*Abraham Loeb and Matias Zaldarriaga*

*Half course (spring term). Tu., F., 10–11:30. EXAM GROUP: 3, 4, 12, 13*

The cosmological principle: isotropy and homogeneity, cosmological world models, thermal history of the Big Bang, the microwave background, growth of density fluctuations, formation and evolution of galaxies, active galactic nuclei, large scale structure, structure of galaxies, and clusters of galaxies.

### **Astronomy 218. Radio Astronomy**

Catalog Number: 2883

*James M. Moran*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Historical development; theory of antennas and interferometers; signal detection and measurement techniques. Thermal, synchrotron and spectral-line emission in the context of radio observations of the sun, planets, pulsars, masers, hydrogen clouds, molecular clouds, ionized regions, active galaxies, quasars, and cosmic background.

*Prerequisite:* Astronomy 150 or Physics 153 recommended.

### **[Astronomy 219. High Energy Astrophysics]**

Catalog Number: 1858

*Jonathan E. Grindlay and Ramesh Narayan*

*Half course (spring term). Hours to be arranged.*

Discussion of relativistic and high-energy astrophysical phenomena and observational techniques. Accretion onto compact stars (white dwarfs, neutron stars, black holes); active galactic nuclei, galaxy clusters. Gamma-ray bursts and cosmic rays. X-ray and gamma-ray background.

*Note:* Expected to be given in 2006–07.

### **Astronomy 225. Formation of Stars and Planets**

Catalog Number: 0983

*Members of the Department*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Physical properties of interstellar medium, molecular clouds and their cores, young stellar objects in isolation and in clusters, dynamical processes in star formation and circumstellar disk evolution, properties of the primitive solar nebula and solar system development, extrasolar planetary systems.

### **[Astronomy 251. Quantum Mechanics for Astrophysics]**

Catalog Number: 5381

*Alexander Dalgarno and Kate Kirby*

*Half course (fall term). Hours to be arranged.*



Quantum mechanics with applications to atomic and molecular processes important in astronomical environments. Atomic and molecular structure; spectroscopy (selection rules, oscillator strengths, photoionization); scattering theory (elastic, inelastic, approximate methods); line broadening; collision processes (cross sections, rate coefficients) involving electrons, ions, atoms, and molecules.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Physics 143a or the equivalent, or permission of instructor.

### ***Cross-listed Courses***

**[Applied Mathematics 205. Practical Scientific Computing]**

**[Physics 210. General Theory of Relativity](#)**

**[Physics 251a. Advanced Quantum Mechanics I](#)**

### ***Graduate Courses of Reading and Research***

Unless otherwise specified, these courses are given fall term, repeated spring term.

#### **\*Astronomy 300. Topics in Modern Astrophysics**

Catalog Number: 7915

*Charles Alcock 5194, Raymond Blundell 2753, David Charbonneau 5225, Alexander Dalgarno 1157 (on leave fall term), Thomas M. Dame 2755, Daniel G. Fabricant 3711, Giovanni G. Fazio 1143, Bryan M. Gaensler 4493, Alyssa A. Goodman 3348, Lincoln J. Greenhill 4490, Jonathan E. Grindlay 4593, Lars Hernquist 4250, Paul T. P. Ho 7532, Matthew Holman 1260, John P. Huchra 6271, Kate Kirby 4708, Robert P. Kirshner 1071, David W. Latham 3716, Myron Lecar 1026, Julia C. Lee 5305, Abraham Loeb 3349, James M. Moran 4090 (on leave spring term), Ramesh Narayan 2871, George B. Rybicki 3734, Dimitar D. Sasselov 1020, Irwin I. Shapiro 7660, Patrick O. Slane 4838, Christopher Stubbs 4856, Patrick Thaddeus 1398, David J. Wilner 2855, Matias Zaldarriaga 4603, and Qizhou Zhang 4477*

A seminar, reading, or research course may be arranged with any of the faculty listed. Students can also arrange to obtain Astronomy 300 credit for reading or research with scientific staff members of the Harvard-Smithsonian Center for Astrophysics; consult Astronomy Department office.

#### **\*Astronomy 301hf. Research Forum**

Catalog Number: 5224

*Alyssa A. Goodman 3348*

*Half course (throughout the year). W., 4–5:30.*

Each week, a speaker (ordinarily faculty in the Fall and students in the Spring) will describe a work-in-progress. Forum participants will discuss the ongoing work with the presenter, offering both questions and suggestions.

*Note:* Intended both as an opportunity for substantive discussion, and as training in the clear presentation of scientific ideas. No visual aids other than a blackboard and a one-page handout will be allowed (e.g. no PowerPoint).

#### **\*Astronomy 302. Scientists Teaching Science**

Catalog Number: 9869





*Philip M. Sadler 2231*

*Half course (spring term). Tu., 2–3:30.*

Learn the secrets of lecturing well, leading discussions, connecting to real-world applications, and creating tests in any scientific discipline as we focus on relevant educational research and case studies, plus engage in practical classroom activities.

*Note:* Open to graduate students in all areas of science and uses activities to draw upon research findings from the life, earth, and physical sciences.

*Prerequisite:* Experience as an instructor of science or as a teaching fellow.

### ***Cross-listed Courses***

**\*Statistics 310hfr. Topics in Astrostatistics**

## Biological Sciences

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Department of Molecular and Cellular Biology***

Andrew W. Murray, Herchel Smith Professor of Molecular Genetics (*Chair*)

Naama Barkai, Visiting Professor of Molecular and Cellular Biology

Howard C. Berg, Herchel Smith Professor of Physics and Professor of Molecular and Cellular Biology, Tutor in Biochemical Sciences (*on leave fall term*)

Vicki L. Cameron, Visiting Professor of Molecular and Cellular Biology (*Ithaca College*)

John E. Dowling, Gordon and Llura Gund Professorship of Neurosciences (*FAS*) and Professor of Ophthalmology (*Medical School*)

Catherine Dulac, Professor of Molecular and Cellular Biology

Kevin C. Eggen, Assistant Professor of Molecular and Cellular Biology

Florian Engert, Assistant Professor of Molecular and Cellular Biology

Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology (*on leave fall term*)

William D. Fixsen, Senior Lecturer on Molecular and Cellular Biology

Nicole J. Francis, Assistant Professor of Molecular and Cellular Biology

Rachelle Gaudet, Assistant Professor of Molecular and Cellular Biology (*Co-Head Tutor, Biochemical Sciences*)

William M. Gelbart, Professor of Molecular and Cellular Biology

Guido Guidotti, Higgins Professor of Biochemistry (*on leave fall term*)

J. Woodland Hastings, Paul C. Mangelndorf Professor of Natural Sciences

Craig P. Hunter, Professor of Molecular and Cellular Biology



David Jeruzalmi, Assistant Professor of Molecular and Cellular Biology  
Nancy Kleckner, Herchel Smith Professor of Molecular Biology  
Jeremy R. Knowles, Harvard University Distinguished Service Professor and Amory Houghton Professor of Chemistry and Biochemistry  
Samuel M. Kunes, Professor of Molecular and Cellular Biology (*on leave fall term*)  
Jeff Lichtman, Professor of Molecular and Cellular Biology  
Richard M. Losick, Maria Moors Cabot Professor of Biology (*Co-Head Tutor, Biochemical Sciences*) (*on leave 2005-06*)  
Robert A. Lue, Senior Lecturer on Molecular and Cellular Biology (*Executive Director of Undergraduate Education in Molecular and Cellular Biology*)  
Tom Maniatis, Thomas H. Lee Professor of Molecular and Cellular Biology  
Andrew P. McMahon, Frank B. Baird, Jr. Professor of Science  
Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology  
Douglas A. Melton, Thomas Dudley Cabot Professor of the Natural Sciences and Chair of the Life Sciences Council  
Matthew Meselson, Thomas Dudley Cabot Professor of the Natural Sciences  
Matthew Michael, Associate Professor of Molecular and Cellular Biology  
Venkatesh N. Murthy, Morris Kahn Associate Professor of Molecular and Cellular Biology  
Axel Nohturfft, Assistant Professor of Molecular and Cellular Biology  
Erin K. O'Shea, Professor of Molecular and Cellular Biology  
Joshua Sanes, Professor of Molecular and Cellular Biology  
Vicki L. Sato, Visiting Lecturer on Molecular and Cellular Biology  
Alexander F. Schier, Professor of Molecular and Cellular Biology  
Jack L. Strominger, Higgins Professor of Biochemistry  
Alain Viel, Senior Lecturer on Molecular and Cellular Biology

***Associate Members of the Department of Molecular and Cellular Biology***

Stephen C. Blacklow, Associate Professor of Pathology (*Medical School*)  
Hidde Ploegh, Edward Mallinckrodt Jr. Professor of Immunopathology (*Medical School*) and Visiting Professor of Molecular and Cellular Biology (*FAS*)  
Stuart L. Schreiber, Morris Loeb Professor of Chemistry  
Gregory L. Verdine, Harvard College Professor and Erving Professor of Chemistry

***Faculty of the Department of Organismic and Evolutionary Biology***

Andrew A. Biewener, Charles P. Lyman Professor of Biology (*Chair*)  
Colleen M. Cavanaugh, Edward C. Jeffrey Professor of Biology  
Charles C. Davis, Assistant Professor of Organismic and Evolutionary Biology  
Kathleen Donohue, Associate Professor of Biology  
Jacques Dumais, Assistant Professor of Organismic and Evolutionary Biology  
Scott V. Edwards, Professor of Organismic and Evolutionary Biology and Alexander Agassiz Professor of Zoology  
Brian D. Farrell, Professor of Biology  
David R. Foster, Senior Lecturer on Biology  
Peter R. Girguis, Assistant Professor of Organismic and Evolutionary Biology



Gonzalo Giribet, Associate Professor of Biology  
David A. Haig, George Putnam Professor of Organismic and Evolutionary Biology (*Head Tutor, Biology*)  
James Hanken, Professor of Biology and Alexander Agassiz Professor of Zoology  
Daniel L. Hartl, Higgins Professor of Biology  
N. Michele Holbrook, Charles Bullard Professor of Forestry  
Farish A. Jenkins, Jr., Professor of Biology and Alexander Agassiz Professor of Zoology (*FAS*) and Professor of Anatomy in the Harvard-MIT Division of Health Sciences and Technology (*Medical School*)  
Andrew H. Knoll, Fisher Professor of Natural History and Professor of Earth and Planetary Sciences  
Elena M. Kramer, John L. Loeb Associate Professor of the Natural Sciences  
George V. Lauder, Professor of Biology  
Karel F. Liem, Henry Bryant Bigelow Professor of Ichthyology (*on leave spring term*)  
David Lohman, Lecturer on Organismic and Evolutionary Biology, Research Assistant in Organismic and Evolutionary Biology, Post Doctoral Fellow in Organismic and Evolutionary Biology  
Jonathan Losos, Visiting Professor of Organismic and Evolutionary Biology (*Washington University, St. Louis*)  
Charles R. Marshall, Professor of Biology and of Geology (*on leave fall term*)  
Christopher Marx, Assistant Professor of Organismic and Evolutionary Biology  
James J. McCarthy, Professor of Biological Oceanography  
Paul R. Moorcroft, Associate Professor of Biology  
Martin A. Nowak, Professor of Mathematics and of Biology  
Donald H. Pfister, Asa Gray Professor of Systematic Botany (*on leave spring term*)  
Naomi E. Pierce, Sidney A. and John H. Hessel Professor of Biology (*on leave 2005-06*)  
Anne E. Pringle, Assistant Professor of Organismic and Evolutionary Biology  
John R. Wakeley, Professor of Organismic and Evolutionary Biology  
Robert M. Woollacott, Professor of Biology

***Other Faculty Offering Instruction in Biological Sciences***

Christophe O. Benoist, Professor of Medicine (*Medical School*)  
William H. Bossert, David B. Arnold, Jr. Professor of Science  
Daniel Branton, Higgins Professor of Biology, *Emeritus*  
Lewis C. Cantley, Professor of Medicine and Professor of Systems Biology (*Medical School*)  
Charles A. Czeisler, Frank Baldino, Jr., PhD, Professor of Sleep Medicine (*Medical School*)  
Mark C. Fishman, Professor of Medicine (*Medical School*)  
Walter Fontana, Professor of Systems Biology (*Medical School*)  
Walter Gilbert, Carl M. Loeb University Professor, *Emeritus*  
Michael E. Greenberg, Professor of Neurology (*Medical School*)  
Jeremy M. Gunawardena, Senior Lecturer on Systems Biology (*Medical School*)  
Daniel E. Kahne, Professor of Chemistry and Chemical Biology (*FAS*) and Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Marc W. Kirschner, Carl W. Walter Professor of Systems Biology (*Medical School*)  
Arthur L. Lage, Associate Professor of Surgery (*Medical School*)



Daniel E. Lieberman, Professor of Anthropology  
David R. Liu, Professor of Chemistry and Chemical Biology  
Gavin MacBeath, Assistant Professor of Chemistry and Chemical Biology  
Diane J. Mathis, Professor of Medicine (*Medical School*)  
Ralph Mitchell, Gordon McKay Professor of Applied Biology  
Maryellen Ruvolo, Professor of Anthropology (*on leave fall term*)  
Aravinthan D. T. Samuel, Assistant Professor of Physics  
Michael J. Sandel, Anne T. and Robert M. Bass Professor of Government  
Jack Szostak, Professor of Genetics (*Medical School*)  
Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

The courses designated Life Sciences are jointly organized by the departments of the Life Sciences Council. The courses designated Biological Sciences are jointly organized by the departments of Molecular and Cellular Biology and Organismic and Evolutionary Biology. The courses designated as MCB are the responsibility of the department of Molecular and Cellular Biology. The courses designated OEB are the responsibility of the department of Organismic and Evolutionary Biology. Additional information on OEB faculty and courses may be found on the department's website: [www.oeb.harvard.edu](http://www.oeb.harvard.edu).

The Co-Head Tutors for the Biochemical Sciences concentration are Rachelle Gaudet and Richard M. Losick. The Head Tutor for the Biology concentration is David Haig.

## ***Life Sciences***

### **Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology**

Catalog Number: 2137

*David R. Liu and Robert A. Lue (fall term); Daniel E. Kahne, Erin K. O'Shea, and Andrew W. Murray (spring term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 9:30–11; Spring: Tu., Th., 10–11:30, and three hours of laboratory/discussion weekly. EXAM GROUP: Fall: 11, 12; Spring: 12, 13*

What are the fundamental features of living systems? What are the molecules that impart these features, and how do their chemical properties explain their biological roles? The answers to these questions form the basis for an understanding of the molecules of life, the cell, diseases, and medicines. In contrast with a traditional presentation of relevant scientific disciplines in separate courses, the above concepts are examined through an integrated presentation of chemistry, molecular biology, biochemistry, and cell biology framed within central problems such as the biology of HIV and cancer.

*Note:* This course, in combination with Life Sciences 1b, constitutes an integrated introduction to the Life Sciences. When taken for a letter grade, Life Sciences 1a meets the Core area requirement for Science A.

### **Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution**

Catalog Number: 2159



*Daniel L. Hartl and Maryellen Ruvolo*

*Half course (spring term). M., W., F., at 12, and three hours of laboratory/discussion weekly.*

**EXAM GROUP: 5**

Why is there so much variation among individuals? Why are species so different? The biological variation that we see reflects differences among genes and genomes: how genetic information is transmitted, how it functions, how it mutates from one form to another, how it interacts with the environment, and how it changes through time. These and related issues are examined in depth with special emphasis on complex traits whose expression is determined by a complex interplay between genes and environment.

*Note:* May not be taken for credit if Biological Sciences 50 has already been taken. May be taken concurrently with Life Sciences 1a. This course, in combination with LS 1a, constitutes an integrated introduction to the Life Sciences. When taken for a letter grade, LS 1b meets the Core area requirement for Science B.

*Prerequisite:* Life Sciences 1a or permission of the instructor.

## ***Biological Sciences***

### ***Primarily for Undergraduates***

#### **Biological Sciences 50. Genetics and Genomics**

Catalog Number: 9370

*William D. Fixsen*

*Half course (fall term). M., W., F., at 12, and three hours of laboratory/discussion weekly.*

**EXAM GROUP: 5**

Analysis of genes and genomes with emphasis on function, transmission, mutation, and evolution, with examples from animals, plants, bacteria, and fungi. Discusses classical and current methods of gene and genome analysis, including genetic, molecular, quantitative, and bioinformatic approaches.

*Note:* Lectures and weekly laboratory/discussion section. This course, when taken for a letter grade, meets the Core area requirement for Science B.

#### **Biological Sciences 51. Integrative Biology of Organisms**

Catalog Number: 1922

*Brian D. Farrell, James Hanken, and N. Michele Holbrook*

*Half course (fall term). M., W., F., at 12, and three hours of laboratory weekly. EXAM GROUP: 5*

An integrative and functional approach to plant and animal biology in an evolutionary context, emphasizing common attributes of whole organisms and their solutions to problems imposed by the physical environment. Topics to be covered include development and organization of body plans, gas exchange, transport and excretion, information processing, support and locomotion, and the acquisition of energy sources.

*Note:* Knowledge of introductory molecular, cellular biology, and genetics is recommended. This course, when taken for a letter grade, meets the Core area requirement for Science B.

#### **Biological Sciences 52. Introductory Molecular Biology**

Catalog Number: 1938



*Vicki L. Cameron (Ithaca College)*

*Half course (fall term). M., W., F., at 10, and a weekly laboratory/discussion session. EXAM GROUP: 3*

An integrated introduction to the basic principles of molecular biology. Topics covered: the biochemistry and molecular biology of nucleic acids; the Central Dogma; DNA, RNA, and protein synthesis; mutation and repair; recombination and transposition; the genetic code; the turning on and off of genes; RNA, ribozymes and splicing; development.

*Note:* Chemistry 17 may be taken concurrently. This course, when taken for a letter grade, meets the Core area requirement for Science B.

*Prerequisite:* Chemistry 17 or 20.

### **Biological Sciences 53. Evolutionary Biology**

Catalog Number: 3342

*Kathleen Donohue*

*Half course (spring term). Tu., Th., 1–2:30 and a weekly three-hour lab. EXAM GROUP: 15, 16*

This course covers basic macro-and micro-evolutionary analysis, with an emphasis on how to approach the study of evolution from a population perspective. Topics include phylogenetics and biogeography, natural and sexual selection, life-history evolution, speciation, and coevolution.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science B.

*Prerequisite:* BS 50 or permission of instructor.

### **Biological Sciences 54. Introductory Cell Biology**

Catalog Number: 0801

*Robert A. Lue and Raymond L. Erikson*

*Half course (spring term). M., W., F., at 10, and one laboratory/discussion session each week.*

*EXAM GROUP: 3*

An integrated introduction to the structure, function, and interactions of cells, with an emphasis on their molecular composition and dynamics. Topics covered include: membrane structure and transport; receptors and channels; protein targeting; cytoskeleton; cell cycle control; signal transduction; programmed cell death; cell adhesion, and differentiation.

*Note:* Laboratory and discussion sessions focus on problem-solving and evaluation of data. A series of linked laboratory exercises provides exposure to several techniques commonly used in cell biology. This course, when taken for a letter grade, meets the Core area requirement for Science B.

*Prerequisite:* Chemistry 17 or 20.

### **Biological Sciences 55. Ecology: Populations, Communities, and Ecosystems**

Catalog Number: 3365

*Paul R. Moorcroft*

*Half course (spring term). M., W., F., at 10, weekly discussion section, and two field trips on Saturday and/or Sunday. EXAM GROUP: 3*

Relationships of organisms to their environment at the individual, population, and community level. Topics in pure and applied ecology including adaptations to physical environment, competition, concept of the niche, population dynamics, predator-prey interactions, herbivore effects, community ecology, ecosystem structure, stability and function, and resource





management.

*Prerequisite:* Mathematics 1 and prior biology experience.

### **Biological Sciences 56. Biochemistry and Physical Properties of Macromolecules**

Catalog Number: 5424

*Guido Guidotti, Rachelle Gaudet, David Jeruzalmi, and Nancy Kleckner*

*Half course (spring term). M., W., F., at 9, and a weekly section to be arranged. EXAM GROUP: 2*

An introduction to the structure and function of macromolecules from the perspective of their physical properties. Topics include protein and nucleic acid structure; enzyme kinetics and mechanisms, with examples from intermediary metabolism; spectroscopic analysis; chemical equilibria and thermodynamic properties; behavior of macromolecules in solution, including random walks; macromolecular mechanics.

*Prerequisite:* BS 52 and BS 54 are recommended but not required; Chemistry 10 or equivalent; Chemistry 27 or Chemistry 30; Physics 11 (may be taken concurrently); Math 21a; Math 21b is recommended but not required.

### **Biological Sciences 57. Animal Behavior**

Catalog Number: 2539

*David Lohman*

*Half course (fall term). Tu., Th., at 10; Film screening W., at 7:30 pm; ninety minutes of discussion section weekly. EXAM GROUP: 12*

A review of the behavior of animals under natural conditions, with emphasis on both mechanistic and evolutionary approaches. Topics include classical ethology; behavioral endocrinology; behavioral genetics; learning and memory; communication; orientation, migration and biological rhythms; optimal foraging; evolutionary stable strategies; sexual selection; parental investment and mating systems; selfishness, altruism, and reciprocity; and sociality in vertebrates and invertebrates.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science B.

### **Biological Sciences 60. Ethics, Biotechnology, and the Future of Human Nature**

Catalog Number: 2164

*Douglas A. Melton and Michael J. Sandel*

*Half course (spring term). M., 2–4 and a weekly section to be arranged. EXAM GROUP: 7, 8*

Explores the moral, political, and scientific implications of new developments in biotechnology. Does science give us the power to alter human nature? If so, how should we exercise this power? The course examines the science and ethics of stem cell research, human cloning, sex selection, genetic engineering, eugenics, genetic discrimination, and human-animal hybrids. Meets jointly with Government 1093. Readings will be drawn from literature in the areas of biology, philosophy, and public policy.

*Note:* May not be taken concurrently with Gov 1093. The course is open to both science and non-science concentrators.

### **Biological Sciences 80. Behavioral Neuroscience**

Catalog Number: 6052

*Joshua Sanes and Jeff Lichtman*





*Half course (spring term). Tu., Th., 10–11:30, and a 90-minute section meeting to be arranged.*

**EXAM GROUP: 12, 13**

An introduction to the organization and function of the nervous system and its role in behavior. The course covers the cells that comprise the nervous system, the electrical and chemical signals they use to process and transmit information, the ways in which neurons form circuits that underlie behavior, and the neural mechanisms of perception, movement control, learning, memory, language and emotion.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science B.

### ***Biochemical Sciences Concentration Tutorials***

#### **\*Biochemical Sciences 91r. Introduction to Research**

Catalog Number: 6083

*Rachelle Gaudet and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Laboratory research in topics related to the Biochemical Sciences concentration under the direction of, or approved by, members of the Board of Tutors in Biochemical Sciences. A paper must be submitted to the laboratory sponsor and to the Biochemical Sciences Tutorial Office for review by the Course Director and members of the Board of Tutors.

*Note:* Limited to Biochemical Sciences concentrators; written permission of both the tutor and laboratory sponsor must be submitted to the Biochemical Sciences Tutorial Office prior to enrolling in the course. This introductory research course is intended to prepare students for Biochemical Sciences 99, and may ordinarily be repeated no more than once.

#### **\*Biochemical Sciences 99. Laboratory Research for Honors Thesis**

Catalog Number: 6670

*Rachelle Gaudet and members of the Department*

*Full course (indivisible). Hours to be arranged.*

For honors candidates writing a thesis in Biochemical Sciences. Indivisible for students enrolling in the fall term. Students intending to enroll in the fall are required to submit a written proposal to the Head Tutor. Students may enter the course at midyear only with the permission of the Head Tutor. The thesis proposal must be approved by the Head Tutor prior to enrolling in Biochemical Sciences 99.

### ***Biology Concentration Tutorials***

The Biology 95hf Program is directed by the Head Tutor in Biology, Professor David A. Haig. However, the tutorial seminars are taught by post-doctoral fellows and medical school faculty. Students should feel free to get in touch with the tutorial instructors directly—their names, phone numbers and e-mail addresses, as well as tutorial seminar course descriptions, are posted on the Biology website: <http://biology.harvard.edu>. Please consult the Biology website for dates and times of first meetings.

#### **\*Biology 95hfa. Biology to Die For: Apoptosis in Health and Disease**

Catalog Number: 2052

*David A. Haig and members of the Department*



*Half course (throughout the year). Tu., 7–9 p.m. EXAM GROUP: 18*

Every animal cell has the capacity to commit genetically programmed suicide, or apoptosis. The proper regulation and execution of apoptosis are essential to nearly all aspects of physiology and dysregulated cell death contributes to diseases as diverse as cancer, autoimmunity, infection and neurodegeneration. This student-directed, interactive discussion seminar explores the biology of apoptosis in health and disease. Specifically, we will examine various contemporary approaches used to study apoptosis and the diseases caused by its dysregulation.

**\*Biology 95hfb. The Science of Exercise and Human Performance**

Catalog Number: 2607

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

What happens when people exercise and become more fit? What happens when we stop our training programs? This seminar will discuss the scientific evidence and research that describes the physiological changes associated with exercise training. Human performance and the cardiovascular respiratory and muscular systems will be the focus of this seminar.

**\*Biology 95hfc. On the Origin of Species: A Genomics Approach**

Catalog Number: 2935

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

Understanding how species are formed is one of the most fundamental problems in evolutionary biology. In this seminar, we will review historical and current developments in the genetics of speciation, paying particular attention to recent advancements from the genomics field. Students will learn basic bioinformatics skills using resources from the Computational Biology group at Harvard's Center for Genomics Research.

*Note:* A field trip to sample populations and species is planned in the second term.

**\*Biology 95hfd. Problem Solving in Neuroscience: An Interactive Case-Based Online Network (ICON)**

Catalog Number: 3437

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

The ICON tutorial facilitates hypothesis-driven decision-making and collaborative team management to enhance the integration of information, and to encourage faculty-student partnerships in the learning of neuroscience. ICON is real-time simulation using online learning modules that permits students to communicate directly with faculty, specialists from different disciplines, and with the “patient” in difficult neuroscience cases. By emphasizing this student-centered process of learning, ICON can yield a new interdisciplinary competency that shapes the way the student thinks.

**\*Biology 95hfe. How Genes, Neural Systems, and Activity Shape Behavior**

Catalog Number: 4021

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

This course will cover the relationship between genes and behavior through neurogenetic



research on *Drosophila* and its many neurobehavioral mutants. The basics of *Drosophila* biology will be reviewed followed by an analysis of tools available to manipulate and visualize neuronal function. Through a detailed discussion of scientific papers, a wide number of innate and learned behaviors will be explored.

**\*Biology 95hff. Games Parasites Play: The Cellular and Molecular Biology of Host/Parasite Interactions**

Catalog Number: 5745

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

This class examines the biology of globally important parasites. Students explore how parasites infect their hosts; modify their environment and cause disease. We consider parasite life history, distribution, form and structure. Topics covered include the molecular mechanisms of infection and immunity, parasite survival strategies, vector biology, drug resistance, vaccines and the economics and public health impact of parasitic disease. Each class centers on interactive discussions and an examination of the primary scientific literature.

**\*Biology 95hfg. Cape Cod and Islands: Historical Ecology and Conservation**

Catalog Number: 4576

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

Coastal New England, including Cape Cod and the Islands, is a region of fascinating ecosystems and critical conservation issues. This course exposes students to ecology and conservation biology by focusing on this region's environmental history, modern ecosystems, and conservation issues. In particular, we will explore its geological setting, archaeology, land-use history, vegetation patterns, invasive species, conservation strategies, and future changes.

**\*Biology 95hfh. Small Goes Big: RNAi, miRNAs, and the Small RNA Revolution**

Catalog Number: 4969

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

From RNA interference targeting every gene in the genome to microRNAs controlling cell differentiation to small RNAs directing the formation of heterochromatin, the world of small RNAs is revolutionizing our understanding of biology. We will delve into the literature to explore how small RNAs were discovered, their diverse roles in biology, research and human health and where this revolution is taking us next.

**\*Biology 95hfi. Eye Can't Hear You: Blindness and Deafness in Society**

Catalog Number: 9859

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

This seminar presents the ear and retina as model systems to investigate neural degeneration and regeneration. We will examine different mechanisms by which partial restoration of these sensory systems may occur through the use of stem cells. We will investigate how intracellular and extracellular signals are necessary to differentiate a functional cell. Clinical treatments for



deafness and blindness will be covered. Critical reading of the primary literature will be emphasized.

**\*Biology 95hfk. Mechanisms of Neurological Disease**

Catalog Number: 7431

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

Advances in molecular and cellular biology have revealed similar basic mechanisms of brain cell death in a wide range of disorders (e.g. Alzheimer's, Parkinson's, stroke etc). These pathways include excitotoxicity, oxidative stress, and apoptosis. This seminar examines (1) the molecular mechanisms of cell death, (2) the evidence that implicates specific pathways in specific disorders, and (3) rational therapeutic targets for disease.

**\*Biology 95hfl. Can't Live Together, Can't Live Apart: The Dynamics of Parasitic and Mutualistic Endosymbiosis**

Catalog Number: 1649

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

Endosymbiotic life is a bizarre but ubiquitous phenomenon of evolutionary, ecological and medical importance. We will consider the differences and similarities between harmful (malaria, TB, plant disease) and beneficial (reef corals, lichens, mycorrhizae) symbioses, asking: How do endosymbioses persist in the face of immune defenses? What makes a symbiont harmful or beneficial? How do parasitism and mutualism affect evolution?

**\*Biology 95hfm. The Mammalian Retina: Anatomy, Function, and Diseases**

Catalog Number: 9329

*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

In this tutorial we will focus on current research papers on the mammalian retina. Topics covered include: how the retina is studied; evolution of eyes and photoregiments; microanatomy and physiology of retinal neurons; and diseases of the retina.

**\*Biology 95hfn. From Wound Healing to Tumor Metastasis: Cell Migration in Physiology and Disease**

Catalog Number: 8663

*David A. Haig and members of the Department*

*Half course (throughout the year). W., 7–9 p.m.*

Migration is important for nearly all cells, from simple bacteria to highly specialized neurons and neutrophils. In humans, cell migration is central to such processes as tissue development and wound healing; misregulation of cell migration contributes to cancer, heart disease, and mental retardation. This discussion-based student directed seminar uses analysis of primary scientific literature to explore the mechanisms controlling cell migration in normal physiology and disease and the diverse experimental approaches employed to study this phenomenon.

**\*Biology 95hfh. Conservation, Nature, and Biodiversity**

Catalog Number: 7025



*David A. Haig and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

Until the 1980s, conservation biology focused on “nature.” Since the coinage of the term “biodiversity” the focus has shifted to the latter. Is there a substantive difference between these terms, and is it scientific, sociological, or both?

*Note:* Three field trips: Sept. 23–25 and Oct. 6–10 in New England; Spring Break abroad.

## ***Biology Supervised Reading and Research Courses***

### **\*Biology 91r. Supervised Reading**

Catalog Number: 2817

*David A. Haig and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading on topics not covered by regular courses. For Biology concentrators, work may be supervised by faculty in other departments, provided it is co-sponsored by a Biology faculty member. For nonconcentrators, work must be directed by a Biology faculty member. Students must submit a registration request to the Biology Undergraduate Office before enrollment.

*Note:* Cannot be repeated for concentration credit. Students must take Biology 91r and 99r with different directors.

*Prerequisite:* Four terms of biology.

### **\*Biology 99r (formerly \*Biology 98r, 99ar and 99b). Supervised Research**

Catalog Number: 8616

*David A. Haig and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

This course is taken to obtain credit for independent research, including research undertaken for a senior thesis. Work should be directed by a member of MCB, OEB, or an affiliate of the Biology concentration. Other research sponsors must be approved by the Head Tutor and require an MCB or OEB co-sponsor. All students must submit registration materials for Biology 99r at the time of enrollment.

*Note:* Laboratory safety session required.

## ***For Undergraduates and Graduates***

### **MCB 100. Experimental Molecular and Cellular Biology**

Catalog Number: 2122 Enrollment: Limited to 18.

*Alain Viel and members of the Department*

*Half course (fall term; repeated spring term). W., 3–5. EXAM GROUP: 8, 9*

A laboratory course that immerses students in a dynamic project-based research environment. Participate in experimental projects directly linked with ongoing faculty research covering a broad range of methodologies in microbiology, molecular and cellular biology, and biochemistry. In a highly collaborative atmosphere, students form a fully-functional research group based on the sharing of ideas and progress reports between projects. Not restricted to biochemical and biology concentrators.

*Note:* First Meeting: Wednesday, February 1, 3–5, in Bio Labs 1068. Aside from a weekly 2-



hour meeting, students determine their own research schedule and have access to the teaching laboratory throughout the week. Open to sophomores, juniors, and seniors, and suitable for students either with or without extensive laboratory experience.

*Prerequisite:* BS 50 or permission of the instructor.

### **MCB 105. Systems Neuroscience**

Catalog Number: 0998

*Florian Engert*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Activity dependent modulation of neuronal connections will be explored in the context of learning, memory, and development of the nervous system. Special emphasis is placed on conditioning in invertebrates and mammals, processing of information in the mammalian hippocampus and visual system, and the activity dependent development of neural networks in culture and in vivo.

*Prerequisite:* BS 80.

### **MCB 111 (formerly MCB 211). Mathematics in Biology**

Catalog Number: 6444

*Markus Meister*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Develops the mathematics needed for quantitative understanding of biological phenomena including data analysis, simple models, and framing quantitative questions. Topics include: probability, transforms and linear algebra, and dynamical systems, each motivated by current biological research.

*Note:* Intended for biology graduate students who do not have strong quantitative backgrounds.

*Prerequisite:* Calculus at the level of Mathematics 1b. Some previous exposure to statistics and linear algebra would be helpful.

### **MCB 115. Cellular Basis of Neuronal Function**

Catalog Number: 8703 Enrollment: Limited to 25.

*Venkatesh N. Murthy*

*Half course (fall term). W., F., 2–3:30. EXAM GROUP: 7, 8*

Cellular processes involved in the function of neurons will be explored, with emphasis on biophysical and cell biological approaches. Topics include excitable membranes, intracellular membrane trafficking, cytoskeletal dynamics, synaptic transmission, dendritic integration, and synaptic plasticity.

### **MCB 117. Experimental Neuroscience**

Catalog Number: 3175 Enrollment: Limited to 16.

*Markus Meister and Members of the Faculty*

*Half course (fall term). Tu., Th., 2–5. EXAM GROUP: 16, 17*

An inquiry-based approach to neuroscience that uses state of the art technology to study the development and function of the nervous system. Topics include neural development, growth cone behavior, properties of voltage gated channels, systems neurobiology, and psychophysics. Experimental approaches include immunohistochemistry, molecular genetics, time lapse video-enhanced microscopy, gene expression of channels, whole cell voltage clamp, and extracellular





recording.

*Note:* Primarily for upper-level undergraduate and graduate students; background in biochemistry or physics suggested.

*Prerequisite:* BS 80.

### **\*MCB 118. Developmental Biology**

Catalog Number: 0749

*Andrew P. McMahon*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

A comprehensive lecture course in developmental biology. Principles and mechanisms of development analyzed using molecular, cellular, and genetic dissection of predominantly animal models will focus on events that underlie the molding of the body plan of an embryo, moving from simple to complex, generating the form and function of the adult. The role of similar mechanisms in regeneration and repair will be discussed.

*Prerequisite:* BS 52 and BS 54, or permission of the instructor.

### **MCB 120. Cell Cycle Control and Genome Stability**

Catalog Number: 3069 Enrollment: Limited to 20.

*Matthew Michael*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Covers the molecular biology and biochemistry of the cell cycle, with an emphasis on mechanisms that maintain genome stability. Explores how DNA replication, DNA repair, and cell cycle checkpoint pathways are integrated so that the repair of damaged DNA is coordinated with chromosomal duplication and cell cycle progression. Other aspects of the cell cycle control, such as entrance into and progression through mitosis, also covered. Consists of lectures, and readings from the primary literature.

*Prerequisite:* BS 52 and 54.

### **MCB 123. Mammalian Cell Physiology**

Catalog Number: 4920 Enrollment: Limited to 25.

*Axel Nohturfft*

*Half course (spring term). W., F., 10–11:30. EXAM GROUP: 3, 4*

Explores the question of how cells maintain stability in the face of external change and internal turnover. Introduces the concepts of homeostasis, dynamic equilibrium, and feedback control. Selected topics are drawn from protein biochemistry, lipid metabolism, membrane biology, and mineral balance. Lectures and discussions of scientific papers.

*Prerequisite:* BS 52 and BS 54 or permission of the instructor.

### **MCB 125. Stem Cells and Cloning**

Catalog Number: 5481

*Douglas A. Melton*

*Half course (fall term). M., W., 4–5:30; M., W., 4–5:30. EXAM GROUP: 9*

An advanced course in developmental biology. Embryonic and adult stem cells in different organisms will be examined in terms of their molecular, cellular and potential therapeutic properties. Genetic reprogramming by nuclear transfer and cloning animals will be critically evaluated. Current findings will be considered in a historical context; ethical and political





considerations will not be ignored.

*Prerequisite:* BS 52 and BS 54, or permission of the instructor. MCB 118 is an ideal preparation.

**[\*MCB 129. Molecular Genetics of Neural Development and Behavior]**

Catalog Number: 8956 Enrollment: Limited to 20.

*Samuel M. Kunes*

*Half course (fall term). Hours to be arranged.*

A lecture and discussion course on the development of the nervous system and the relationship between genes and behavior. Topics include neural differentiation and cell identity, cell birth and death, axon guidance and synaptic specificity, behavioral genetics. Emphasis on critical evaluation of readings from the primary literature, experimental design and scientific writing.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Permission of the instructor.

**MCB 140. Introduction to Biophysics**

Catalog Number: 9736 Enrollment: Limited to 40.

*Howard C. Berg and Aravinthan D. T. Samuel*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to the biology and physics of stochastic processes that affect the behavior of cells, biopolymers, and biological motors. Elements of probability and statistics, entropic elasticity, the random walk, diffusion, sedimentation, and electrophoresis. Applications to sensory physiology, cell motility, stretching and twisting of DNA, and the motion of motors along biopolymers.

*Note:* Given in alternate years. Lectures, problem sets, discussions. May not be taken for credit by students who have taken Physics 140.

*Prerequisite:* Mathematics at the level of 21a, Physics 15a/15b or Physics 11a/11b or permission of the instructor. Some familiarity with elementary statistical mechanics helpful.

**MCB 141. Molecular and Developmental Neurobiology**

Catalog Number: 5205

*Catherine Dulac*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Molecular basis of sensory perception and formation of related neuronal networks during vertebrate development. Topics will include: mechanisms of sensory discrimination at the level of receptor molecules and receptor cells; coding of sensory information by the brain; establishment of appropriate connections in the developing brain. Molecular and genetic approaches to memory and behavior will be discussed.

*Prerequisite:* BS 52 and BS 80.

**\*MCB 142. Major Advances in Classical and Molecular Genetics**

Catalog Number: 7948 Enrollment: Limited to 20.

*Matthew Meselson*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Critical reading and group discussion of selected papers in classical and molecular genetics.

Participation in class discussion of readings is essential. Substantial essay on a mutually agreed



upon topic is due at the end of reading period.

*Prerequisite:* BS 50 or equivalent.

### **MCB 150. Developmental Genetics and Genomics**

Catalog Number: 5703

*Craig P. Hunter*

*Half course (fall term). Hours to be arranged.*

Our goal is for students to gain a fundamental understanding of the genetic control of development in four genetically accessible animal models; the nematode *C. elegans*, the fruit fly *Drosophila melanogaster*, the zebra fish *Danio rio*, and the mouse *Mus musculus*. A focus of the course is to compare and contrast genetic analysis of and the genetic control of developmental processes and mechanisms in these four organisms. The course consists of lectures, student presentations, and written assignments.

*Prerequisite:* BS 50, 52, 54, their equivalents or permission of instructor.

### **\*MCB 155. Molecular Mechanisms of Gene Control**

Catalog Number: 6230

*Tom Maniatis*

*Half course (fall term). Tu., Th., 4–6. EXAM GROUP: 18*

An advanced course on the control of gene regulation. Topics include: mechanisms of gene regulation at the level of transcription, chromatin structure, DNA methylation, RNA processing, mRNA localization, and protein synthesis and degradation. The course is taught through weekly lectures and readings from the current literature. Topics covered in lectures and the reading assignments are discussed in sections. Students are required to critically evaluate and discuss recent papers in sections. Two exams.

*Prerequisite:* BS 52 and 54 (or equivalent), and permission of instructor.

### **MCB 156. Structural Biology of the Flow of Information in the Cell**

Catalog Number: 8543

*Rachelle Gaudet and David Jeruzalmi*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

A journey that follows the path taken by an extra-cellular signal as it reaches a cell, traverses the plasma membrane, navigates the cytoplasm, and finally manifests its effect upon the genome. Through the reading and discussion of primary research literature, the course highlights how structural biology has helped develop a detailed picture of each step in the pathway. The interplay between cellular and network biology and structural biology is also emphasized.

*Prerequisite:* Introductory physical chemistry (e.g. BS 56 or Chem 60).

### **MCB 169. Molecular and Cellular Immunology**

Catalog Number: 2518

*Hidde Ploegh*

*Half course (fall term). Tu., Th., 10–11:30, and a 90-minute discussion section weekly. EXAM GROUP: 12, 13*

Basic elements of the immune system. Molecular biology of antigen recognition structures on B and T lymphocytes. Cellular and genetic basis of immunity. Regulation and development of the



immune system.

*Prerequisite:* BS 50 and 52. Genetics and cell biology strongly recommended.

### **[MCB 173. Optical Imaging in the Biological Sciences]**

Catalog Number: 3836 Enrollment: Limited to 30.

*Jeff Lichtman*

*Half course (spring term). Hours to be arranged.*

The optical microscope has undergone a radical transformation. Recent innovations in lasers, chemistry, molecular biology, detectors, computation and optics have propelled the microscope to the cutting edge of modern biology. These complex machines are now the tools of choice for revealing structure and function in biology. This course explores the principles and practice of the “new microscopy.” Topics include the nature of light, fluorescence, image restoration, confocal, 2-photon, structured illumination and other new techniques.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 54 recommended or permission of the instructor.

### **[MCB 176. Biochemistry of Membranes]**

Catalog Number: 3186

*Guido Guidotti*

*Half course (fall term). Hours to be arranged.*

A course on the properties of biological membranes, essential elements for cell individuality, communication between cells, and energy transduction. Topics include : membrane structure; membrane protein synthesis, insertion in the bilayer and targeting; transporters, pumps and channels; electron transport, H<sup>+</sup> gradients and ATP synthesis; membrane receptors, G proteins and signal transduction, and membrane fusion.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 52 and 54.

### **MCB 186. Circadian Biology: From Cellular Oscillators to Sleep Regulation**

Catalog Number: 2854

*J. Woodland Hastings and Charles A. Czeisler (Medical School)*

*Half course (fall term). W., 2–5, and a one-hour discussion section weekly. EXAM GROUP: 7, 8, 9*

Properties, mechanisms, and functional roles of circadian (daily) rhythms in organisms ranging from unicells to mammals. Cellular and molecular components, regulation of gene expression and physiological functions, genetic and biochemical analyses of circadian rhythms, and neurobiology of the mammalian circadian pacemaker. Mathematics and modeling of oscillatory systems and applications to circadian rhythms. Experimental studies of human rhythms, including the sleep-wake cycle and hormone rhythms, with applications to sleep disorders.

*Prerequisite:* BS 50 and 51; BS 80 desirable.

### **MCB 188. Chromosomes**

Catalog Number: 8561

*Nancy Kleckner*

*Half course (spring term). Tu., Th., 2–4. EXAM GROUP: 16, 17*

Chromosome morphogenesis in prokaryotic and eukaryotic organisms. Topics will include



chromosome structure, interactions between chromosomes (sisters and homologs), DNA recombination and repair, topoisomerases, transposable elements and site-specific recombination, epigenetic inheritance. Genetic, cytological, and biochemical approaches will be integrated. Lecture, reading, and discussion of classical and current literature and consideration of future experimental directions.

*Prerequisite:* BS 50, 52, and 54.

### **MCB 190. Biological Networks**

Catalog Number: 2170

*Naama Barkai*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

This course will discuss theoretical concepts and analysis of biological networks. We will discuss gene and protein circuits as computational devices, and approaches for analysis of large networks. The theoretical discussion will be accompanied by examples of well-studied model systems.

*Prerequisite:* BS 52 and 54.

### **MCB 192. Principles of Drug Discovery and Development**

Catalog Number: 2188 Enrollment: Limited to 20.

*Mark C. Fishman (Medical School), Vicki L. Sato, and Gregory L. Verdine*

*Half course (spring term). Tu., Th., 11:30–1, and a 1.5-hour weekly section to be arranged. First Meeting: Th., Feb 2, 11:30–1, 60 Oxford St, Room 330. EXAM GROUP: 13, 14*

How is new medicine created? What steps are taken to go from observed medical need to efficacious treatment with minimal side effects? Case-study based introduction to the process of Drug Discovery co-taught by Harvard faculty and researchers from the Novartis Institutes for BioMedical Research. Topics include: identifying possible drug targets, chemical screening and lead discovery, medicinal chemistry, drug formulation, preclinical safety and clinical trials. Readings and assignments drawn from primary scientific literature and drug study reports.

*Note:* May not be taken concurrently with Chemistry 192. First Meeting: Th., Feb 2, 11:30–1, 60 Oxford St, Room 330.

*Prerequisite:* BS 52 and one year of organic chemistry. BS 54 is recommended.

### **OEB 102 (formerly Biology 102). Structure and Physiology of the Vertebrates**

Catalog Number: 0921

*George V. Lauder and Andrew A. Biewener*

*Half course (fall term). M., W., F., at 9. EXAM GROUP: 2*

Introduction to the relationship between physiology, structure, and function of vertebrates. Lectures concentrate on selected organ systems (musculoskeletal, cardiovascular, respiratory, reproductive, excretory, and digestive) paying particular attention to how they have evolved and diversified within living vertebrate groups in relationship to environmental factors. General principles of structure-function relationship are emphasized. Physiology and morphological dissection labs concentrate on higher vertebrates and are correlated with one another and with the lectures.

*Prerequisite:* BS 50 and 51.



**OEB 104 (formerly Biology 104). Plants and Human Affairs**

Catalog Number: 5281

*Donald H. Pfister*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

An introduction to the uses of plants by humans. Topics include the form, structure and genetics of plants related to their use as sources of food, shelter, fiber, flavors, beverages, drugs, and medicines. Plant structure and reproduction are studied in lecture and laboratory with a particular focus on relationships between the plant's structural, chemical, or physiological attributes and the utility plant.

*Prerequisite:* BS 51 or permission of the instructor.

**[OEB 106 (formerly Biology 106). Plant Development and Differentiation]**

Catalog Number: 4559

*Elena M. Kramer*

*Half course (fall term). Hours to be arranged.*

A comprehensive lecture course on the developmental biology of plants from fertilization through all phases of vegetative and reproductive growth. Material includes both morphological and genetic studies. Although the main focus of the course is angiosperms, examples are drawn from other lineages of land plants as well. Additional topics include control of cell division and elongation, signal transduction, and hormone response.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* OEB 124 (formerly Bio 24) and BS 50 or permission of the instructor.

**[OEB 107 (formerly Biology 107). Evolution of Plant Life in Geologic Time]**

Catalog Number: 1318

*Andrew H. Knoll*

*Half course (spring term). Hours to be arranged.*

Origin, evolution, dispersal, paleoecology, and geologic history of the major groups of the plant kingdom. Laboratory study of representative groups, living and fossil.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 51 or permission of instructor.

**OEB 110 (formerly Biology 110). Biology and Evolution of Invertebrate Animals**

Catalog Number: 7873 Enrollment: Limited to 12.

*Gonzalo Giribet*

*Half course (spring term). Lectures Tu., Th., 10–11:30; laboratory on Wednesdays with hours to be arranged. EXAM GROUP: 12, 13*

Introduction to invertebrate diversity, emphasizing the anatomy, biology and evolutionary relationships of the main animal phyla including sponges, mollusks, annelids and arthropods among others. Special emphasis is placed on understanding the broad diversity of animal forms and their adaptations to different ecosystems and how these phenomena shape animal evolution. Lectures will be complemented with a mandatory weekly lab and a field trip to different areas of outstanding marine diversity in the Bahamas.

*Note:* Field trip to the Bahamas for research during spring break.

*Prerequisite:* BS 51 or BS 53 or EPS 181, or permission of instructor required.



**OEB 114 (formerly Biology 114). Vertebrate Viviparity**

Catalog Number: 4953

*David A. Haig*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Viviparity has evolved many times in vertebrate phylogeny. The course reviews the diversity of parental care in vertebrates and explore the selective forces that have favored the evolution of live-bearing. The evidence for intergenerational conflicts is considered.

**[OEB 118 (formerly Biology 118). Biological Oceanography]**

Catalog Number: 7752

*James J. McCarthy*

*Half course (spring term). Hours to be arranged.*

The ocean as an ecological system. Emphasis on the ecology and physiology of the plankton. Considerable attention to processes and events that demonstrate the complexity of environmental-organismal interactions. Discussion sessions treat special topics such as sampling strategies, plankton demonstrations, and critical analyses of current literature.

*Note:* Expected to be given in 2006–07. For biology and other natural science concentrators.

*Prerequisite:* BS 51 or BS 53, and Chemistry 5 and 7 or Chemistry 10. BS 55 (formerly Bio 19) recommended.

**\*OEB 120 (formerly \*Biology 120). Physiology of Plants**

Catalog Number: 2554

*N. Michele Holbrook*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to the physiology, biochemistry, and development of plants. Topics include photosynthesis, energy balance, transport processes, growth, biomechanics, and reproduction. Emphasis on the physiological basis for structural adaptations of plants in relation to environmental constraints and on mechanisms leading to developmental and physiological integration at the whole-plant level. Laboratory sessions provide an introduction to basic measurement techniques in plant physiology.

**\*OEB 121a (formerly \*Biology 121a). Advanced Structure and Physiology of the Vertebrates**

Catalog Number: 4049

*Andrew A. Biewener, George V. Lauder, and Daniel E. Lieberman*

*Half course (spring term). Hours to be arranged.*

Introduces students to experimental techniques used to investigate the structure and physiology of vertebrates. Each instructor offers research projects that are undertaken in their laboratory (limit 5 students per instructor). Students meet to introduce their project, discuss their work and progress, and to present their final results. An extensive commitment of time in the laboratory is required. Grades are based on the work completed, the oral presentation, and a short research paper.

*Note:* Laboratory safety session required.

*Prerequisite:* OEB 102 and ANTHRO 142 preferred, and permission of instructor.





**\*OEB 121b (formerly \*Biology 121b). Advanced Structure and Physiology of the Vertebrates**

Catalog Number: 4670

*Andrew A. Biewener and George V. Lauder*

*Half course (fall term). Hours to be arranged.*

Students may extend the initial project undertaken in Biology 121a into a thesis research project.

*Note:* Laboratory safety session required.

*Prerequisite:* OEB 121a (formerly Bio 121a) and permission of instructor.

**[OEB 123. Biology of Symbiosis]**

Catalog Number: 0508

*Colleen M. Cavanaugh*

*Half course (spring term). Hours to be arranged.*

An examination of the major aspects of endosymbiosis with emphasis on mutualism, although some parasitic interactions are covered. Topics include origins of the eukaryotic cell, specificity and recognition of partners, distribution and diversity of associations, and coevolution of host and symbiont.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 50 and 51, and BS 52 or equivalent, or permission of instructor.

**OEB 124 (formerly Biology 124). Biology of Plants**

Catalog Number: 1343 Enrollment: Limited to 16.

*Elena M. Kramer and N. Michele Holbrook*

*Half course (spring term). Tu., Th., 10–11:30, one afternoon laboratory per week, plus occasional field trips. EXAM GROUP: 12, 13*

Introduction to the structure, diversity, and physiology of plants with an emphasis on evolutionary relationships and adaptations to life on land. Topics include growth, resource acquisition, interactions with other organisms (i.e., fungi, bacteria, insects), reproduction, and survival in extreme environments. Laboratory sessions provide an overview of plant and diversity and an introduction to basic physiological processes.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science B.

**OEB 125. Molecular Ecology and Evolution**

Catalog Number: 2691

*Scott V. Edwards and guest lecturers*

*Half course (spring term). Tu., Th., 11:30–1 and two hours weekly of computer laboratory.*

*EXAM GROUP: 13, 14*

A survey of empirical applications of DNA technologies to the study of evolutionary, ecological and behavioral processes in natural populations. Topics to be covered will span a variety of hierarchical levels, timescales, and taxonomic groups, and will include the evolution of genes, genomes and proteins; evolution of multigene families and molecular clocks; population genetic and phylogenetic principles of speciation and phylogeography; DNA fingerprinting in forensics and behavioral ecology; evolutionary genetics of disease resistance; and conservation genetics.

*Note:* Weekly computer laboratories will introduce the use of the internet and computational software in DNA sequence alignment and phylogenetic and population genetic analysis.

*Prerequisite:* BS 50 or 52.





**[\*OEB 130 (formerly \*Biology 130). Patterns and Processes in Fish Diversity]**

Catalog Number: 4624

*Karel F. Liem*

*Half course (spring term). Hours to be arranged.*

Fishes inhabit diverse aquatic environments including deep seas, intertidal zones, coral reefs, polar waters, the vast Amazonian basin, and great East African lakes. A single fish species may occupy diverse environments through extraordinary long distance horizontal and vertical migrations. To explore this unparalleled diversity, the course emphasizes bridging traditional academic boundaries with integrative analyses of the biology underlying rapid evolutionary radiations and stasis.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 50 and 51, or permission of instructor.

**\*OEB 139 (formerly Biology 139). Evolution of the Vertebrates**

Catalog Number: 8562

*Farish A. Jenkins, Jr.*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

A survey of the origination and evolution of the major groups of vertebrates, with emphasis on the anatomical and physiological transformations that occurred during the transitions to diverse lineages of fish, amphibians, reptiles, birds, and mammals. The structures and functions exhibited in extant taxa are explored with perspectives from the fossil record.

**[OEB 152 (formerly Biology 152). Population Genetics]**

Catalog Number: 0903

*John R. Wakeley*

*Half course (fall term). Hours to be arranged.*

Introduction to population genetic theory. Covers deterministic and stochastic theory of gene frequencies, and coalescent theory of sample-based statistics. Emphasis on patterns of genetic variation within and between populations, and how these can serve as the basis for inference about mutation, genetic drift, migration, natural selection, and population structure.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 53, calculus, and knowledge of statistics and probability.

**[OEB 155r (formerly Biology 155r). Biology of Insects]**

Catalog Number: 2346 Enrollment: Limited to 15.

*Naomi E. Pierce*

*Half course (fall term). Hours to be arranged.*

An introduction to the major groups of insects. The life history, morphology, physiology, and ecology of the main taxa are examined through a combination of lecture, lab, and field exercises. Topics include the phylogeny of terrestrial arthropods with a review of the extant orders, an analysis of abiotic and biotic factors regulating populations, including water balance, temperature, migration, parasitism, mutualism, sociality, insect/plant interactions, medical entomology, and the use of insects in biological control.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Science B-29 or BS 50, 51, or 53 or equivalent, or permission of instructor.



**OEB 156r (formerly Biology 156). Tropical Insect Systematics**

Catalog Number: 0584

*Brian D. Farrell*

*Half course (spring term). M., W., at 1 and F., 1–4:30. EXAM GROUP: 6, 7, 8, 9*

A lab course on the systematics and diagnosis of the 200 principal families across 26 orders of insects, including acquisition of the skills to perform rapid onsite insect biodiversity assessment and documentation in the field. Learning to identify insects to the family level using microscopes and a teaching collection. Includes a spring break fieldtrip to the Dominican Republic, during which student teams will collect and process insect specimens for database entry onsite, including digital imaging.

*Prerequisite:* BS 51 or 53 or permission of the instructor.

**OEB 157. Global Change Biology**

Catalog Number: 7055

*Paul R. Moorcroft and James J. McCarthy*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines natural and anthropogenic changes in the earth system and their impact on the structure and functioning of terrestrial and oceanic ecosystems. Topics include earth system history, fossil fuel emissions, changing water chemistry, ozone, species extinctions and invasions, and human exploitation of natural resources.

*Prerequisite:* BS 51 or 53 and Mathematics 1A required. BS 55 recommended.

**[OEB 160 (formerly Biology 160). Forest Ecology]**

Catalog Number: 4369

*David R. Foster*

*Half course (fall term). Hours to be arranged.*

Plant community organization, structure, and dynamics focusing primarily on the forest vegetation of northeastern North America. Field studies emphasize the role of natural and anthropogenic disturbance in controlling the pattern of vegetation, methods of vegetation analysis, and historical methods of vegetation reconstruction.

*Note:* Expected to be given in 2006–07. Includes two field trips to the Harvard Forest.

*Prerequisite:* BS 51 or permission of instructor.

**OEB 168r. Life Cycles of Plants**

Catalog Number: 5092

*David A. Haig*

*Half course (spring term). Tu., 2:30–4. EXAM GROUP: 16, 17*

A study of the diversity and evolution of plant life cycles, with an emphasis on interactions between the generations. This year, the course will focus on mosses, liverworts, and hornworts.

**[OEB 174r (formerly Biology 174r). Topics in Behavioral Ecology: Learning and Memory]**

Catalog Number: 5199 Enrollment: Limited to 30.

*Naomi E. Pierce and members of the Department*

*Half course (spring term). Hours to be arranged.*

Current issues in neuroethology, behavior, and behavioral ecology are examined, with topics that change each year. Topics in previous years have included: Evolution of Sex, Evolution of



Cooperation, Evolution of Communication, and Learning and Memory. The course involves invited speakers, discussion of the primary literature, and participation of professors across disciplines. The anticipated topic for 2006–07 is Navigation and Migration.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 57 (formerly Bio 22), BS 80 or Science B-29 or permission of instructor.

### **OEB 181 (formerly Biology 181). Systematics**

Catalog Number: 5459

*Gonzalo Giribet and Scott V. Edwards*

*Half course (fall term). Tu., Th., 10–11:30; laboratory on Wednesdays with hours to be arranged. EXAM GROUP: 12, 13*

Theory and practice of systematics, emphasizing issues associated with homology statements and alignments, methods of tree reconstruction, and hypothesis evaluation. The course combines theoretical considerations, paying especial attention to algorithmic aspects of phylogenetics, with the use of different computer programs for conducting evolutionary and phylogenetic analyses.

*Prerequisite:* BS 53, or permission of instructor required. Familiarity with computers, especially Mac and PC platforms.

### **[OEB 187 (formerly Biology 187). Current Advances in Metazoan Diversity and Evolution]**

Catalog Number: 3220

*Gonzalo Giribet*

*Half course (spring term). Hours to be arranged.*

Current discoveries of new metazoan groups, their relationships to known animals, and the newest hypotheses in metazoan evolution are examined. Background in metazoan diversity and in systematics are recommended. Newly discovered animal groups, their evolutionary significance, and their possible relationships will be presented. Examples will be drawn from various phyla including Gnathostomulida, Loricifera, Cyclophora, Micrognathozoa, and other poorly understood animals. Original literature is discussed, emphasizing the evolution and relationships of the organisms presented in class.

*Note:* Expected to be given in 2006–07.

### **OEB 189. Comparative Cell Morphogenesis**

Catalog Number: 2195

*Jacques Dumais*

*Half course (fall term). M., W., 2:30–4:30. EXAM GROUP: 7, 8, 9*

A survey of the different modes of cellular development in unicellular organisms and in specialized cells within multicellular organisms. Lectures will cover morphogenesis in bacteria, coccolithophores, diatoms, yeasts, fungal hyphae, ciliates, neurons, and red blood cells among others. The emphasis will be on the molecular and biophysical controls of cell shape. The functional significance of cell shape will also be discussed. Laboratories will introduce the students to the organisms studied in class.

*Prerequisite:* BS 54 recommended.

### **[OEB 190. Biology and Diversity of Birds]**

Catalog Number: 3870

*Scott V. Edwards*



*Half course (spring term). Hours to be arranged.*

An introduction to the biology of birds. Covers the fossil record and theories for avian origins, physiology and anatomy, higher-level systematics and field characters of the ~27 orders, speciation processes, nesting and courtship behavior, vocalizations, mating systems and sexual selection, cooperative breeding, demography and conservation. Optional field trip to the Neotropics during spring break. Laboratories will consist of gross anatomy, bird watching excursions in the Cambridge area, field techniques and specimen preparation, and systematic study of avian groups using the collections of the Museum of Comparative Zoology.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 51, BS 53 or permission of the instructor.

### ***Cross-listed Courses***

[\*\*Anthropology 1420 \(formerly Anthropology 142\). Human Anatomy\*\*](#)

[\*\*\[\\*Anthropology 1463 \(formerly \\*Anthropology 163\). Molecular Evolution of the Primates\]\*\*](#)

[\*\*Biophysics 101. Genomics, Computing, Economics, and Society\*\*](#)

[\*\*Mathematics 153. Mathematical Biology-Evolutionary Dynamics\*\*](#)

[\*\*Systems Biology 101 \(formerly \\*MCB 195\). A Systems Approach to Biology\*\*](#)

### ***Primarily for Graduates***

[\*\*Biological Sciences 205. Introduction to Graduate Study in Genetics and Genomics\*\*](#)

Catalog Number: 5759

*Members of the Department*

*Half course (fall term). Tu., 11:30–1, W., 1–2:30, and F., 10–11:30. EXAM GROUP: 3, 4, 6, 7, 13, 14*

Several topics relating to the intersection of genomics with studies of gene expression, gene annotation, population genetics and molecular evolution will be discussed. The term is broken up into blocks, with pairs of faculty from the Genetics and Genomics Predoctoral Training Program leading the discussions of each topic.

*Note:* Primarily for first-year graduate students in the Genetics and Genomics Training Program. For others, permission of the instructor is required.

[\*\*\\*Biology 200r. AB/AM Laboratory Research\*\*](#)

Catalog Number: 3696

*David A. Haig and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Open only to Advanced Standing Biology concentrators doing research as part of a combined AB/AM degree. Work should be directed by a member of MCB, OEB, or an affiliate of the Biology concentration. Other research sponsors must be approved by the Head Tutor and require an MCB or OEB co-sponsor.

*Note:* All students must submit registration materials for Biology 200r at the time of enrollment. Laboratory safety session required.

[\*\*\[MCB 200. Introduction to Graduate Study in Molecular and Cellular Biology\]\*\*](#)

Catalog Number: 7215



*Members of the Department*

*Half course (fall term). Hours to be arranged.*

The goal of the course is to introduce the methods and logic of modern biology as developed through reading and discussion of research papers in neurobiology, developmental biology, and cell biology.

*Note:* Expected to be given in 2006–07. Active participation in critical evaluations and discussions required. Team-taught by faculty. Limited to MCB graduate students.

**MCB 208. Talking about Science**

Catalog Number: 3605 Enrollment: Limited to 30.

*Jeff Lichtman and Michael E. Greenberg (Medical School)*

*Half course (fall term). W., 11:30–1. EXAM GROUP: 4, 5*

Teaches advanced students how to give a good research talk while exposing them to seminal scientific discoveries. Emphasis will be on speaking style, lecture organization, and use of video projection tools.

*Note:* In addition to lecture material from the course head, students will present experiments from Nobel Prize-winning work. The presentations will be critiqued in class by the participants. Open to second year graduate students or by permission of the instructor.

**MCB 210. Interesting Questions in Modern Biology**

Catalog Number: 7962

*Nancy Kleckner, Craig P. Hunter, and Alexander F. Schier*

*Half course (spring term). M., 2–4 and two additional hours to be arranged. EXAM GROUP: 7, 8*

Progress in scientific discovery is often due to the application of imagination and the associated ability to frame the right question. Correspondingly, we will unite faculty and graduate students in the search for interesting questions in the biological sciences.

*Note:* Two course meetings per week: one lecture (one hour) and one section (two hours). Will comprise a series of six two-week modules, each covering a different subject area, and each taught jointly by a different pair of faculty. Intended primarily or exclusively for first-year MCB graduate students.

**[MCB 212. Topics in Biophysics]**

Catalog Number: 3351

*Howard C. Berg*

*Half course (spring term). Hours to be arranged.*

Motility and sensory transduction; chemotaxis in bacteria; flagellar motility; prokaryotic and eukaryotic motor molecules.

*Note:* Expected to be given in 2006–07. Given in alternate years. A term paper and seminar are required.

**MCB 268. Molecular Immunology: Seminar**

Catalog Number: 2196 Enrollment: Limited to 16.

*Jack L. Strominger*

*Half course (spring term). M., Th., 4–6. EXAM GROUP: 9, 18*

One session each week is a lecture on the topics. At the second session, four papers are read from



the current literature; each presented by a student in 20-30 minutes. Course work: reading of papers, seminar presentations, and class participation.

*Prerequisite:* MCB 169 or permission of instructor required for undergraduates only.

**OEB 208r (formerly Biology 208). Issues in Historical Paleobiology: Seminar**

Catalog Number: 1344

*Andrew H. Knoll*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

A seminar focusing on current issues in the history of life. Each year, a single event or time interval is explored.

**OEB 211r (formerly Biology 211r). Form, Function, and Evolution**

Catalog Number: 2056

*Karel F. Liem*

*Half course (fall term). Hours to be arranged.*

Evolutionary mechanisms underlying the diversity in design of living vertebrates. Recent advances of topics selected by faculty and students.

**[OEB 212r (formerly Biology 212r). Advanced Topics in Plant Physiology]**

Catalog Number: 2176

*N. Michele Holbrook*

*Half course (fall term). Hours to be arranged.*

A critical discussion of current research in plant physiology including measurement techniques, modeling, and experimental approaches.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* OEB 120 (formerly Bio 120) or permission of instructor.

**[OEB 221 (formerly Biology 221). Microbial Diversity]**

Catalog Number: 1234

*Colleen M. Cavanaugh*

*Half course (fall term). Hours to be arranged.*

Examines the remarkable diversity of prokaryotes. Physiological, genetic, ecological, and evolutionary characteristics of Bacteria and Archaea divisions are discussed, as well as the relation of phenotype to phylogeny.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 50 and 51, and BS 52 or equivalent, or permission of instructor.

**[OEB 224 (formerly Biology 224). Biology of the Fungi]**

Catalog Number: 1308

*Donald H. Pfister*

*Half course (fall term). Hours to be arranged.*

This intensive course covers the morphology, classification, evolution, and diversity of the fungi, including both parasitic and saprophytic members. Readings and discussion draws from the primary literature. Students apply a variety of techniques to study fungi.

*Note:* Expected to be given in 2006–07. At least one weekend field trip to be arranged.

*Prerequisite:* OEB 113 (formerly Bio 113) or permission of instructor.





**OEB 227 (formerly Biology 227). Molecular Approaches to Environmental Microbiology**

Catalog Number: 4444

*Colleen M. Cavanaugh*

*Half course (spring term). Hours to be arranged.*

Critical review and discussion of current advances in our understanding of biodiversity, community structure, and metabolic activities in Bacteria and Archaea resulting from the application of cellular and molecular approaches in diverse environments

*Prerequisite:* Earth and Planetary Sciences 30 or permission of instructor.

**\*OEB 234 (formerly \*Biology 234). Topics in Marine Biology**

Catalog Number: 4637

*Robert M. Woollacott*

*Half course (spring term). W., 2–5. EXAM GROUP: 7, 8, 9*

Reproduction and dispersal of marine organisms. Human impacts on marine community structure.

*Note:* Weekly class meeting including several laboratories and field trips through course of term.

**\*OEB 251 (formerly \*Biology 251). Introduction to Vertebrate Surgery**

Catalog Number: 2075 Enrollment: Limited to 16.

*Arthur L. Lage (Medical School)*

*Half course (fall term). W., 1–4. EXAM GROUP: 6, 7, 8*

Teaches the basic principles of aseptic surgery with emphasis on practicality. Students learn basic "open" surgery as well as newer high-tech videoscopic minimally invasive technique, obtaining hands-on experience in scrubbing, gowning, and sterile technique while serving as anesthetist and surgeon.

*Note:* Intended for the student interested in the application of surgical technique in higher studies in biology and related disciplines.

*Prerequisite:* Comparative anatomy, OEB 102 (formerly Bio 21), or equivalent course.

**OEB 252 (formerly Biology 252). Coalescent Theory**

Catalog Number: 0118

*John R. Wakeley*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The mathematics and computation of ancestral inference in population genetics. Theory relates observable genetic data to factors of evolution such as mutation, genetic drift, migration, natural selection, and population structure.

*Prerequisite:* OEB 152 (formerly Bio 152) or permission of instructor: calculus and statistics or probability.

**OEB 253r (formerly Biology 253r). Evolutionary Genetics Seminar**

Catalog Number: 8104

*John R. Wakeley*

*Half course (spring term). Hours to be arranged.*

Readings and discussion of primary literature in population and evolutionary genetics.

*Prerequisite:* OEB 152 (formerly Bio 152) or consent of instructor.





**[OEB 254r (formerly OEB 254). Topics in Genomic Imprinting]**

Catalog Number: 9341

*David A. Haig*

*Half course (spring term). Hours to be arranged.*

A seminar course that will discuss evolutionary aspects of genomic imprinting and the related theory of parent-offspring conflict.

*Note:* Expected to be given in 2006–07.

**OEB 255 (formerly Biology 255). Nature and Regulation of Marine Ecosystems**

Catalog Number: 7753

*James J. McCarthy and guest lecturers*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

A presentation of topics that are of current interest in marine ecosystems. Emphasis on identification and quantification of biological and environmental factors important in the regulation of community structure in the intertidal, deep benthic, and planktonic realms.

*Prerequisite:* BS 55 and OEB 118 (formerly Bio 118).

**[OEB 268r (formerly Biology 268r). Topics in Plant Developmental Genetics]**

Catalog Number: 5020

*Elena M. Kramer*

*Half course (fall term). Hours to be arranged.*

This lecture/seminar reviews the literature related to a particular topic plant developmental genetics. Additionally, participants are familiarized with the advantages and pitfalls of molecular techniques, and the process of project design.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* OEB 120 (formerly Bio 120), and either BS 50, BS 52, equivalents or by permission of instructor.

**[OEB 271. Natural Selection in Evolutionary Processes]**

Catalog Number: 2009

*Kathleen Donohue*

*Half course (spring term). Hours to be arranged.*

This graduate level seminar explores the role of natural selection in evolutionary processes and examines the empirical methods employed to detect and interpret patterns of natural selection.

*Note:* Expected to be given in 2006–07.

**\*OEB 272r. Origin and Evolution of Vertebrate Complex Systems**

Catalog Number: 6315

*Farish A. Jenkins, Jr.*

*Half course (spring term). Hours to be arranged.*

Current advances in our understanding of complex structures and functions in vertebrates, their evolutionary origins, and their integration within the whole organism. Neontological and paleontological topics to be selected and presented by students and instructors.

*Prerequisite:* OEB 102 (formerly Bio 102), and OEB 130 or 139 (formerly Bio 130 and Bio 139), or Medical Sciences 250ab, or equivalent.



**OEB 273. Comparative Biomechanics**

Catalog Number: 2818

*Andrew A. Biewener and Jacques Dumais*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

An exploration of how animals and plants contend with their physical environment, considering their biomaterial properties, structural form, and mechanical interaction with the environment. Through lectures, seminar discussions, and student presentations based on readings, students are introduced to topics related to biomechanical performance.

*Prerequisite:* Math 1a & b and Physics 11a; Math 21a recommended, or permission of instructor.

**[OEB 274. Evolutionary Ecology]**

Catalog Number: 2152

*Kathleen Donohue*

*Half course (spring term). Hours to be arranged.*

Graduate seminar on fundamental principles of evolutionary ecology. The course will provide the foundations of microevolutionary theory studied from an ecological perspective.

*Note:* Expected to be given in 2006–07.

**[OEB 275r. Natural Selection at the Molecular Level]**

Catalog Number: 5004

*Scott V. Edwards*

*Half course (fall term). Hours to be arranged.*

Through reading of the primary literature, this course reviews recent empirical evidence for natural selection at the molecular level. Topics will vary depending on student interest, and could include host-parasite interactions, balancing selection, geographic variation, molecular clocks, and eukaryotic genome evolution.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* BS 50, BS 52 or equivalent.

**[\*OEB 276. Models of Development]**

Catalog Number: 1448

*Jacques Dumais*

*Half course (spring term). Hours to be arranged.*

A lecture and discussion course on the modeling of animal and plant development. Topics will include analysis of gene networks, positional signaling, reaction-diffusion systems, mechano-chemistry and tissue mechanics and remodeling. Emphasis will be on models of development that are mechanistic and well supported experimentally.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Math 1a and b; Math 21a and b recommended, or permission of instructor.

**OEB 277. Adaptive Radiation**

Catalog Number: 4119

*Jonathan Losos (Washington University, St. Louis)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

A critical examination of the concepts and methods related to the study of adaptive radiation. Evolutionary consequences will be studied from both empirical and theoretical perspectives.



**\*OEB 299r (formerly \*Biology 299r). Forest Practice and Research**

Catalog Number: 6128

*David R. Foster*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Field and laboratory research into the history, biology, ecology, culture, and economic problems of local, regional, and world forests. Individual research projects.

*Note:* Seminars, conferences, field, and laboratory work at the Harvard Forest, Petersham, Massachusetts.

***Cross-listed Courses***

**Applied Physics 291. Electron Microscopy Laboratory**

**\*Chemistry 270 (formerly Chemistry 170). Chemical Biology**

***Graduate Courses of Reading and Research***

**\*MCB 300. Introduction to Research**

Catalog Number: 4816

*Markus Meister 3007, Andrew Murray 3765, and members of the Department*

**\*MCB 301. Synapse Formation**

Catalog Number: 3935

*Joshua Sanes 5094*

**\*MCB 302. Mechanisms of Epigenetic Reprogramming**

Catalog Number: 6640

*Kevin C. Eggan 5373*

**\*MCB 303. Mechanisms of Epigenetic Inheritance by Polycomb Group Proteins**

Catalog Number: 3144

*Nicole J. Francis 5227*

**\*MCB 306. Biophysics and Physiology of Neurons**

Catalog Number: 1695

*Venkatesh N. Murthy 2424*

**\*MCB 307. Developmental Genetics and Neurobiology**

Catalog Number: 8554

*Alexander F. Schier 5238*

**\*MCB 308. Quantitative Analysis of Regulatory Networks**

Catalog Number: 2226

*Erin K. O'Shea 5239*



**\*MCB 311. Biochemistry of Epigenetics**

Catalog Number: 6131

*Nicole J. Francis 5227*

**\*MCB 312. Military and Arms Control Applications of Biology and Chemistry**

Catalog Number: 2063

*Matthew Meselson 1319*

**\*MCB 322. Genetics and Development**

Catalog Number: 7290

*Craig P. Hunter 2803*

**\*MCB 326. Biochemical Virology**

Catalog Number: 0243

*Raymond L. Erikson 7506 (on leave fall term)*

**\*MCB 327. DNA Damage Induced Signal Transduction**

Catalog Number: 8684

*Matthew Michael 3825*

**\*MCB 344. Molecular and Developmental Neurobiology**

Catalog Number: 2292

*Catherine Dulac 2801*

**\*MCB 359. Chromosomes**

Catalog Number: 6278

*Nancy Kleckner 4697*

**\*MCB 364. Vertebrate Development**

Catalog Number: 1396

*Andrew P. McMahon 3312*

**\*MCB 365. Neurobiology**

Catalog Number: 8349

*John E. Dowling 3545*

**\*MCB 366. Synaptic Plasticity and Neuronal Networks**

Catalog Number: 1085

*Florian Engert 4290, Rachelle Gaudet 4413, and David Jeruzalmi 4528*

**\*MCB 367. Structural Studies of Synapses**

Catalog Number: 1850

*Jeff Lichtman 5163*



**\*MCB 369. Structure, Composition, and Function of Biological Membranes**

Catalog Number: 4636

*Daniel Branton 4139*

**\*MCB 373. Cellular Biochemistry and Physiology**

Catalog Number: 8053

*J. Woodland Hastings 1311*

**\*MCB 374. Developmental Neurobiology**

Catalog Number: 6167

*Samuel M. Kunes 3486 (on leave fall term)*

**\*MCB 376. Molecular Biology**

Catalog Number: 4159

*Walter Gilbert 1306*

**\*MCB 377. Genetics and Development**

Catalog Number: 5598

*William M. Gelbart 4774*

**\*MCB 378. Motile Behavior of Bacteria**

Catalog Number: 5729

*Howard C. Berg 1377 (on leave fall term)*

**\*MCB 381. Microbial Development**

Catalog Number: 4994

*Richard M. Losick 3561 (on leave 2005-06)*

**\*MCB 382. Molecular Immunology**

Catalog Number: 5515

*Jack L. Strominger 1193*

**\*MCB 386. Molecular Evolution**

Catalog Number: 0763

*Matthew Meselson 1319*

**\*MCB 390. Function of Neuronal Circuits**

Catalog Number: 8883

*Markus Meister 3007*

**\*MCB 391. Biochemistry**

Catalog Number: 4888

*Guido Guidotti 1203 (on leave fall term)*



**\*MCB 392. Lysosomal Cholesterol Transport**

Catalog Number: 7866

*Axel Nohturfft 3826*

**\*MCB 395. Mechanisms of Gene Regulation**

Catalog Number: 7697

*Tom Maniatis 7231*

**\*MCB 396. Regulation of Mitosis**

Catalog Number: 5706

*Andrew W. Murray 3765*

**\*MCB 399. Vertebrate Developmental Biology**

Catalog Number: 7699

*Douglas A. Melton 7232*

**\*OEB 303 (formerly \*Biology 303). Theoretical Population Genetics**

Catalog Number: 4248

*John R. Wakeley 5680*

**\*OEB 304 (formerly \*Biology 304). Mycology**

Catalog Number: 4702

*Donald H. Pfister 4344 (on leave spring term)*

**\*OEB 305 (formerly \*Biology 305). The Fundamental Interconnectedness of All Things**

Catalog Number: 3647

*David A. Haig 1629*

**\*OEB 307 (formerly \*Biology 307). Biomechanics, Physiology and Musculoskeletal Biology**

Catalog Number: 2831

*Andrew A. Biewener 1446*

**\*OEB 308 (formerly \*Biology 308). Evolution of Floral Developmental Mechanisms**

Catalog Number: 5535

*Elena M. Kramer 3791*

**\*OEB 310 (formerly \*Biology 310). Metazoan Systematics**

Catalog Number: 3975

*Gonzalo Giribet 3854*

**\*OEB 311 (formerly \*Biology 311). Ecosystem Ecology**

Catalog Number: 6416

*Paul R. Moorcroft 4174*



**\*OEB 312 (formerly \*Biology 312). Evolutionary Ecology**

Catalog Number: 2029

*Kathleen Donohue 4292*

**\*OEB 320 (formerly \*Biology 320). Biomechanics and Evolution of Vertebrates**

Catalog Number: 8915

*George V. Lauder 2375*

**\*OEB 323 (formerly \*Biology 323). Advanced Vertebrate Anatomy**

Catalog Number: 8188

*Farish A. Jenkins, Jr. 3558*

**\*OEB 324 (formerly \*Biology 324). Molecular Evolution**

Catalog Number: 2356

*Daniel L. Hartl 3278*

**\*OEB 325 (formerly \*Biology 325). Marine Biology**

Catalog Number: 4643

*Robert M. Woollacott 4135*

**\*OEB 334 (formerly \*Biology 334). Behavioral Ecology**

Catalog Number: 8279

*Naomi E. Pierce 2889 (on leave 2005-06)*

**\*OEB 335 (formerly \*Biology 335). Ichthyology and Functional Anatomy of Fishes**

Catalog Number: 4640

*Karel F. Liem 3843 (on leave spring term)*

**\*OEB 339 (formerly \*Biology 339). Whole-Plant Physiology**

Catalog Number: 5214

*N. Michele Holbrook 1220*

**\*OEB 341 (formerly \*Biology 341). Coevolution**

Catalog Number: 2998

*Brian D. Farrell 1985*

**\*OEB 343 (formerly \*Biology 343). Microbial Ecology and Symbiosis**

Catalog Number: 1288

*Colleen M. Cavanaugh 2538*

**\*OEB 345 (formerly \*Biology 345). Biological Oceanography**

Catalog Number: 4676

*James J. McCarthy 4343*





**\*OEB 355 (formerly \*Biology 355). Evolutionary Developmental Biology**

Catalog Number: 9192

*James Hanken 2719*

**\*OEB 357 (formerly \*Biology 357). Population Biology and Mathematical Biology**

Catalog Number: 5392

*William H. Bossert 1049*

**\*OEB 359 (formerly \*Biology 359). Paleobotany**

Catalog Number: 0248

*Andrew H. Knoll 7425*

**\*OEB 360. Plant Biophysics**

Catalog Number: 8421

*Jacques Dumais 4719*

**\*OEB 361. Somatic Evolution of Cancer**

Catalog Number: 5791

*Martin A. Nowak 4568*

**\*OEB 362. Research in Molecular Evolution**

Catalog Number: 2367

*Scott V. Edwards 5049*

**\*OEB 363. Plant Diversity and Evolution**

Catalog Number: 0001

*Charles C. Davis 5263*

**\*OEB 364. Ecological Physiology of Microbes**

Catalog Number: 0002

*Peter R. Girguis 5264*

**\*OEB 365. Evolution of Microbes**

Catalog Number: 0003

*Christopher Marx 5265*

**\*OEB 366. Ecological Genetics and Mycology**

Catalog Number: 0004

*Anne E. Pringle 5266*

**\*OEB 399 (formerly \*Biology 399). Topics in Organismic and Evolutionary Biology**

Catalog Number: 0764

*Colleen M. Cavanaugh 2538*

*Half course (fall term). W., 5–7 pm.*

Presents the research interests and experiences of scientists in organismic and evolutionary



biology. Specific topics treated vary from year to year.

*Note:* Required of all first-year graduate students in Organismic and Evolutionary Biology.

## Biological Sciences in Dental Medicine

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Higher Degrees in Dental Medicine*

Bjørn R. Olsen, Professor of Oral and Developmental Biology and Hersey Professor of Cell Biology (*Dental School, Medical School*) (*Chair*)

John D. Bartlett, Assistant Professor of Oral and Developmental Biology (*Dental School*)

Joyce E. Bischoff, Assistant Professor of Cellular and Molecular Physiology (*Medical School*)

Patricia A. D'Amore, Professor of Ophthalmology (*Medical School*)

Floyd E. Dewhirst, Associate Professor of Oral and Developmental Biology (*Medical School*)

Daniel Finley, Professor of Cell Biology (*Medical School*)

David E. Fisher, Professor of Pediatrics (*Medical School*)

James Hanken, Professor of Biology and Alexander Agassiz Professor of Zoology

Peter V. Hauschka, Associate Professor of Oral and Developmental Biology (*Dental School*)

Martin E. Hemler, Professor of Pathology (*Medical School*)

Michael Klagsbrun, Patricia A. Donahue Professor of Surgery (*Medical School*)

Henry M. Kronenberg, Professor of Medicine (*Medical School*)

Beate K. M. Lanske, Associate Professor of Oral and Developmental Biology (*Dental School*)

Andrew B. Lassar, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Michael Levin, Assistant Professor of Oral and Developmental Biology (*Dental School*)

Yefu Li, Assistant Professor of Oral and Developmental Biology (*Dental School*)

Yi-Ping Li, Assistant Professor of Oral and Developmental Biology (*Dental School*)

Daniel E. Lieberman, Professor of Anthropology

Henry C. Margolis, Associate Professor of Oral and Developmental Biology (*Dental School*)

Alan M. Michelson, Associate Professor of Medicine (*Medical School*)

Bruce J. Paster, Associate Professor of Oral and Developmental Biology (*Dental School*)

Vicki Rosen, Professor of Oral and Developmental Biology (*Dental School*)

Philip P. Stashenko, Associate Professor of Oral and Developmental Biology (*Dental School*)

Martin A. Taubman, Professor of Oral and Developmental Biology (*Dental School*)

The Biological Sciences in Dental Medicine (BSDM) Program, leading to the PhD degree combines faculty from the Department of Oral and Developmental Biology and other Harvard School of Dental Medicine departments with faculty from basic science departments at Harvard Medical School, and faculty from the Faculty of Arts and Sciences.



This newly established program offers advanced study in the molecular, supramolecular, cellular, and supracellular processes that provide the intellectual basis for dental medicine.

The BSDM program is intended for scholars interested in pursuing a career in basic or patient-oriented science in the areas of skeletal biology, cell biology and development, immunology, or microbiology leading to a PhD degree. Eligible applicants will be individuals with a baccalaureate in sciences (BS), a master degree in sciences, (MS), a doctoral degree in dentistry, (DMD, DDS), or a medical doctoral degree (MD).

### ***Graduate Courses of Reading and Research***

#### **\*Biological Sciences in Dental Medicine 300. Research with Faculty**

Catalog Number: 9825

*Members of the Committee*

## Biological Sciences in Public Health

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Committee on Higher Degrees in Public Health Sciences***

James H. Ware, Frederick Mosteller Professor of Biostatistics (*Public Health*) (*Chair*)

Bruce F. Demple, Professor of Toxicology (*Public Health*)

Thomas O. Fox, Associate Professor of Neuroscience (*Medical School*)

Laurie H. Glimcher, Professor of Medicine (*Medical School*) and Irene Heinz Given Professor of Immunology (*Public Health*)

J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences

Stephen W. Lagakos, Henry Pickering Walcott Professor of Biostatistics (*Public Health*)

Nan Laird, Professor of Biostatistics (*Public Health*)

Xiao-Li Meng, Professor of Statistics

Carl N. Morris, Professor of Statistics (*on leave spring term*)

Dyann F. Wirth, Professor of Tropical Public Health (*Public Health*)

#### ***Faculty of the Subcommittee on the Doctor of Philosophy in Biological Sciences in Public Health***

Dyann F. Wirth, Professor of Tropical Public Health (*Public Health*) (*Chair*)

Joseph D. Brain, Cecil K. and Phillip Drinker Professor of Environmental Physiology (*Public*

*Health)*

Bruce F. Demple, Professor of Toxicology (*Public Health*)

Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology (*on leave fall term*)

Myron E. Essex, John Laporte Given Professor of Infectious Diseases (*Public Health*)

Thomas O. Fox, Associate Professor of Neuroscience (*Medical School*)

Laurie H. Glimcher, Professor of Medicine (*Medical School*) and Irene Heinz Given Professor of Immunology (*Public Health*)

J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences

Bjørn R. Olsen, Professor of Oral and Developmental Biology and Hersey Professor of Cell Biology (*Dental School, Medical School*)

Walter C. Willett, Professor of Medicine (*Medical School*) and Frederick John Stare Professor of Epidemiology and Nutrition (*Public Health*)

***Other Faculty Offering Instruction in Biological Sciences in Public Health***

Robert B. Banzett, Associate Professor of Medicine and Associate Professor in the Department of Environmental Health (*Medical School, Public Health*)

Harriet A. Burge, Associate Professor of Environmental Microbiology (*Public Health*)

Barbara Burleigh, Associate Professor of Immunology and Infectious Diseases (*Public Health*)

James Preston Butler, Associate Professor of Medicine (*Medical School*)

Hannia Campos, Associate Professor of Nutrition (*Public Health*)

David Christiani, Professor of Medicine (*Medical School*)

John R. David, Professor of Medicine (*Medical School*) and Richard Pearson Strong Professor of Immunology and Infectious Diseases (*Public Health*)

Manoj T. Duraisingh, Assistant Professor of Infectious Diseases (*Public Health*)

Jeffrey J. Fredberg, Professor of Bioengineering and Physiology (*Public Health*)

Marcia Goldberg, Associate Professor of Medicine (*Medical School*)

Beatriz Susana Gonzalez-Flecha, Mark and Catherine Winkler Assistant Professor of Molecular Biology and Environmental Health (*Public Health*)

Michael Grusby, Professor of Molecular Immunology (*Public Health*) and Associate Professor of Medicine (*Public Health*)

Donald A. Harn, Professor of Tropical Public Health (*Public Health*)

I-Cheng Ho, Assistant Professor of Medicine (*Medical School*)

Gokhan S. Hotamisligil, James Stevens Simmons Professor of Genetics and Metabolism (*Public Health*)

Howard Hu, Associate Professor of Occupational Medicine (*Public Health*) and Associate Professor of Medicine (*Medical School*)

David J. Hunter, Professor of Epidemiology and Nutrition (*Public Health*)

Phyllis J. Kanki, Professor of Immunology and Infectious Diseases (*Public Health*)

Karl Kelsey, Professor of Environmental Health and Cancer Biology (*Public Health*) and Associate Professor of Medicine (*Medical School*)

Lester Kobzik, Associate Professor of Pathology (*Medical School*) and Associate Professor in the Department of Environmental Health (*Public Health*)

Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)

Igor Kramnik, Associate Professor of Immunology (*Public Health*)



Catherine A. Lee, Silas Arnold Houghton Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Chih-Hao Lee, Assistant Professor of Genetics and Complex Diseases (*Public Health*)  
 Tun-Hou Lee, Professor of Virology (*Public Health*)  
 Marc Lipsitch, Assistant Professor of Epidemiology (*Public Health*)  
 John B. Little, James Stevens Simmons Professor of Radiobiology (*Public Health*)  
 Clifford Lo, Assistant Professor of Pediatrics (*Medical School*) and Assistant Professor of Nutrition (*Public Health*)  
 Brendan D. Manning, Assistant Professor of Genetics and Complex Diseases (*Public Health*)  
 Donald K. Milton, Assistant Professor of Occupational Medicine (*Public Health*)  
 Joseph P. Mizgerd, Associate Professor of Physiology and Cell Biology (*Public Health*)  
 Karl Münger, Associate Professor of Pathology (*Medical School*)  
 Heather H. Nelson, Assistant Professor of Environmental Epidemiology (*Public Health*)  
 Mark Perrella, Assistant Professor of Medicine (*Medical School*) and Assistant Professor in the Division of Biological Sciences (*Public Health*)  
 Guy L. Reed III, Associate Professor of Medicine (*Medical School*) and Associate Professor of Immunology (*Public Health*)  
 Eric J. Rubin, Assistant Professor of Medicine (*Medical School*) and Assistant Professor of Immunology and Infectious Diseases (*Public Health*)  
 Frank M. Sacks, Professor of Medicine (*Medical School*) and Professor of Nutrition (*Public Health*)  
 John C. Samuelson, Associate Professor of Tropical Public Health (*Public Health*)  
 Steven A. Shea, Assistant Professor of Environmental Health (*Public Health*) and Assistant Professor of Medicine (*Medical School*)  
 Stephanie A. Shore, Senior Lecturer of Physiology (*Public Health*)  
 Eric Silverman, Assistant Professor of Environmental Health (*Public Health*) and Assistant Professor of Medicine (*Medical School*)  
 Thomas Jay Smith, Professor of Industrial Hygiene (*Public Health*)  
 Joseph G. Sodroski, Professor of Pathology (*Medical School*) and Professor of Cancer Biology (*Public Health*)  
 Armen H. Tashjian, Jr., Professor of Toxicology, *Emeritus* (*Public Health*) and Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Ning Wang, Associate Professor of Physiology (*Public Health*)  
 Marianne Wessling-Resnick, Professor of Nutritional Biochemistry (*Public Health*)  
 Dieter Wolf, Associate Professor of Toxicology (*Public Health*)  
 Xiping Xu, Associate Professor of Occupational Epidemiology (*Public Health*) and Associate Professor of Medicine (*Medical School*)  
 Zhi-Min Yuan, James Stevens Simmons Associate Professor of Toxicology (*Public Health*)

The FAS Standing Committee on Higher Degrees in Public Health Sciences has the general responsibility of overseeing the existing PhD degree programs in biological sciences and biostatistics and developing new PhD programs in other important domains of public health.

The committee is composed of representatives from the Faculty of Arts and Sciences, the School of Public Health, and the Medical School. The committee membership is drawn from the biological and numeric sciences to reflect the current PhD programs. As new programs are



created in the future, members representing other relevant disciplines will be added to the committee.

The committee works with the Subcommittee on the Degree of Doctor of Philosophy in Biological Sciences and the Subcommittee on the Degree of Doctor of Philosophy in Biostatistics to make policy decisions and ensure the continuing strengths of those programs. The committee is also charged with initiating discussion of and planning for additional PhD programs.

The Subcommittee on the Degree of Doctor of Philosophy in Biological Sciences in Public Health (with membership from the Faculty of Arts and Sciences, the Medical School, and the School of Public Health) and the Subcommittee on the Degree of Doctor of Philosophy in Biostatistics (with membership from the Faculty of Arts and Sciences and the School of Public Health) hold responsibility for oversight of their respective programs, including monitoring requirements and standards for the degree and creating standards for admission.

For more courses of interest, see the School of Public Health catalog.

### ***Primarily for Graduates***

#### **\*BPH 205. Introduction to Cancer Biology**

Catalog Number: 6234 Enrollment: Limited to 30.

*Zhi-Min Yuan (Public Health), Karl Kelsey (Public Health, Medical School), and Dieter Wolf (Public Health)*

*Half course (fall term). M., F., 1:30–3:20. EXAM GROUP: 6, 7*

Emphasizes current experimental approaches to studying cancer biology and the process of carcinogenesis. Topics include the biology of cell modification and differentiation, the phenotype of the cancer cell, properties of human and animal cancers, the process of cell transformation, mutagenesis, carcinogen metabolism, and cancer epidemiology.

*Note:* Offered jointly with the School of Public Health as GCD 210. First Meeting: Friday, September 9, 1:30–3:20 in FXB Bldg, G13, SPH.

*Prerequisite:* College-level course in biology required.

#### **[BPH 206. Advanced Respiratory Physiology]**

Catalog Number: 1049

*James Preston Butler (Medical School) and Robert B. Banzett (Medical School, Public Health)*  
*Half course (fall term). Hours to be arranged.*

Respiratory measurements are integral to public health research. We will critically discuss their scientific bases, noting practical considerations and pitfalls, and their interpretations and inferences about physiological status and disease.

*Note:* Expected to be given in 2006–07. Offered jointly with the School of Public Health as EH 223.

*Prerequisite:* EH 205 or equivalent, or signature of instructor indicating suitable background required. College-level physiology.





### **BPH 207. Advanced Topics in Physiology**

Catalog Number: 2146

*Jeffrey J. Fredberg (Public Health)*

*Half course (spring term). M., 10:30–12:20, W., 3:30–5:20. EXAM GROUP: 3, 4*

An opportunity for students interested in the respiratory system to focus on special topics in lung biology. This year's emphasis is on the fundamental physical basis and quantitative description of chemical, electrical, and mechanical signaling within the cell. Specific topics covered include passive diffusion, facilitated diffusion, solvent and solvent transport, channels, action potentials, membrane transport, and receptor-ligand binding.

*Note:* Offered jointly with the Medical School as BPH 727.0 and with the School of Public Health as EH 225.

### **BPH 208. Human Physiology**

Catalog Number: 3627

*Stephanie A. Shore (Public Health)*

*Half course (fall term). M., F., 10:30–12:20. EXAM GROUP: 3, 4*

An introduction to the principles governing function in the human body designed to provide a framework in physiology for future public health researchers and professionals who have not taken college level physiology courses. Emphasis on the concept of homeostasis and on integrative aspects of physiology. Examples of pathophysiology and environmental physiology highlight these processes.

*Note:* Offered jointly with the Medical School as BPH 728.0 and with the School of Public Health as EH 205. First Meeting: Friday, September 9, 10:30–12:20, in FXB Bldg, G13, SPH.

*Prerequisite:* College-level introductory biology or permission of the instructor.

### **BPH 210. Pathophysiology of Human Disease**

Catalog Number: 3078

*Lester Kobzik (Public Health)*

*Half course (spring term). M., F., 1:30–3:20. EXAM GROUP: 6, 7*

Surveys major human disease problems in the cardiovascular, respiratory, hematopoietic, reproductive and gastrointestinal systems. Emphasis on understanding the pathophysiologic basis of common disease manifestations and the pathogenesis of the disease process.

*Note:* Offered jointly with the Medical School as BPH 729.0 and with the School of Public Health as ID 208.

*Prerequisite:* A college-level human physiology course.

### **\*BPH 212. Cellular and Molecular Biology of Parasites**

Catalog Number: 0703 Enrollment: Limited to 35.

*Barbara Burleigh (Public Health) and members of the Department*

*Half course (spring term). Tu., 3–6. EXAM GROUP: 17, 18*

We cover aspects of biochemistry, cell and molecular biology of protozoan parasites of humans, including: malaria, toxoplasma, leishmania, trypanosomes, amoebae and giardia. Includes in-depth discussions on comparative mechanisms of pathogenesis; unique parasite biochemistry and organelles; strategies/ molecular basis for host immune invasion; bioinformatics approaches to molecular pathogenesis.

*Note:* Expected to be omitted in 2006–07. Given in alternate years. Offered jointly with the





Medical School as BPH 721.0 and with the School of Public Health as IMI 216.

*Prerequisite:* Coursework in biochemistry, genetics, or microbiology.

### **BPH 213. Cell Response to Mutagens and Carcinogens**

Catalog Number: 0932

*Bruce F. Demple (Public Health)*

*Half course (fall term). Tu., Th., 1:30–3:20. EXAM GROUP: 15, 16, 17*

A seminar course based on emerging research on the molecular effects of mutagenic, carcinogenic, and cytotoxic agents. Particular focus on the cellular mechanisms that preserve biological integrity (e.g., cell cycle checkpoints; DNA repair) or mediate cellular responses to stress (e.g., redox signal transduction; apoptosis pathways). Involves analysis and critical discussion of research papers. Written assignments in developing relevant research projects (mini-grant proposals).

*Note:* Given in alternate years. Offered jointly with the Medical School as BPH 723.0 and the School of Public Health as GCD 250. First Meeting: Tuesday, September 6, 1:30–3:20, in HPSH-3, 204, SPH.

*Prerequisite:* Advanced or graduate courses in biochemistry, cell biology, or genetics.

### **BPH 215. Principles of Toxicology**

Catalog Number: 5366

*A. Wallace Hayes (Public Health)*

*Half course (fall term). Tu., 3:30–5:20. EXAM GROUP: 17, 18*

Emphasizes mechanisms of injury and clinical consequences following exposures to environmental and occupational chemicals. Examines actions at the molecular, cellular, organ system, and organismal levels. Discusses methods for detecting, evaluating, analyzing, and combating toxic effects.

*Note:* Offered jointly with the Medical School as BPH 713.0 and with the School of Public Health as EH 504. First Meeting: Friday, September 9, 1:30–3:20, in HPSH-3, 213, SPH.

*Prerequisite:* Organic chemistry and mammalian physiology or equivalent.

### **[\*BPH 216. Immunology of Infectious Diseases]**

Catalog Number: 6938 Enrollment: Limited to 35.

*Donald A. Harn (Public Health)*

*Half course (spring term). Hours to be arranged.*

Covers in detail the interactions of pathogens with the host immune system, including innate and protective responses and those immune responses that are deleterious. Topics include: overview of immune responses; response of mucosal-secretory immune system to pathogens; innate immunity “the collectins”; innate immunity “Th2 PAMPs”; pathogen regulation of host immune responses; pathogen evasion of immune effector mechanisms; polarization of CD4<sup>+</sup> T helper cell subsets and relationship to disease outcome; resistance to HIV; HIV and co-infection with other pathogens; mechanisms of immunopathogenesis; and development of vaccines. Pathogens covered in detail include: HIV, cholera, TB, staph/strep, toxoplasma, intestinal protozoa, malaria, helminths.

*Note:* Expected to be given in 2006–07. Given in alternate years. Offered jointly with the Medical School as BPH 724.0 and the School of Public Health as IMI 208. Each lecture requires



reading several relevant papers and completion of a problem set.

*Prerequisite:* An immunology course.

### **\*BPH 219. Biological Sciences Seminars**

Catalog Number: 1152

*Michael Grusby (Public Health)*

*Half course (fall term). Tu., Th., 9–10:30. EXAM GROUP: 11, 12*

Faculty present seminars on their current research in the biological sciences and direct a student discussion of the logic and experimental design of this research. Topics include chemical and viral carcinogenesis, DNA damage and repair, immunology, molecular biology, metabolism, cardiovascular disease, parasitology, and how these areas apply to public health issues.

*Note:* Required for first-year students in the BPH program. Offered jointly with the School of Public Health as DBS 205. First Meeting: Tuesday, September 20, 9–10:30, in FXB Bldg, G11, SPH.

### **BPH 222. The Science of Human Nutrition**

Catalog Number: 0216

*Frank M. Sacks (Medical School, Public Health), Clifford Lo (Medical School, Public Health) and members of the Department*

*Half course (spring term). Tu., Th., 1:30–3:20. EXAM GROUP: 15, 16*

A review of the biochemistry of carbohydrates, fats, proteins, vitamins, and minerals in the context of human disease. Contemporary topics are emphasized. Particular emphasis given to current knowledge of the mechanisms that may explain the role of diet in the causation and/or prevention of ischemic heart disease, diabetes, obesity, hypertension, and cancer. Recommended dietary intakes of selected nutrients are discussed in order to understand their limitations.

*Note:* Offered jointly with the Medical School as BPH 733.0 and with the School of Public Health as NUT 202.

*Prerequisite:* Introductory nutrition course. Prior familiarity with nutrition and the health sciences expected, as well as a basic knowledge of biochemistry and human physiology.

## ***Graduate Courses of Reading and Research***

### **\*BPH 300. Laboratory Rotations**

Catalog Number: 8441

*Dyann F. Wirth (Public Health) 2492, Michael Grusby (Public Health) 1987, and members of the Committee*

Members of the Division of Biological Sciences offer hands-on experimental methods of research in the biological sciences.

*Note:* Offered jointly with the School of Public Health as DBS 300.

### **\*BPH 302. Molecular Regulation of Thrombosis**

Catalog Number: 2731

*Guy L. Reed III 1615*



**\*BPH 304. Study of Workplace Mutagen and Carcinogen Exposure**

Catalog Number: 2734

*Karl Kelsey (Public Health, Medical School) 2316*

**\*BPH 306. Circadian and Sleep Physiology and Disorders**

Catalog Number: 2730

*Steven A. Shea (Public Health, Medical School) 1309*

**\*BPH 307. Cellular Defenses Against Oxygen Radical Damage**

Catalog Number: 2758

*Bruce F. Demple (Public Health) 7853*

**\*BPH 311. Molecular Mechanisms of Control of the Biosynthesis, Secretion, and Action of Polypeptide Hormones**

Catalog Number: 2757

*Armen H. Tashjian, Jr. (Public Health, Medical School) 2071*

**\*BPH 312. Regulation of the Cellular Uptake of Macromolecular Nutrients**

Catalog Number: 2736

*Marianne Wessling-Resnick (Public Health) 1315*

**\*BPH 313. Mechanisms of Drug Resistance in *Entamoeba histolytica***

Catalog Number: 2681

*John C. Samuelson (Public Health) 1618*

**\*BPH 315. Molecular Genetic Analysis of Gene Expression and Drug Resistance in Parasitic Protozoan, Including *Leishmania* and Malaria**

Catalog Number: 2756

*Dyann F. Wirth (Public Health) 2492*

**\*BPH 316. Immunology and Molecular Biology of *Schistosoma mansoni***

Catalog Number: 2737

*Donald A. Harn (Public Health) 2051*

**\*BPH 317. Gene-Environment Interactions in Human Lipoprotein Metabolism**

Catalog Number: 2541

*Hannia Campos (Public Health) 2710*

**\*BPH 319. Signaling Mechanisms of Peptide Hormones, Genetic and Molecular Basis of Obesity and Diabetes**

Catalog Number: 8425

*Gokhan S. Hotamisligil (Public Health) 2725*

**\*BPH 321. Mechanical Mechanisms of Cytoskeleton and its Regulatory Role in Cell Growth and Migration**



Catalog Number: 5552  
*Ning Wang (Public Health) 2737*

**\*BPH 322. Study of Epidemiologic and Biological Characteristics of HIV Viruses in Africa**  
Catalog Number: 4523  
*Phyllis J. Kanki (Public Health) 2270*

**\*BPH 323. Human Lipoprotein Metabolism: Biochemistry and Metabolic Modeling**  
Catalog Number: 5530  
*Frank M. Sacks 2276*

**\*BPH 324. Protein Phosphorylation and Gene Expression in Normal and Transformed Cells**  
Catalog Number: 5915  
*Raymond L. Erikson 7506 (on leave fall term)*

**\*BPH 325. Assessment of the Impact of Workplace Pollutants on Health**  
Catalog Number: 7448  
*David Christiani (Public Health, Medical School) 1514*

**\*BPH 330. Advanced Topics in Biological Sciences in Public Health**  
Catalog Number: 3976  
*Marianne Wessling-Resnick (Public Health) 1315*  
A series of discussion and seminars each running for a half term (7-8 weeks).

**\*BPH 331. Perception of Afferent Information from the Respiratory System**  
Catalog Number: 3655  
*Robert B. Banzett (Medical School, Public Health) 1310*

**\*BPH 332. Function and Structure of Pulmonary and Hepatic Macrophages**  
Catalog Number: 7331  
*Joseph D. Brain (Public Health) 2520*

**\*BPH 333. Nature, Prevalence, Health Effects, and Control of Airborne Biological Agents**  
Catalog Number: 1556  
*Harriet A. Burge (Public Health) 2761*

**\*BPH 334. Molecular Basis of Host Cell Invasion, Signaling and Differentiation by the Human Pathogen, *Trypanosoma cruzi***  
Catalog Number: 2409  
*Barbara Burleigh (Public Health) 2763*

**\*BPH 335. The Biology of Cytokines and the Control of Parasitic Infections**  
Catalog Number: 9204  
*John R. David (Public Health, Medical School) 3592*



**\*BPH 336. Study of Human and Primate T-lymphotrophic Retroviruses Including Agents that Cause AIDS**

Catalog Number: 3248

*Myron E. Essex (Public Health) 2499*

**\*BPH 339. Mechanical Basis of Airway and Lung Parenchymal Function**

Catalog Number: 6572

*Jeffrey J. Fredberg (Public Health) 1303*

**\*BPH 340. Genetic Regulation of Immune Response**

Catalog Number: 3323

*Laurie H. Glimcher (Public Health, Medical School) 1362*

**\*BPH 341. Pathways of Oxidant-dependent Promotion of Cell Growth in Lung Epithelial Cells**

Catalog Number: 9308

*Beatriz Susana Gonzalez-Flecha (Public Health) 2715*

**\*BPH 342. In Vivo Models of Immune Deficiency by Homologous Recombination in ES Cells**

Catalog Number: 2309

*Michael Grusby (Public Health, Medical School) 1987*

**\*BPH 343. Molecular Mechanism of Cellular Circadian Regulation**

Catalog Number: 7740

*J. Woodland Hastings 1311*

**\*BPH 344. Differentiation and Activation of Helper T Cells**

Catalog Number: 2319

*I-Cheng Ho (Medical School) 2764*

**\*BPH 345. Lung Macrophage Differentiation and Function**

Catalog Number: 1495

*Lester Kobzik (Medical School, Public Health) 1313*

**\*BPH 346. Genetic Dissection of Mechanisms of Host Susceptibility to Tuberculosis**

Catalog Number: 1041

*Igor Kramnik (Public Health) 2768*

**\*BPH 348. Human and Related Primate Retroviruses**

Catalog Number: 3024

*Tun-Hou Lee (Public Health) 2769*

**\*BPH 350. Radiation Mutagenesis and Carcinogenesis; Genetic Instability**

Catalog Number: 9227

*John B. Little (Public Health) 1427*



**\*BPH 352. Regulation of Acute Inflammatory Responses by Signaling Molecules**

Catalog Number: 5578

*Joseph P. Mizgerd (Public Health) 2787*

**\*BPH 353. Human Papillomaviruses (HPV's): the Cause of Hyperplastic Skin-leisions**

Catalog Number: 6469

*Karl Münger (Medical School) 1586*

**\*BPH 354. Molecular Studies of Skeletal and Vascular Morphogenesis**

Catalog Number: 8067

*Bjørn R. Olsen (Dental School, Medical School) 1164*

**\*BPH 355. Cytokine Regulation of Vasoactive Mediators in the Pathogenesis of Septic Shock**

Catalog Number: 9398

*Mark Perrella (Public Health, Medical School) 2774*

**\*BPH 357. Physiological and Pharmacological Aspects of Bronchoconstriction.**

Catalog Number: 5047

*Stephanie A. Shore (Public Health) 1304*

**\*BPH 358. Human Immunodeficiency Virus Envelope Glycoproteins and Vaccine Development**

Catalog Number: 0241

*Joseph G. Sodroski (Medical School, Public Health) 1712*

**\*BPH 359. Relations of Dietary Factors to the Occurrence of Human Disease**

Catalog Number: 8215

*Walter C. Willett (Public Health, Medical School) 1805*

**\*BPH 360. DNA Replication and Control of Normal and Abnormal Cell Growth**

Catalog Number: 1395

*Dieter Wolf (Public Health) 2781*

**\*BPH 361. Genetic Dissection of Complex Diseases**

Catalog Number: 1537

*Xiping Xu (Medical School, Public Health) 2785*

**\*BPH 362. Delineation of Biochemical and Molecular Basis of Stress Induced Responses**

Catalog Number: 4140

*Zhi-Min Yuan (Public Health) 9265*

**\*BPH 363. Inherited Susceptibility to Cancer and other Diseases**

Catalog Number: 9066

*David J. Hunter (Public Health) 3844*



**\*BPH 364. Molecular Biology of Bacterial Interactions; Peptide Production and Release; Growth Phase Regulation of Gene Expression**

Catalog Number: 6936

*Roberto G. Kolter (Medical School) 7727*

**\*BPH 365. Virulence Factors of Mycobacteria; Acquisition of Virulence Determinants of *Vibrio Cholerae*; Generalized Mutagenesis Systems for Bacteria**

Catalog Number: 5044

*Eric J. Rubin (Public Health) 4084*

**\*BPH 366. Theoretical, Statistical, and Experimental Approaches to Population Biology and the Epidemiology of Infectious Diseases**

Catalog Number: 7822

*Marc Lipsitch (Public Health) 4097*

**\*BPH 368. Host-pathogen Interactions of *Shigella***

Catalog Number: 6995

*Marcia Goldberg (Medical School) 3783*

**\*BPH 369. Metals Toxicity and Gene-Metal Interactions**

Catalog Number: 8600

*Howard Hu 4322*

**\*BPH 370. Environmental Exposures for Studies in Health Effects, and Investigation of the Relationship Between Environmental Exposure and Internal Dose**

Catalog Number: 5653

*Thomas Jay Smith (Public Health) 4337*

**\*BPH 371. Molecular and Genetic Determinant of Asthma**

Catalog Number: 6853

*Eric Silverman 4336*

**\*BPH 372. Molecular Mechanisms Underlying the Pathogenesis of Human Malaria**

Catalog Number: 2598

*Manoj T. Duraisingh (Public Health) 5177*

**\*BPH 373. Skin Cancer: New Models and Risk Assessments**

Catalog Number: 2988

*Heather H. Nelson (Public Health) 5196*

**\*BPH 374. Nuclear Lipid Receptors as Therapeutic Targets of Metabolic Diseases**

Catalog Number: 3153

*Chih-Hao Lee (Public Health) 5294*





**\*BPH 375. Signaling Pathways Underlying Tumorigenesis and Metabolic Diseases**

Catalog Number: 3159

*Brendan D. Manning (Public Health) 5293*

## Biophysics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### ***Faculty of the Committee on Higher Degrees in Biophysics***

James M. Hogle, Edward S. Harkness Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*) (*Chair*)

Howard C. Berg, Herchel Smith Professor of Physics and Professor of Molecular and Cellular Biology, Tutor in Biochemical Sciences (*on leave fall term*)

Stephen C. Blacklow, Associate Professor of Pathology (*Medical School*)

George M. Church, Professor of Genetics (*Medical School*)

Thomas E. Ellenberger, Hsien Wu and Daisy Yen Wu Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Stephen C. Harrison, Professor of Biological Chemistry and Molecular Pharmacology and of Pediatrics (*Medical School*)

David R. Liu, Professor of Chemistry and Chemical Biology

Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

Gregory L. Verdine, Harvard College Professor and Erving Professor of Chemistry

Gerhard Wagner, Elkan Blout Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

#### ***Other Faculty Offering Instruction in Biophysics***

John A. Assad, Associate Professor of Neurobiology (*Medical School*)

Frederick Ausubel, Professor of Genetics (*Medical School*)

William H. Bossert, David B. Arnold, Jr. Professor of Science

Daniel Branton, Higgins Professor of Biology, *Emeritus*

Martha L. Bulyk, Assistant Professor of Medicine and Health Sciences and Technology and Assistant Professor of Pathology (*Medical School*)

Lewis C. Cantley, Professor of Medicine and Professor of Systems Biology (*Medical School*)

James J. Chou, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

David E. Clapham, Arlo R. Castaneda Professor of Cardiovascular Research (*Medical School*)



Jon Clardy, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Jonathan B. Cohen, Professor of Neurobiology (*Medical School*)  
R. John Collier, Maude and Lillian Presley Professor of Microbiology and Molecular Genetics (*Medical School*)  
David P. Corey, Professor of Neurobiology (*Medical School*)  
Bruce F. Dimple, Professor of Toxicology (*Public Health*)  
John E. Dowling, Gordon and Llura Gund Professorship of Neurosciences (*FAS*) and Professor of Ophthalmology (*Medical School*)  
Michael J. Eck, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Florian Engert, Assistant Professor of Molecular and Cellular Biology  
Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology (*on leave fall term*)  
Rachelle Gaudet, Assistant Professor of Molecular and Cellular Biology  
David E. Golan, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
Edward E. Harlow, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences  
Donald E. Ingber, Judah Foldman Professor of Vascular Biology (*Medical School*)  
David Jeruzalmi, Assistant Professor of Molecular and Cellular Biology  
Martin Karplus, Theodore William Richards Professor of Chemistry, Emeritus  
Tomas Kirchhausen, Professor of Cell Biology (*Medical School*)  
Nancy Kleckner, Herchel Smith Professor of Molecular Biology  
Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Jun S. Liu, Professor of Statistics  
Gavin MacBeath, Assistant Professor of Chemistry and Chemical Biology  
Tom Maniatis, Thomas H. Lee Professor of Molecular and Cellular Biology  
Keith W. Miller, Mallinckrodt Professor of Pharmacology (*Medical School*)  
Timothy J. Mitchison, Hasib Sabbagh Professor of Systems Biology (*Medical School*)  
Andrew W. Murray, Herchel Smith Professor of Molecular Genetics  
Venkatesh N. Murthy, Morris Kahn Associate Professor of Molecular and Cellular Biology  
David Pellman, Associate Professor of Pediatrics (*Medical School*)  
Mara Prentiss, Mallinckrodt Professor of Physics (*on leave spring term*)  
Tom Rapoport, Professor of Cell Biology (*Medical School*)  
Frederick P. Roth, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Gary B. Ruvkun, Professor of Genetics (*Medical School*)  
Bernardo L. Sabatini, Assistant Professor of Neurobiology (*Medical School*)  
Aravinthan D. T. Samuel, Assistant Professor of Physics  
Stuart L. Schreiber, Morris Loeb Professor of Chemistry  
Brian Seed, Professor of Genetics (*Medical School*)  
Steven E. Shoelson, Professor of Medicine (*Medical School*)  
Pamela A. Silver, Professor of Systems Biology (*Medical School*)



Timothy A. Springer, Latham Family Professor of Pathology (*Medical School*)  
Shamil R. Sunyaev, Assistant Professor of Medicine and Health Sciences and Technology (*Medical School*)  
Jack Szostak, Professor of Genetics (*Medical School*)  
Antoine van Oijen, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
John R. Wakeley, Professor of Organismic and Evolutionary Biology  
Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Thomas Walz, Associate Professor of Cell Biology (*Medical School*)  
George M. Whitesides, Woodford L. and Ann A. Flowers University Professor  
Xiaoliang Sunney Xie, Professor of Chemistry and Chemical Biology  
Gary I. Yellen, Professor of Neurobiology (*Medical School*)

Biophysics students should consult course listings from the departments of Biology, Chemistry and Chemical Biology, Physics, Molecular and Cellular Biology, the Division of Engineering and Applied Sciences, Applied Math, and the Division of Medical Sciences.

### ***For Undergraduates and Graduates***

#### **Biophysics 101. Genomics, Computing, Economics, and Society**

Catalog Number: 6896

*George M. Church (Medical School)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course will focus on understanding aspects of modern technology displaying exponential growth curves and the impact on global quality of life through a weekly updated class project integrating knowledge and providing practical tools for political and business decision-making concerning new aspects of bioengineering, personalized medicine, genetically modified organisms, and stem cells. Interplays of economic, ethical, ecological, and biophysical modeling will be explored through multi-disciplinary teams of students, and individual brief reports.

#### **Biophysics 170. Quantitative Genomics**

Catalog Number: 3598

*Shamil R. Sunyaev (Medical School) and members of the Committee*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

Introduction to genomics with in-depth study of four areas: models of evolution and population genetics; comparative genomics: analysis and comparison; structural genomics: protein structure, evolution and interactions; functional genomics, gene expression, structure and dynamics of regulatory networks.

*Note: Meets at MIT, Room 32-144. Offered jointly with the Medical School as HT.508.*

### ***Cross-listed Courses***

#### **Applied Mathematics 105a. Complex and Fourier Analysis**

#### **Applied Mathematics 105b. Ordinary and Partial Differential Equations**

#### **Applied Mathematics 115. Mathematical Modeling**



**[Applied Mathematics 147. Nonlinear Dynamical Systems]**  
[Chemistry 154. Crystal Symmetry, Diffraction, and Structure Analysis](#)  
[Chemistry 160. Physical Chemistry](#)  
[Chemistry 161. Statistical Thermodynamics](#)  
**[Chemistry 163. Frontiers in Biophysics]**  
[Chemistry 165. Experimental Physical Chemistry](#)  
[Engineering Sciences 145. Introduction to Systems Analysis with Physiological Applications](#)  
[Engineering Sciences 148. Neural Signal Processing](#)  
[Engineering Sciences 156. Signals and Systems](#)  
[Mathematics 115. Methods of Analysis and Applications](#)  
[MCB 105. Systems Neuroscience](#)  
[MCB 111 \(formerly MCB 211\). Mathematics in Biology](#)  
[MCB 115. Cellular Basis of Neuronal Function](#)  
[MCB 117. Experimental Neuroscience](#)  
**[\*MCB 129. Molecular Genetics of Neural Development and Behavior]**  
[MCB 140. Introduction to Biophysics](#)  
[MCB 141. Molecular and Developmental Neurobiology](#)  
[MCB 150. Developmental Genetics and Genomics](#)  
[\\*MCB 155. Molecular Mechanisms of Gene Control](#)  
[MCB 156. Structural Biology of the Flow of Information in the Cell](#)  
[MCB 169. Molecular and Cellular Immunology](#)  
**[MCB 176. Biochemistry of Membranes]**  
**[OEB 152 (formerly Biology 152). Population Genetics]**

***Primarily for Graduates***

**[Biophysics 204. Structural Biology From Molecules to Cells]**

Catalog Number: 1728

*Stephen C. Harrison (Medical School)*

*Half course (spring term). Hours to be arranged.*

Imaging of molecules and of molecular localization in cells, including x-ray and electron crystallography, electron microscopy of single molecules, and high-resolution light microscopy. Lectures and student presentations of selected papers from the literature.

*Note:* Expected to be given in 2006–07.

**[Biophysics 205. Computational and Functional Genomics](#)**

Catalog Number: 6777 Enrollment: Limited to 20.

*Frederick P. Roth (Medical School), Martha L. Bulyk (Medical School), and Shamil R. Sunyaev (Medical School)*

*Half course (spring term). M., W., 3:30–5. EXAM GROUP: 8, 9*

Experimental functional genomics, computational prediction of gene function, and properties and models of complex biological systems. The course will primarily involve critical reading and discussion rather than lectures.

*Prerequisite:* Molecular Biology (BS52 or equivalent), solid understanding of basic probability and statistics.



### **Biophysics 242r. Special Topics in Biophysics**

Catalog Number: 6011

*James M. Hogle (Medical School), John E. Dowling (FAS, Medical School), and members of the Committee*

*Half course (spring term). Tu., Th., 3–5. EXAM GROUP: 17, 18*

*This year's focus will be on Systems Neuroscience.*

*Note: Weekly lecture with weekly discussion sections.*

### ***Cross-listed Courses***

**Applied Mathematics 201. Physical Mathematics I**

**Applied Mathematics 202. Physical Mathematics II**

**BCMP 200. Molecular Biology**

**BCMP 201. Proteins: Structure, Function and Catalysis**

**[BCMP 228. Macromolecular NMR]**

**Cell Biology 201. Molecular Biology of the Cell**

**[Cell Biology 211b. Growth Factors and Signal Transduction]**

**Chemical Biology 2100 (formerly Biophysics 201). Organic Chemistry for Biologists**

**[Chemistry 163. Frontiers in Biophysics]**

**\*Chemistry 242. Quantum Mechanics I**

**\*Chemistry 270 (formerly Chemistry 170). Chemical Biology**

**[\*Chemistry 280 (formerly Chemistry 180). Macromolecular Structure and Function]**

**Genetics 201. Principles of Genetics**

**[MCB 212. Topics in Biophysics]**

**Microbiology 200. Molecular Microbiology and Pathogenesis**

**\*Microbiology 205. Mechanisms of Microbial Pathogenesis**

**Neurobiology 200. Introduction to Neurobiology**

**Neurobiology 204. Neurophysiology of Central Circuits**

**\*Neurobiology 221. Molecular Neurobiology**

**Statistics 215. Fundamentals of Computational Biology**

### ***Graduate Courses of Reading and Research***

**\*Biophysics 300. Introduction to Laboratory Research**

Catalog Number: 7509

*James M. Hogle (Medical School) 2943 and members of the Committee*

*Half course (fall term; repeated spring term). M., W., F., at 4:30.*

*Introductory lectures by associated Biophysics faculty members. Lectures accompanied by three periods of instruction in laboratories of structural biology, cell and membrane biophysics, molecular genetics and development, neurobiology, bioinformatics, and physical biochemistry. Students normally spend laboratory periods in different fields.*

**\*Biophysics 303. NMR Studies of Macromolecular Structure and Function**

Catalog Number: 6135

*Gerhard Wagner (Medical School) 2626*



**\*Biophysics 309. Motile Behavior of Bacteria**

Catalog Number: 2070

*Howard C. Berg 1377 (on leave fall term)*

**\*Biophysics 311. Digital Computer Applications in Biophysics**

Catalog Number: 7606

*William H. Bossert 1049*

**\*Biophysics 314. Structure of Viruses and Viral Proteins**

Catalog Number: 0687

*James M. Hogle (Medical School) 2943*

**\*Biophysics 315. Structural Molecular Biology**

Catalog Number: 2805

*Stephen C. Harrison (Medical School) 3597*

**\*Biophysics 317. Biophysical Aspects of the Visual System**

Catalog Number: 4770

*John E. Dowling 3545*

**\*Biophysics 318. Mechanisms of Circadian Rhythms, Bioluminescence**

Catalog Number: 4699

*J. Woodland Hastings 1311*

**\*Biophysics 321. Molecular and Mechanical Analysis of Chromosomes**

Catalog Number: 7297

*Nancy Kleckner 4697*

**\*Biophysics 322. Theoretical Studies of the Structure, Functions, and Dynamics of Molecules of Biological Interest**

Catalog Number: 6525

*Martin Karplus 1361*

**\*Biophysics 323. Molecular Oncology**

Catalog Number: 8284

*Edward E. Harlow (Medical School) 2863*

**\*Biophysics 327. Molecular Genetics**

Catalog Number: 4202

*Frederick Ausubel (Medical School) 4639*

**\*Biophysics 329. Computational and Functional Genomics**

Catalog Number: 4437

*George M. Church (Medical School) 1608*



**\*Biophysics 332. Function of Neuronal Circuits**

Catalog Number: 5444

*Markus Meister 3007*

**\*Biophysics 333. Topics in Biophysics and Molecular Biology**

Catalog Number: 0196

*Brian Seed (Medical School) 7619*

**\*Biophysics 335. Gene Expression**

Catalog Number: 3602

*Tom Maniatis 7231*

**\*Biophysics 337. Membrane Structure and Function**

Catalog Number: 1800

*Keith W. Miller (Medical School) 4124*

**\*Biophysics 338. Redox Signaling and Repair of Oxidative DNA Damage**

Catalog Number: 4755

*Bruce F. Dimple (Public Health) 7853*

**\*Biophysics 340. Probing Polymers with Nanopores**

Catalog Number: 7506

*Daniel Branton 4139*

**\*Biophysics 341. Structure and Function of Ligand-Gated Ion Channels**

Catalog Number: 7567

*Jonathan B. Cohen (Medical School) 1120*

**\*Biophysics 343. Theoretical Protein Science, Bioinformatics, Computational Chemistry**

Catalog Number: 6947

*Eugene I. Shakhnovich 3147*

**\*Biophysics 344. Directed Evolution and Design of Simple Cellular Systems**

Catalog Number: 6277

*Jack Szostak (Medical School) 7096*

**\*Biophysics 346. Biofilm Dynamics**

Catalog Number: 5538

*Roberto G. Kolter (Medical School) 7727*

**\*Biophysics 347. Membrane Dynamics; Membrane Structure**

Catalog Number: 5516

*David E. Golan (Medical School) 1558*





**\*Biophysics 348. Protein Kinases, Reversible Protein Phosphorylation**

Catalog Number: 4964

*Raymond L. Erikson 7506 (on leave fall term)*

**\*Biophysics 349. Structural Biochemistry and Cell Biology of Intracellular Membrane Traffic**

Catalog Number: 4487

*Tomas Kirchhausen (Medical School) 1155*

**\*Biophysics 351. Signal Transduction**

Catalog Number: 3848

*Lewis C. Cantley (Medical School) 1287*

**\*Biophysics 352. Structure and Mechanism of DNA Replication and Repair Enzymes**

Catalog Number: 2914

*Thomas E. Ellenberger (Medical School) 1643*

**\*Biophysics 353. Molecular Genetics of Development**

Catalog Number: 5016

*Gary B. Ruvkun (Medical School) 1366*

**\*Biophysics 354. Structural Biology and Cancer Drug Discovery**

Catalog Number: 4420

*Gregory L. Verdine 1980*

**\*Biophysics 355. Chemical Genetics and Genomics**

Catalog Number: 3035

*Stuart L. Schreiber 2166*

**\*Biophysics 356. Structure and Activity of Bacterial Toxins**

Catalog Number: 6886

*R. John Collier (Medical School) 7972*

**\*Biophysics 360. Enzymatic Mechanisms and Antibiotic Biosynthesis**

Catalog Number: 7053

*Christopher T. Walsh (Medical School) 2036*

**\*Biophysics 361. Rational Drug Design; Biomaterials Science; Biophysics**

Catalog Number: 7080

*George M. Whitesides 7447*

**\*Biophysics 362. Molecular Physiology of Ion Channels**

Catalog Number: 3784

*Gary I. Yellen (Medical School) 3268*



**\*Biophysics 363. Biophysics of Receptor-Ligand Interactions**

Catalog Number: 8687

*Stephen C. Blacklow (Medical School) 1462*

**\*Biophysics 364. Systems Cell Biology**

Catalog Number: 5528

*Pamela A. Silver (Medical School) 1595*

**\*Biophysics 365. Visual Processing in Primates**

Catalog Number: 8145

*John A. Assad (Medical School) 2985*

**\*Biophysics 366. Imaging, Optics, and Biology**

Catalog Number: 2877

*David E. Clapham (Medical School) 2987*

**\*Biophysics 367. Structure Biology of Cytoplasmic Signal Transduction**

Catalog Number: 5512

*Michael J. Eck (Medical School) 1739*

**\*Biophysics 368. Experimental Condensed Matter Physics**

Catalog Number: 1400

*Jene A. Golovchenko 1986 (on leave spring term)*

**\*Biophysics 369. Organic Chemistry and Chemical Biology of Molecular Evolution**

Catalog Number: 6337

*David R. Liu 2717*

**\*Biophysics 370. Cytoskeleton Dynamics; Mitosis and Cell Locomotion; Small Molecule Inhibitors**

Catalog Number: 8034

*Timothy J. Mitchison (Medical School) 3713*

**\*Biophysics 371. Mechanisms of Synaptic Transmission and Plasticity**

Catalog Number: 2326

*Venkatesh N. Murthy 2424*

**\*Biophysics 372. Protein Transport Across the ER Membrane**

Catalog Number: 6922

*Tom Rapoport (Medical School) 1815*

**\*Biophysics 373. Computational Molecular Biology**

Catalog Number: 5267

*Frederick P. Roth (Medical School) 3912*



**\*Biophysics 374. High-Resolution Electron Microscopy**

Catalog Number: 8225

*Thomas Walz (Medical School) 3778*

**\*Biophysics 375. Single-Molecule Biophysics**

Catalog Number: 7900

*Xiaoliang Sunney Xie 2290*

**\*Biophysics 376. Functional and Computational Genomics Studies of Transcription Factors and Cis Regulatory Elements**

Catalog Number: 2254

*Martha L. Bulyk (Medical School) 4259*

**\*Biophysics 377. Statistical Theory and Inference for Stochastic Processes: With Applications to Bioinformatics**

Catalog Number: 4768

*Jun S. Liu 3760*

**\*Biophysics 378. Structural and Cellular Biology of Insulin Signal Transduction**

Catalog Number: 4856

*Steven E. Shoelson (Medical School) 3951*

**\*Biophysics 379. Theoretical Population Genetics**

Catalog Number: 2274

*John R. Wakeley 5680*

**\*Biophysics 380. Microarray Data: Issues and Challenges**

Catalog Number: 4402

*James M. Hogle (Medical School) 2943*

**\*Biophysics 381. Single-Molecule Biophysics**

Catalog Number: 3046

*Xiaowei Zhuang 3991*

**\*Biophysics 382. Regulation of Synaptic Transmission and Dendritic Function in the Mammalian Brain**

Catalog Number: 6116

*Bernardo L. Sabatini (Medical School) 4300*

**\*Biophysics 384. NMR Spectroscopy on Membrane-associated Proteins and Peptides**

Catalog Number: 4531

*James J. Chou (Medical School) 4950*

**\*Biophysics 385. Small Molecule Signaling, Biosynthesis, and Drug Discovery**

Catalog Number: 8378

*Jon Clardy (Medical School) 4667*



**\*Biophysics 386. Synaptic Plasticity and Neuronal Networks**

Catalog Number: 3012

*Florian Engert 4290*

**\*Biophysics 387. Structural Studies of the Stereochemistry of Signaling and Transport through Biological Membranes**

Catalog Number: 6869

*Rachelle Gaudet 4413*

**\*Biophysics 388. Structural Studies of Nucleo-Protein Assemblies**

Catalog Number: 1543

*David Jeruzalmi 4528*

**\*Biophysics 389. Chemical Biology and Systems Biology**

Catalog Number: 4245

*Gavin MacBeath 4347*

**\*Biophysics 390. Regulation of Mitosis**

Catalog Number: 2157

*Andrew W. Murray 3765*

**\*Biophysics 391. Computational Methods in Genetics, Genomics and Proteomics**

Catalog Number: 7043

*Shamil R. Sunyaev (Medical School) 4671*

**\*Biophysics 392. Biophysics of Mechanosensation**

Catalog Number: 2687

*David P. Corey (Medical School) 1345*

**\*Biophysics 393. The Mechanics and Regulation of Mitosis**

Catalog Number: 6759

*David Pellman (Medical School) 3702*

**\*Biophysics 394. Experimental Biophysics**

Catalog Number: 7138

*Mara Prentiss 2741 (on leave spring term)*

**\*Biophysics 395. Biophysics of Cell Adhesion and Vascular Shear Flow**

Catalog Number: 3918

*Timothy A. Springer (Medical School) 6145*

**\*Biophysics 396. Behavioral Neuroscience and Neurophysiology**

Catalog Number: 0966

*Aravinthan D. T. Samuel 4625*



**\*Biophysics 397. Research in Integrin Signaling, Cytoskeleton, and Control of Angiogenesis**

Catalog Number: 2982

*Donald E. Ingber (Medical School) 2832*

**\*Biophysics 398. Single-Molecule Novel Fluorescence and Nano-Manipulation Studies of Protein-Protein and Protein-Nucleic Acid Interactions**

Catalog Number: 2547

*Antoine van Oijen (Medical School) 5084*

## Biostatistics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Higher Degrees in Public Health Sciences*

James H. Ware, Frederick Mosteller Professor of Biostatistics (*Public Health*) (*Chair*)

Bruce F. Demple, Professor of Toxicology (*Public Health*)

Thomas O. Fox, Associate Professor of Neuroscience (*Medical School*)

Laurie H. Glimcher, Professor of Medicine (*Medical School*) and Irene Heinz Given Professor of Immunology (*Public Health*)

J. Woodland Hastings, Paul C. Mangelsohn Professor of Natural Sciences

Stephen W. Lagakos, Henry Pickering Walcott Professor of Biostatistics (*Public Health*)

Nan Laird, Professor of Biostatistics (*Public Health*)

Xiao-Li Meng, Professor of Statistics

Carl N. Morris, Professor of Statistics (*on leave spring term*)

Dyann F. Wirth, Professor of Tropical Public Health (*Public Health*)

#### *Faculty of the Subcommittee on the Degree of Doctor of Philosophy in Biostatistics*

Stephen W. Lagakos, Henry Pickering Walcott Professor of Biostatistics (*Public Health*) (*Chair*)

Nan Laird, Professor of Biostatistics (*Public Health*)

Xiao-Li Meng, Professor of Statistics

Carl N. Morris, Professor of Statistics (*on leave spring term*)

James H. Ware, Frederick Mosteller Professor of Biostatistics (*Public Health*)

#### *Other Faculty Offering Instruction in Biostatistics in Public Health*

Rebecca Aubrey Betensky, Associate Professor of Biostatistics (*Public Health*)

Tianxi Cai, Assistant Professor of Biostatistics (*Public Health*)

Paul J. Catalano, Assistant Professor of Biostatistics (*Public Health*)



Brent Andrew Coull, Assistant Professor of Biostatistics (*Public Health*)  
Roger B. Davis, Associate Professor of Biostatistics (*Public Health*)  
Victor Gerard DeGruttola, Professor of Biostatistics (*Public Health*)  
Gregory DiRienzo, Assistant Professor of Biostatistics (*Public Health*)  
Dianne Madelyn Finkelstein, Associate Professor of Biostatistics (*Public Health*)  
Garrett M. Fitzmaurice, Associate Professor of Biostatistics (*Public Health*)  
Kimberlee Gauvreau, Assistant Professor of Biostatistics (*Public Health*)  
Richard D. Gelber, Professor of Biostatistics (*Public Health*)  
Rebecca S. Gelman, Associate Professor of Biostatistics (*Public Health*)  
Robert C. Gentleman, Associate Professor of Biostatistics (*Public Health*)  
Robert J. Glynn, Associate Professor of Biostatistics (*Public Health*)  
Els Goetghebeur, Adjunct Associate Professor of Biostatistics (*Public Health*)  
Robert James Gray, Professor of Biostatistics (*Public Health*)  
David P. Harrington, Professor of Biostatistics (*Public Health*)  
Chengcheng Hu, Assistant Professor of Biostatistics (*Public Health*)  
Michael David Hughes, Professor of Biostatistics (*Public Health*)  
Hongyu Jiang, Assistant Professor of Biostatistics (*Public Health*) (*on leave 2005-06*)  
Peter Kraft, Assistant Professor of Epidemiology (*Public Health*)  
Karen M. Kuntz, Associate Professor of Health Decision Science (*Public Health*)  
Christoph Lange, Assistant Professor of Medicine (*Medical School*) and Assistant Professor of Biostatistics (*Public Health*)  
Nicholas T. Lange, Associate Professor of Biostatistics (*Public Health*)  
Mei-Ling Ting Lee, Associate Professor of Medicine (*Medical School*)  
Cheng Li, Assistant Professor of Biostatistics (*Public Health*)  
Yi Li, Associate Professor of Biostatistics (*Public Health*)  
Xihong Lin, Professor of Biostatistics (*Public Health*)  
Jun S. Liu, Professor of Statistics  
Xiaole Shirley Liu, Assistant Professor of Biostatistics (*Public Health*)  
Donna S. Neuberg, Lecturer on Biostatistics (*Public Health*)  
Sharon-Lise T. Normand, Professor of Health Care Policy (*Medical School, Public Health*)  
Endel J. Orav, Associate Professor of Biostatistics (*Public Health*)  
Alexander Ozonoff, Adjunct Assistant Professor of Biostatistics (*Public Health*)  
Christopher J. Paciorek, Assistant Professor of Biostatistics (*Public Health*)  
Marcello Pagano, Professor of Statistical Computing (*Public Health*)  
John Quackenbush, Professor of Computational Biology and Bioinformatics (*Public Health*)  
James M. Robins, Professor of Epidemiology and Biostatistics (*Public Health*)  
Bernard Rosner, Professor of Medicine (*Medical School*)  
Andrea Gloria Rotnitzky, Senior Lecturer on Biostatistics (*Public Health*)  
Louise M. Ryan, Professor of Biostatistics (*Public Health*)  
David A. Schoenfeld, Professor of Biostatistics (*Public Health*)  
Mei-Chiung Shih, Assistant Professor of Biostatistics (*Public Health*)  
Donna Lynn Spiegelman, Professor of Epidemiologic Methods (*Public Health*)  
Kenneth E. Stanley, Lecturer on Statistics (*FAS*) and Lecturer on Biostatistics (*Public Health*)  
Marcia Anne Testa Simonson, Senior Lecturer on Biostatistics (*Public Health*)  
Molin Wang, Assistant Professor of Biostatistics (*Public Health*)  
Wei Wang, Assistant Professor of Biostatistics (*Public Health*)



Lee-Jen Wei, Professor of Biostatistics (*Public Health*)  
Milton C. Weinstein, Henry J. Kaiser Professor of Health Policy and Management and Biostatistics (*Public Health*) and Professor of Medicine (*Medical School*)  
Paige L. Williams, Assistant Professor of Biostatistics (*Public Health*)  
David Wypij, Associate Professor in the Department of Biostatistics (*Public Health*)  
Grace Wyshak, Associate Professor of Biostatistics and Population and International Health (*Public Health*)  
Marvin Zelen, Professor of Statistical Science (*Public Health*)

***Primarily for Graduates***

Further details about the course descriptions below can be found in their entirety at [www.biostat.harvard.edu/courses/course.html](http://www.biostat.harvard.edu/courses/course.html)

**\*Biostatistics 230. Probability Theory and Applications I**

Catalog Number: 6183

*Marcello Pagano (Public Health)*

*Half course (fall term). M., W., 8:30–10:20 and one two-hour lab each week.*

Axiomatic foundations of probability, independence, conditional probability, joint distributions, transformations, moment generating functions, characteristic functions, moment inequalities, sampling distributions, modes of convergence and their interrelationships, laws of large numbers, central limit theorem, and stochastic processes.

*Note:* Offered jointly with the School of Public Health as BIO230.

**\*Biostatistics 231. Statistical Inference I**

Catalog Number: 8773

*Victor Gerard DeGruttola (Public Health)*

*Half course (spring term). M., W., 10:30–12:20 and a 1.5-hour lab each week.*

Exponential families, sufficiency, ancillarity, completeness, method of moments, maximum likelihood, unbiased estimation, Rao-Blackwell and Lehmann-Scheffe theorems, information inequality, Neyman-Pearson theory, likelihood ratio, score and Wald tests, uniformly and locally most powerful tests, asymptotic relative efficiency.

*Note:* Offered jointly with the School of Public Health as BIO231.

*Prerequisite:* Biostatistics 230 or signature of instructor required.

**\*Biostatistics 232. Methods I**

Catalog Number: 0131

*Brent Andrew Coull (Public Health)*

*Half course (fall term). M., W., 1:30–3:20 and one two-hour lab each week.*

Introductory course in the analysis of Gaussian and categorical data. The general linear regression model, ANOVA, robust alternatives based on permutations, model building, resampling methods (bootstrap and jackknife), contingency tables, exact methods, logistic regression.

*Note:* Offered jointly with the School of Public Health as BIO232.

*Prerequisite:* Biostatistics 222 or signature of instructor required.



**\*Biostatistics 233. Methods II**

Catalog Number: 7804

*Robert James Gray (Public Health) and Lee-Jen Wei (Public Health)**Half course (spring term). M., W., 8:30–10:20 and a 1.5-hour lab each week.*

Intermediate course in the analysis of Gaussian, categorical, and survival data. The generalized linear model, Poisson regression, random effects and mixed models, comparing survival distributions, proportional hazards regression, splines and smoothing, the generalized additive model.

*Note:* Offered jointly with the School of Public Health as BIO233.*Prerequisite:* Biostatistics 232 or signature of instructor required.**[\*Biostatistics 235. Regression and Analysis of Variance]**

Catalog Number: 7549

*Andrea Gloria Rotnitzky (Public Health)**Half course (fall term). Hours to be arranged.*

An advanced course in linear models - regression and analysis of variance. Estimation (maximum likelihood and least squares) and inference (confidence intervals, hypothesis testing, analysis of residuals) are presented from a theoretical and data analysis perspective.

*Note:* Expected to be given in 2006–07. Offered jointly with the School of Public Health as BIO235.*Prerequisite:* Biostatistics 230 and Biostatistics 232. Background in matrix algebra and linear regression required.**Biostatistics 244. Analysis of Failure Time Data**

Catalog Number: 2140

*Stephen W. Lagakos (Public Health)**Half course (fall term). M., W., 1:30–3:20 and one two-hour lab each week.*

Discusses the theoretical basis of concepts and methodologies associated with survival data and censoring, nonparametric tests, and competing risk models. Much of the theory is developed using counting processes and martingale methods.

*Note:* Offered jointly with the School of Public Health as BIO244.*Prerequisite:* Biostatistics 231 and Biostatistics 233.**Biostatistics 245. Analysis of Multivariate and Longitudinal Data**

Catalog Number: 3247

*Paige L. Williams (Public Health)**Half course (fall term). Tu., Th., 1:50–3:20 and one two-hour lab each week.*

The multivariate normal distribution, Hotelling's  $T^2$ , MANOVA, repeated measures, the multivariate linear model, random effects and growth curve models, generalized estimating equations, multivariate categorical outcomes, missing data, computational issues for traditional and new methodologies.

*Note:* Offered jointly with the School of Public Health as BIO245.*Prerequisite:* Biostatistics 231 and Biostatistics 235.**[\*Biostatistics 247. Design of Scientific Investigations]**

Catalog Number: 3723



*Michael David Hughes (Public Health)*

*Half course (spring term). Hours to be arranged.*

Sample size considerations, basic principles of experimental design (randomization, replication, and balance), block designs, factorial experiments, response surface modeling, optimal design, clinical trials, adaptive, and sequential designs.

*Note:* Expected to be given in 2006–07. Offered jointly with the School of Public Health as BIO247. Offered in alternate years. Minimum enrollment of 10 students required.

*Prerequisite:* Biostatistics 235.

### **\*Biostatistics 248. Advanced Statistical Computing**

Catalog Number: 6420

*Paul J. Catalano (Public Health)*

*Half course (spring term). M., W., 8:30–10:20.*

Computer arithmetic, matrix algebra, numerical optimization with application to MLEs and GEEs, spline smoothing, numerical integration, random number generation, simulation methods, Gibbs sampling, bootstrap methods, missing data and EM, imputation, and data augmentation algorithms.

*Note:* Offered jointly with the School of Public Health as BIO248.

*Prerequisite:* Students should be proficient with C or Fortran programming. Biostatistics 235 or signature of instructor required.

### **[\*Biostatistics 249. Bayesian Methodology in Biostatistics]**

Catalog Number: 8841

*Sharon-Lise T. Normand (Medical School, Public Health)*

*Half course (fall term). Hours to be arranged.*

Bayes theorem, decision theory, general principles (likelihood, exchangeability, de Finetti's theorem), prior distributions, inference (exact, normal approximations, non-normal approximations), computation (Monte Carlo, convergence diagnostics), model diagnostics (Bayes factors, predictive ordinates), design, and empirical Bayes methods.

*Note:* Expected to be given in 2006–07. Offered jointly with the School of Public Health as BIO249. Offered in alternate years.

*Prerequisite:* Biostatistics 231 and Biostatistics 232, or signature of instructor required.

### **\*Biostatistics 250. Probability Theory and Applications II**

Catalog Number: 5076

*Andrea Gloria Rotnitzky (Public Health)*

*Half course (spring term). M., W., 1:30–3:20.*

Basic set theory, measure theory, Riemann-Stieltjes and Lebesgue integration, conditional probability, conditional expectation (projection), martingales, Radon-Nikodym derivative, product measure and Fubini's Theorem, limit theorems on sequences of random variables, stochastic processes, weak convergence.

*Note:* Offered jointly with the School of Public Health as BIO250.

*Prerequisite:* Biostatistics 230 and Biostatistics 232, or signature of instructor required.

### **Biostatistics 251. Statistical Inference II**

Catalog Number: 5280



*Tianxi Cai (Public Health)*

*Half course (spring term). Tu., Th., 8:30–10:20 and one two-hour lab each week.*

Advanced topics in statistical inference. Limit theorems, multivariate delta method, properties of maximum likelihood estimators, saddle point approximations, asymptotic relative efficiency, robust and rank-based procedures, resampling methods, nonparametric curve estimation.

*Note:* Offered jointly with the School of Public Health as BIO251.

*Prerequisite:* Biostatistics 231.

**[\*Biostatistics 277. Computational Biology]**

Catalog Number: 1337

*Cheng Li (Public Health)*

*Half course (spring term). Hours to be arranged.*

A graduate level introduction to computational molecular biology for students with quantitative background. The topics include: review of biology, gene expression microarray, sequence and cis-regulatory analysis, special topics and class project presentations.

*Note:* Expected to be given in 2006–07. Cannot be taken Pass/Fail. Offered jointly with the School of Public Health as BIO277.

*Prerequisite:* Biostatistics 231 or signature of instructor required.

**Biostatistics 280. Introduction to Computational Molecular Biology**

Catalog Number: 2116

*Xiaole Shirley Liu (Public Health)*

*Half course (spring term). M., W., 3:30–5:20 and two 1.5-hour labs each week.*

Graduate entry level course to basic problems, algorithms, and data analysis methods in computational biology. Sequence alignment, gene finding and annotation, microarray analysis, gene regulatory network, RNA/protein structure prediction, proteomics and pharmacogenetics.

*Note:* Offered jointly with the School of Public Health as BIO280.

***Graduate Courses of Reading and Research***

**\*Biostatistics 350. Research**

Catalog Number: 0406

*Members of the Department*

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the departments.

## Business Studies

**AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**



***Faculty of the Committee on Higher Degrees in Business Studies***

Amy C. Edmondson, Professor of Business Administration (*Business School*) (*Chair*)

The Standing Committee on Higher Degrees in Business Studies is a joint committee consisting of members from both the Harvard Business School (HBS) and the Faculty of Arts and Sciences (FAS). The committee is composed of the members of the following subcommittees:

***Subcommittee on the Degree of Doctor of Philosophy in Business Economics***

Jerry R. Green, John Leverett Professor and David A. Wells Professor of Political Economy (*Chair*)

George P. Baker, MBA Class of 1966 Professor of Business Administration (*Business School*)

John Y. Campbell, Morton L. and Carole S. Olshan Professor of Economics

Amy C. Edmondson, Professor of Business Administration (*Business School*) (*ex-officio*)

Joshua Lerner, Jacob H. Schiff Professor of Investment Banking (*Business School*)

Ariel Pakes, Steven McArthur Heller Professor of Economics (*on leave 2005-06*)

Alvin E. Roth, George Gund Professor of Economics (*FAS*) and George Gund Professor of Economics and Business Administration (*Business School*)

David S. Scharfstein, Edmund Cogswell Converse Professor of Finance and Banking (*Business School*)

Jeremy C. Stein, Moise Y. Safra Professor of Economics

Dennis A. Yao, Professor of Business Administration (*Business School*)

***Subcommittee on the Degree of Doctor of Philosophy in Information Technology and Management***

H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering (*Co-chair*)

Stefan Thomke, Professor of Business Administration (*Business School*) (*Co-Chair*)

Carliss Y. Baldwin, William L. White Professor of Business Administration (*Business School*)

Amy C. Edmondson, Professor of Business Administration (*Business School*) (*ex-officio*)

Lee Fleming, Associate Professor of Business Administration (*Business School*)

John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics

Joshua Lerner, Jacob H. Schiff Professor of Investment Banking (*Business School*)

David C. Parkes, John L. Loeb Associate Professor of the Natural Sciences

Avrom J. Pfeffer, Associate Professor of Computer Science on the Gordon McKay Endowment

Michael O. Rabin, Thomas J. Watson, Sr. Professor of Computer Science

Jan W. Rivkin, Associate Professor of Business Administration (*Business School*)

Margo I. Seltzer, Harvard College Professor and Herchel Smith Professor of Computer Science

Michael D. Smith, Gordon McKay Professor of Computer Science and Electrical Engineering (*on leave spring term*)

Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science

***Subcommittee on the Degree of Doctor of Philosophy in Organizational Behavior***



Teresa M. Amabile, Edsel Bryant Ford Professor of Business Administration (*Business School*)  
Max H. Bazerman, Jesse Isidor Straus Professor of Business Administration (*Business School*)  
Theodore C. Bestor, Professor of Anthropology  
Amy C. Edmondson, Professor of Business Administration (*Business School*)  
J. Richard Hackman, Edgar Pierce Professor of Social and Organizational Psychology  
Jay W. Lorsch, Louis E. Kirstein Professor of Human Relations (*Business School*)  
Michael Tushman, Paul R. Lawrence MBA Class of 1942 Professor of Business Administration (*Business School*)  
Daniel M. Wegner, Professor of Psychology (*on leave spring term*)  
Christopher Winship, Diker-Tishman Professor of Sociology

### ***Other Faculty Offering Instruction in Business Studies***

Clayton M. Christensen, Robert and Jane Cizik Professor of Business Administration (*Business School*)  
Robin J. Ely, Associate Professor of Business Studies (*Business School*)  
Giovanni Gavetti, Assistant Professor of Business Administration (*Business School*)  
Clark G. Gilbert, Assistant Professor of Business Administration (*Business School*)  
John T. Gourville, Associate Professor of Business Administration (*Business School*)  
Geoffrey Jones, Professor of Business Administration (*Business School*)  
Michael D. Kimbrough, Assistant Professor of Business Administration (*Business School*)  
Gary Pisano, Harry E. Figgie Jr. Professor of Business Administration (*Business School*)  
Mikolaj J. Piskorski, Assistant Professor of Business Administration (*Business School*)  
Ananth Raman, UPS Foundation Professor of Business Logistics (*Business School*)  
Jordan I. Siegel, Assistant Professor of Business Administration (*Business School*)  
Noel Watson, Assistant Professor of Business Administration (*Business School*)

PhD programs in Business Economics, Organizational Behavior, and Information Technology and Management are administered by the Standing Committee on Higher degrees in Business Studies consisting of members from both Harvard Business School (HBS) and the Faculty of Arts and Sciences. The programs are intended for students who wish to enter careers in scholarship and advanced research.

### ***Primarily for Graduates***

#### **Business Studies 2000ab. Management and Markets: Human Behavior and Administration**

Catalog Number: 3946 Enrollment: Limited to 36.

*George P. Baker (Business School) and members of the Business School Faculty*

*Half course (fall term). M., W., F., 12–1:30. EXAM GROUP: 5, 6*

Examines classic works in administrative theory, recent work on organizational processes, the management of change and the management of technology. The course will cover theories of human motivation and human interaction from numerous perspectives.

*Note:* Offered jointly with the Business School as 4001.

#### **Business Studies 2000cd. Management and Markets: Organizational Economics and Finance**



Catalog Number: 5800 Enrollment: Limited to 36.

*George P. Baker (Business School) and members of the Business School Faculty*

*Half course (spring term). M., W., F., 12–1:30. EXAM GROUP: 5, 6*

Examines the foundations of corporate strategy and organizational design as informed by industrial and organizational economies. In the second part, we study the functioning of modern capital markets, and the interactions of firms within this market.

*Note:* Offered jointly with the Business School as 4003.

### **Business Studies 2070. Design of Field Research Methods**

Catalog Number: 8793

*Amy C. Edmondson (Business School)*

*Half course (spring term). M., 2:30–5:30. EXAM GROUP: 7, 8, 9*

Field research involves collecting original data (qualitative or quantitative) in field sites. Specific topics covered include variance versus process models, blending qualitative and quantitative data collecting, and analyzing different kinds of data.

*Note:* Offered jointly with the Business School as 4070.

*Prerequisite:* Previous course work in research methods. Students are expected to understand basic principles of statistical analysis as a foundation for engaging in discussions about effective field research.

### **Business Studies 2110. The Foundations of Strategy**

Catalog Number: 2784 Enrollment: Limited to 36.

*Giovanni Gavetti (Business School)*

*Half course (spring term). F., 1:30–4:30. EXAM GROUP: 6, 7, 8, 9*

Examines the application of contemporary thinking about microeconomics and, particularly, industrial organization, to business strategy. The perspective taken, however, emphasizes issues associated with business administration and research in that area.

*Note:* Offered jointly with the Business School as 4110.

*Prerequisite:* Economics 2010a, or the equivalent.

### **Business Studies 2115. Theoretical Model-Building in the Social Sciences**

Catalog Number: 8740

*Dennis A. Yao (Business School)*

*Half course (spring term). W., 3–6. EXAM GROUP: 8, 9*

This course is an introduction to the craft of theoretical modeling. Modeling skills will be developed through a series of structured model-building exercises.

*Note:* Offered jointly with the Business School as 4115.

*Prerequisite:* Two semesters of microeconomics is recommended.

### **Business Studies 2250. Empirical Research in Financial Reporting and Analysis**

Catalog Number: 7941

*Michael D. Kimbrough (Business School)*

*Half course (spring term). Th., 2–5. EXAM GROUP: 16, 17, 18*

Designed to introduce fundamental research themes and methodologies used in empirical financial accounting research. Participants will become acquainted with the relevant literature through classroom discussions of assigned readings, paper summaries, problem sets, and





research proposals.

*Note:* Offered jointly with the Business School as 4250.

**Business Studies 2310. Policy and Management: Seminar**

Catalog Number: 9281 Enrollment: Limited to 36.

*Clayton M. Christensen (Business School) and Clark G. Gilbert (Business School)*

*Half course (fall term). Tu., 3–6. EXAM GROUP: 17, 18*

Course covers related literatures of policy formulation and implementation, organization development and learning, and governance, in the context of rapidly evolving fields such as the management of innovation and application of modern information technology.

*Note:* Offered jointly with the Business School as 4310.

**Business Studies 2330. Theoretical and Empirical Perspectives on Entrepreneurship**

Catalog Number: 8698

*Joshua Lerner (Business School)*

*Half course (spring term). Th., 2:30–5:30. EXAM GROUP: 16, 17, 18*

Involves a variety of literature regarding academic disciplines, readings primarily focus on discipline-oriented research from an economics, finance, and sociological perspective. Students are expected to complete two reports and a paper.

*Note:* Offered jointly with the Business School as 4350.

**Business Studies 2480. Operations Management**

Catalog Number: 5852

*Ananth Raman (Business School) and Noel Watson (Business School)*

*Half course (spring term). F., 2–4:30. EXAM GROUP: 7, 8, 9*

This course introduces students to the academic literature and current problems in operations management as well as classic Harvard Business Review articles that substantially affected the way managers thought about operations management.

*Note:* Offered jointly with the Business School as 4480.

**Business Studies 2540. The Management of Technological Innovation**

Catalog Number: 8573 Enrollment: Limited to 36.

*Gary Pisano (Business School)*

*Half course (fall term). Th., 3–6. EXAM GROUP: 17, 18*

Explores a range of topics and themes associated with technological innovation. Designed to provide doctoral students with a relatively comprehensive overview of the important streams of literature in the innovation field.

*Note:* Offered jointly with the Business School as 4540.

**[Business Studies 2600. Issues and Research in Marketing]**

Catalog Number: 7473

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*Half course (fall term). Hours to be arranged.*

Examines the wide range of issues addressed by academic researchers in marketing and consumer behavior. A primary goal of the course is to understand how academic research





develops and evolves over time.

*Note:* Expected to be given in 2006–07. Offered jointly with the Business School as 4600.

### **Business Studies 2630. Consumer Behavior**

Catalog Number: 5513 Enrollment: Limited to 36.

*John T. Gourville (Business School)*

*Half course (spring term). Th., 11:30–2:30. EXAM GROUP: 13, 14*

Provides overview in the field of consumer behavior and decision making. Drawing from research in economics, psychology, and sociology, the course will cover topics including persuasion and attitude formation, emotion and affect, learning and memory, and behavioral decision making.

*Note:* Offered jointly with the Business School as 4630.

### **Business Studies 2720. Economics of International Business**

Catalog Number: 7141

*Jordan I. Siegel (Business School)*

*Half course (fall term). F., 2–4:30. EXAM GROUP: 7, 8, 9*

Examines the micro-economic underpinnings of firm-level issues internationally. The first part consists theoretical and empirical issues. The second part examines the first part's analysis to a specific context.

*Note:* Offered jointly with the Business School as 4720.

### **Business Studies 2810. Business History Seminar**

Catalog Number: 3157 Enrollment: Limited to 36.

*Geoffrey Jones (Business School)*

*Half course (fall term). M., 3:15–6:15. EXAM GROUP: 8, 9*

Topic to be announced.

*Note:* Offered jointly with the Business School as 4810.

### **[Business Studies 2825. Innovation and Organizations]**

Catalog Number: 1002

*Michael Tushman (Business School)*

*Half course (spring term). Hours to be arranged.*

Topics include innovation patterns as product/service classes evolve; relations between organization designs and innovation outcomes; and the role of senior teams in shaping organizational designs and organizational fate as product classes evolve.

*Note:* Expected to be given in 2006–07. Offered jointly with the Business School as 4825.

### **[Business Studies 2860. Race and Gender Relations in Organizations]**

Catalog Number: 1346

*Robin J. Ely (Business School)*

*Half course (spring term). Hours to be arranged.*

Covers the nature of race, gender and identity; inequality; the impact of race, sex, and group composition on well-being and performance; the role of sexuality at work; and organizational change.

*Note:* Expected to be given in 2006–07. Offered jointly with the Business School as 4860.



**Business Studies 2885. Social Exchange Theory in Organizational Contexts**

Catalog Number: 5859

*Mikolaj J. Piskorski (Business School)*

*Half course (spring term). Th., 3–6. EXAM GROUP: 17, 18*

Introduces social exchange theories and their applications in organizational contexts by examining tradition of social exchange theory in social psychology, sociology, and anthropology to establish framework linking network structures with inequality between social actors.

*Note: Offered jointly with the Business School as 4885.*

***Graduate Courses of Reading and Research***

**\*Business Studies 3000. Direction of Doctoral Dissertations**

Catalog Number: 6863

*Teresa M. Amabile (Business School) 1957, George P. Baker (Business School) 3834, Max H. Bazerman (Business School) 3835, John Y. Campbell 1230, Jerry R. Green 1539, J. Richard Hackman 1504, Paul M. Healy (Business School) 3838, Marco Iansiti (Business School) 4272, H. T. Kung 3155, Joshua Lerner (Business School) 1601, Jay W. Lorsch (Business School) 2007, Peter V. Marsden 1797, Ariel Pakes 1774 (on leave 2005-06), Joel Podolny (Business School) 4483, Jan W. Rivkin (Business School) 4839, Alvin E. Roth 564, Stefan Thomke (Business School) 4840, Michael Tushman (Business School) 4841, David M. Upton (Business School) 3913, and Daniel M. Wegner 3758 (on leave spring term)*

***Cross-listed Courses***

**\*Economics 2020a. Microeconomic Theory I**

**\*Economics 2020b. Microeconomic Theory II**

**Economics 2040. Experimental Economics**

**Economics 2056. Market Design**

**Economics 2665. The Economics of Organizations Workshop**

**Economics 2670. Organizational Economics**

**Economics 2723. Asset Pricing I**

**Economics 2724 (formerly Economics 2424). Finance Theory in Continuous Time**

**[Economics 2727. Topics in Empirical Corporate Finance]**

**[Economics 2730. Asset Pricing II]**

**\*Psychology 2650. Behavioral Approaches to Decision Making and Negotiation**

## Celtic Languages and Literatures

**AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**



***Faculty of the Department of Celtic Languages and Literatures***

Tomás Ó Cathasaigh, Henry L. Shattuck Professor of Irish Studies (*Chair and Director of Graduate Studies*)

Patrick K. Ford, Margaret Brooks Robinson Professor of Celtic Languages and Literatures (*fall term*) and Margaret Brooks Robinson Research Professor of Celtic Languages and Literatures (*spring term*) (*on leave fall term*)

Barbara L. Hillers, Assistant Professor of Celtic Languages and Literatures

Catherine McKenna, Margaret Brooks Robinson Professor of Celtic Languages and Literatures

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

***Primarily for Undergraduates***

**\*Celtic 91r. Supervised Reading and Research**

Catalog Number: 1323

*Members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Instruction and direction of reading on topics not treated in regular courses of instruction.

***For Undergraduates and Graduates***

**[Celtic 106. Folklore of Ireland]**

Catalog Number: 3966

*Barbara L. Hillers*

*Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6*

An introduction to the oral literature of Ireland. We read folk- and hero-tales, work-songs, and love-songs, fairy legends, charms and prayers--placing them within the context of daily life, belief, and performance. Themes include: understanding oral literature; the relationship of "art" and function; and women's folklore.

*Note:* Expected to be given in 2006–07. All texts are read in English translation.

**[Celtic 107. Early Irish History]**

Catalog Number: 7976

*Gene C. Haley*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

An introduction to the history of Ireland from the advent of Christianity, through the Viking incursions, to the Anglo-Norman conquest of 1167 A.D. Making use of such historical and pseudo-historical sources as the Irish annals, regnal lists, genealogies, laws, martyrologies and other hagiography; as well as archaeological and climatological evidence; the course examines major social, political, military, religious, and cultural developments in the so-called 'Celtic' Ireland.

*Note:* Expected to be given in 2006–07. No knowledge of Irish required; all texts are read in English translation.



### **Celtic 113. Gaelic Women's Poetry**

Catalog Number: 7517

*Barbara L. Hillers*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Explores the ways gender, genre, and tradition intersect in the poetic tradition of Gaelic Ireland and Scotland from the Middle Ages to today. After an excursion into early medieval literature, we focus on the work of women aristocrats, female genres of oral folk tradition, and contemporary poetry.

*Note:* Expected to be omitted in 2006–07. This course is of particular interest to students with a background in Irish or Scottish Gaelic, but no knowledge of either language is necessary. All texts are read in English translation.

### **Celtic 114. Early Irish Historical Tales**

Catalog Number: 0781

*Tomás Ó Cathasaigh*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

Introduction to early Irish story-material about legendary and historical persons and events. Attitudes to kingship and views of history in the tales are explored.

*Note:* Expected to be omitted in 2006–07. All texts are read in English translation.

### **[Celtic 124. Modern Irish Literature]**

Catalog Number: 7084

*Barbara L. Hillers*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

A survey of 20th-century prose and poetry in Irish, from its partisan beginnings to the work of acclaimed contemporary authors. We investigate a range of prose genres, focusing especially on the short story and tracing the development of poetry from the 1950s to today.

*Note:* Expected to be given in 2006–07. Knowledge of Irish helpful, but not required. All texts are read in English translation.

### **Celtic 128. Introduction to Modern Welsh**

Catalog Number: 4148

*Catherine McKenna and others*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Basic grammar, translation of simple contemporary Welsh writings, and practice of pronunciation and conversation.

*Note:* Expected to be omitted in 2006–07. It is suggested that this course be followed by Celtic 129r.

### **Celtic 129r. Intermediate Modern Welsh**

Catalog Number: 4694

*Catherine McKenna and others*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Further grammatical study, with continued pronunciation and conversation, and readings in contemporary Welsh literature.



*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Celtic 128 or permission of instructor.

**\*Celtic 130. Introduction to Scottish Gaelic**

Catalog Number: 1846 Enrollment: Limited to 15.

*Barbara L. Hillers*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

An introduction to the spoken and written language.

*Note:* Expected to be omitted in 2006–07. It is suggested that this course be followed by Celtic 131.

**\*Celtic 131. Intermediate Scottish Gaelic**

Catalog Number: 4542 Enrollment: Limited to 15.

*Barbara L. Hillers*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

A continuation of the fall term course.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Celtic 130 or equivalent.

**\*Celtic 132. Introduction to Modern Irish**

Catalog Number: 6725 Enrollment: Limited to 15.

*Barbara L. Hillers and others*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Introduction to spoken and written Irish.

*Note:* It is suggested that this course be followed by Celtic 133r.

**\*Celtic 133r. Intermediate Modern Irish**

Catalog Number: 6689 Enrollment: Limited to 15.

*Barbara L. Hillers and others*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Development of oral competence and writing skills.

*Prerequisite:* Celtic 132 or permission of instructor.

**Celtic 138. Narrative Traditions of Medieval Wales**

Catalog Number: 6480

*Catherine McKenna*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

An exploration of the Four Branches of the Mabinogi, Welsh Arthurian romances and tales, and the bardic lore associated with them, in the context of the literary culture of Wales in the twelfth through fourteenth centuries.

*Note:* Expected to be omitted in 2006–07. All texts are read in English translation.

**[Celtic 150. Celtic Paganism]**

Catalog Number: 6589

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*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*



A survey of the evidence relating to the beliefs, gods, cults, and druidic priest class of the pagan Celts, both continental and insular. Materials studied include the commentaries of Greek and Roman ethnographers, the archaeological record, and, in particular, the writings of the early Irish and Welsh themselves.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3686. All texts are read in English translation.

### **Celtic 151. The Literature of Medieval Celtic Christianity**

Catalog Number: 5560

*Catherine McKenna*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

A study of selected texts representative of early and medieval Christianity in Ireland and Wales, including monastic rules and penitentials, saints' lives, voyage and vision narratives, and lyric and bardic poetry.

*Note:* Expected to be omitted in 2006–07. All texts are read in English translation.

### **Celtic 160. Advanced Modern Irish**

Catalog Number: 0704

*Barbara L. Hillers and others*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Geared to the interests and aptitudes of the participants, this course enhances students' confidence in using Irish as a medium of oral and written communication and introduces them to the Gaelic literary tradition.

*Note:* Expected to be omitted in 2006–07. It is suggested that this course be followed by Celtic 161.

*Prerequisite:* Celtic 133r or permission of instructor.

### **[Celtic 161. Continuing Advanced Modern Irish]**

Catalog Number: 4421

*Barbara L. Hillers and others*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Continuation of the fall term course.

*Note:* Expected to be given in 2007–08. Contact department for additional information.

*Prerequisite:* Celtic 160 or permission of instructor.

### **[Celtic 182. Modern Welsh Literature]**

Catalog Number: 1653

*Catherine McKenna*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Readings in major works of prose and poetry from the 18th to the 20th century, including William Williams (Pantycelyn), Ann Griffiths, R. Williams Parry, Waldo Williams, Daniel Owen, Kate Roberts, Caradog Pritchard, and T. Rowland Hughes.

*Note:* Expected to be given in 2006–07. All works read in Welsh. Discussion in English.

### **[Celtic 184. The *Táin*]**

Catalog Number: 2150



*Tomás Ó Cathasaigh*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

A study of the exuberant Irish prose epic *Táin Bó Cuailnge* ('Cattle-Raid of Cooley').

*Note:* Expected to be given in 2006–07. Text read in English translation.

### ***Cross-listed Courses***

[English 161m. 20th-Century Irish Literature](#)

[Linguistics 158r. From Indo-European to Old Irish](#)

[Literature and Arts C-20. The Hero of Irish Myth and Saga](#)

[Literature and Arts C-22. European Culture in the Middle Ages]

[Medieval Studies 101. The Auxiliary Disciplines of Medieval History: Proseminar]

[Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy](#)

[Scandinavian 160br \(formerly Scandinavian 160b\). Old Norse Language, Literature, and Culture: Mythology](#)

### ***Primarily for Graduates***

[Celtic 200. Introduction to Old Irish](#)

Catalog Number: 8266

*Tomás Ó Cathasaigh*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

An introduction to the language of the eighth and ninth centuries, with elementary readings in prose texts.

*Note:* Expected to be omitted in 2006–07. It is suggested that this course be followed by Celtic 201.

[Celtic 201. Continuing Old Irish](#)

Catalog Number: 6073

*Tomás Ó Cathasaigh*

*Half course (spring term). M., F., at 2, W., at 11. EXAM GROUP: 4, 7*

Further grammatical study, with continued reading of saga texts.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Celtic 200 or permission of the instructor.

**[Celtic 204r. Readings in Early Irish Poetry]**

Catalog Number: 8493

*Tomás Ó Cathasaigh*

*Half course (fall term). M., W., (F.), at 2. EXAM GROUP: 7*

Readings in selected texts.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Celtic 200 or permission of the instructor.

**[Celtic 205r. Readings in Early Irish Prose]**

Catalog Number: 2705

*Tomás Ó Cathasaigh*





*Half course (spring term). M., W., (F.), at 2. EXAM GROUP: 7*

Readings in selected texts.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Celtic 200 or permission of the instructor.

**[Celtic 208. Early Irish Society]**

Catalog Number: 1359

*Tomás Ó Cathasaigh*

*Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5*

This course focuses on the institutional and conceptual framework of early Irish life. The evidence of the laws is considered in translation, and the literature is taken into account.

*Note:* Expected to be given in 2007–08.

**Celtic 222. Early Irish Manuscript Tradition**

Catalog Number: 1040

*Barbara L. Hillers*

*Half course (fall term). W., at 3. EXAM GROUP: 8*

An exploration of the contents and background of the most important manuscript codices, and a practical introduction to Irish palaeography.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* A knowledge of Irish and/or Latin is helpful.

**[Celtic 225a. Introduction to Middle Welsh]**

Catalog Number: 3960

*Catherine McKenna*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

Introduction to the language, leading to the reading of Middle Welsh prose texts.

*Note:* Expected to be given in 2006–07. It is suggested that this course be followed by Celtic 225b.

**[Celtic 225b. Continuing Middle Welsh]**

Catalog Number: 4167

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*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16*

Further grammatical studies with continued readings of Middle Welsh prose and poetry.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Celtic 225a or permission of instructor.

**Celtic 226r. Readings in Middle Welsh**

Catalog Number: 2796

*Catherine McKenna*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Readings in native tales, romance, and the poetry of the *cywyddwyr*.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Celtic 225b or permission of the instructor.



**Celtic 227. Seminar: Welsh Bardic Poetry**

Catalog Number: 2580

Catherine McKenna

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Readings from the *beirdd y tywysogion* and the *beirdd yr uchelwyr*; consideration of the social and political contexts of their poetry, its forms, and its relationship to other medieval European poetic traditions.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Knowledge of Welsh or permission of the instructor.

**[Celtic 230r. Sources for Medieval Welsh Culture and Society]**

Catalog Number: 3511

Catherine McKenna

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Readings in the chronicle of Elis Gruffydd. Ancillary sources, such as the Welsh *Brutiau* and genealogies, may be used as well.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Knowledge of Middle Welsh or permission of the instructor.

***Graduate Courses of Reading and Research***

**\*Celtic 300. Reading and Research**

Catalog Number: 5614

Barbara L. Hillers 3342, Catherine McKenna 5253, and Tomás Ó Cathasaigh 1224

**\*Celtic 305. Preparation of Doctoral Dissertation**

Catalog Number: 0375

Barbara L. Hillers 3342, Catherine McKenna 5253, Tomás Ó Cathasaigh 1224, and Patrick K. Ford 2921 (*fall term only*)

## Chemical Biology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on Higher Degrees in Chemical Biology***

Jon Clardy, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
(*Co-Chair*)

Gregory L. Verdine, Harvard College Professor and Erving Professor of Chemistry (*Co-Chair*)  
Daniel E. Kahne, Professor of Chemistry and Chemical Biology (*FAS*) and Professor of



Biological Chemistry and Molecular Pharmacology (*Medical School*)

Suzanne Walker, Professor of Microbiology and Molecular Genetics (*Medical School*)

Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

***Other Faculty Offering Instruction in Chemical Biology***

Stephen C. Blacklow, Associate Professor of Pathology (*Medical School*)

Eric N. Jacobsen, Sheldon Emery Professor of Chemistry

Randy King, Assistant Professor of Cell Biology (*Medical School*)

Peter T. Lansbury, Professor of Neurology (*Medical School*)

David R. Liu, Professor of Chemistry and Chemical Biology

Gavin MacBeath, Assistant Professor of Chemistry and Chemical Biology

Timothy J. Mitchison, Hasib Sabbagh Professor of Systems Biology (*Medical School*)

Andrew G. Myers, Professor of Chemistry and Chemical Biology

Stuart L. Schreiber, Morris Loeb Professor of Chemistry

Matthew D. Shair, Professor of Chemistry and Chemical Biology

Pamela A. Silver, Professor of Systems Biology (*Medical School*)

Xiaoliang Sunney Xie, Professor of Chemistry and Chemical Biology

Priscilla Yang, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)

Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

The goal of the Doctoral Program in Chemical Biology is biological discovery, and its approach is the seamless integration of principles and experimental techniques drawn from both chemistry and biology. The focus of chemical biology is on biology, which distinguishes it from traditional chemistry, and it uses chemical tools, which distinguishes it from traditional biology. The field also has deep connections with medicine and pharmacology.

The program spans the current Cambridge and Boston campuses and will engage HMS faculty from the Biological Chemistry and Molecular Pharmacology, Microbiology and Genetics, Systems Biology, and Cell Biology Departments; FAS faculty from the Chemistry and Chemical Biology and Molecular and Cell Biology Departments; and affiliated institutions including Brigham and Women's Hospital, Dana-Farber Cancer Institute, Mass General Hospital, and the Broad Institute of Harvard and MIT.

“Chemical biology” has become the shorthand way of describing a new way of thinking about science and organizing research agendas. As Arthur Kornberg (Nobel Prize in Medicine, 1987) put it so eloquently: “Much of life can be understood in rational terms if expressed in the language of chemistry. It is an international language, a language for all of time, and a language that explains where we came from, what we are, and where the physical world will allow us to go. Chemical language has great esthetic beauty and links the physical sciences to the biological sciences.”

The Chemical Biology program will equip students with the appropriate experimental and theoretical approaches to use or develop chemical tools for understanding biological processes. Each of the courses offered by the Program will emphasize concepts, unsolved (or



partially solved) problems and novel technology along with an understanding how and why chemical approaches can drive new experiments and deliver novel insight. Students should leave the program better able to identify important unsolved problems in biology and with an appreciation of how to choose problems for which chemical approaches will be productive.

For more information on the doctoral program, visit the program's website at [www.gsas.harvard.edu/chembio](http://www.gsas.harvard.edu/chembio).

### ***Primarily for Graduates***

#### **Chemical Biology 2100 (formerly Biophysics 201). Organic Chemistry for Biologists**

Catalog Number: 4030

*Jon Clardy (Medical School), Suzanne Walker (Medical School), Christopher T. Walsh (Medical School), and Priscilla Yang (Medical School)*

*Half course (fall term). Tu., Th., 4–5:30. EXAM GROUP: 18*

A treatment of the parts of organic chemistry most relevant to biology. The structures of biologically important small molecules and reaction mechanisms will be covered using both natural and therapeutic examples.

*Note:* Intended for first-year graduate students with an interest in chemical biology and only a modest background in organic chemistry. First Meeting: Tuesday, September 20, at 4 in TMEC 109, HMS.

*Prerequisite:* A basic knowledge of organic chemistry.

#### **Chemical Biology 2101. Strategies in Chemical Biology**

Catalog Number: 5212

*Jon Clardy (Medical School), Christopher T. Walsh (Medical School), Suzanne Walker (Medical School), and members of the Committee*

*Half course (spring term). Tu., Th., 4–5:30. EXAM GROUP: 18*

Successful applications of chemical techniques that address biological questions will be dealt with in a series of structured modules. Each module consists of formal lectures, discussions of recent literature, and presentations from outside speakers.

*Note:* Intended for first-year graduate students in the Chemical Biology program, although others will be admitted with the permission of the instructors.

*Prerequisite:* Chemical Biology 2100 or equivalent.

### ***Cross-listed Courses***

**BCMP 200. Molecular Biology**

**BCMP 201. Proteins: Structure, Function and Catalysis**

**BCMP 207. Molecular Approaches to Drug Action, Discovery, and Design**

**BCMP 230. Principles and Practice of Drug Development**

**Biophysics 101. Genomics, Computing, Economics, and Society**

**Cell Biology 201. Molecular Biology of the Cell**

**Chemistry 135. Experimental Synthetic Chemistry**

**[Chemistry 163. Frontiers in Biophysics]**

**\*Chemistry 206. Advanced Organic Chemistry**



**\*Chemistry 215 (formerly Chemistry 115). Advanced Organic Chemistry: Synthesis of Complex Molecules**

**\*Chemistry 270 (formerly Chemistry 170). Chemical Biology**

**[\*Chemistry 280 (formerly Chemistry 180). Macromolecular Structure and Function]**

**\*Chemistry 285. Human Disease: Molecular Etiology and Mechanistic Pharmacology**  
**Genetics 201. Principles of Genetics**

**MCB 120. Cell Cycle Control and Genome Stability**

**\*MCB 155. Molecular Mechanisms of Gene Control**

**MCB 156. Structural Biology of the Flow of Information in the Cell**

**Microbiology 200. Molecular Microbiology and Pathogenesis**

**Neurobiology 200. Introduction to Neurobiology**

**Systems Biology 102. Systems Cell Biology**

**Virology 200. Virology**

### ***Graduate Courses of Reading and Research***

**\*Chemical Biology 3000. Introduction to Laboratory Research**

Catalog Number: 1888

*Jon Clardy (Medical School) 4667 and members of the Committee*

Introductory lectures by associated Chemical Biology faculty members.

*Note:* Lectures are accompanied by three periods of instruction in laboratories of structural molecular biology, cell and membrane biophysics, molecular genetics and development, neurobiology, bioinformatics, and physical biochemistry. Students normally spend each laboratory period in a different field.

## Chemical Physics

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Committee on the Degree of Doctor of Philosophy in Chemical Physics***

Eric J. Heller, Professor of Chemistry and Physics (*Chair*)

John M. Doyle, Professor of Physics (*on leave 2005-06*)

Roy G. Gordon, Thomas Dudley Cabot Professor of Chemistry

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

Xiaoliang Sunney Xie, Professor of Chemistry and Chemical Biology

Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

#### ***Other Faculty Offering Instruction in Chemical Physics***



Alexander Dalgarno, Phillips Professor of Astronomy (*on leave fall term*)  
Cynthia M. Friend, Theodore William Richards Professor of Chemistry and Professor of Materials Science  
Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry (*on leave fall term*)  
Eric Mazur, Gordon McKay Professor of Applied Physics and Professor of Physics  
Michael B. McElroy, Gilbert Butler Professor of Environmental Studies  
Isaac F. Silvera, Thomas D. Cabot Professor of the Natural Sciences  
Patrick Thaddeus, Robert Wheeler Willson Professor of Applied Astronomy

The degree of Doctor of Philosophy in Chemical Physics is offered to students with undergraduate education in chemistry or physics. It provides a program of study and research in joint areas of physics and chemistry. The Committee in Chemical Physics serves to aid students interested in chemical physics plan their program of graduate studies. The program of research leading to the PhD may be carried out under the direction of members of the departments of Chemistry, Physics, Astronomy, and the Division of Engineering and Applied Sciences who have interests in chemical physics. Specific information may be obtained from any member of the committee and from the Department of Chemistry Information Office.

## Chemistry and Chemical Biology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Chemistry and Chemical Biology*

Cynthia M. Friend, Theodore William Richards Professor of Chemistry and Professor of Materials Science (*Chair*)  
James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry  
David A. Evans, Abbott and James Lawrence Professor of Chemistry  
Roy G. Gordon, Thomas Dudley Cabot Professor of Chemistry  
Eric J. Heller, Professor of Chemistry and Physics  
Richard H. Holm, Higgins Professor of Chemistry (*on leave fall term*)  
Eric N. Jacobsen, Sheldon Emery Professor of Chemistry (*Director of Undergraduate Studies*)  
Daniel E. Kahne, Professor of Chemistry and Chemical Biology (*FAS*) and Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Jeremy R. Knowles, Harvard University Distinguished Service Professor and Amory Houghton Professor of Chemistry and Biochemistry  
Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry (*on leave fall term*)  
David R. Liu, Professor of Chemistry and Chemical Biology  
Gavin MacBeath, Assistant Professor of Chemistry and Chemical Biology



Andrew G. Myers, Professor of Chemistry and Chemical Biology (*Director of Graduate Studies*)  
Hongkun Park, Professor of Chemistry and Chemical Biology (*on leave spring term*)  
Stuart L. Schreiber, Morris Loeb Professor of Chemistry  
Matthew D. Shair, Professor of Chemistry and Chemical Biology  
Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology  
Gregory L. Verdine, Harvard College Professor and Erving Professor of Chemistry  
George M. Whitesides, Woodford L. and Ann A. Flowers University Professor  
Xiaoliang Sunney Xie, Professor of Chemistry and Chemical Biology  
Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

***Other Faculty Offering Instruction in the Department of Chemistry and Chemical Biology***

Dudley R. Herschbach, Frank B. Baird, Jr. Research Professor of Science  
Kelly J. Higgins, Lecturer on Chemistry and Chemical Biology  
Yoshito Kishi, Morris Loeb Professor of Chemistry, Emeritus  
Garry Procter, Lecturer on Chemistry and Chemical Biology  
Richard J. Staples, Lecturer on Chemistry and Chemical Biology  
Gregory C. Tucci, Lecturer on Chemistry and Chemical Biology

***Affiliates of the Department of Chemistry and Chemical Biology***

Jon Clardy, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics  
Suzanne Walker, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Any freshman with an interest in the life sciences should enroll in Life Sciences 1a in the fall. Life Sciences 1a is appropriate for all freshmen regardless of background in Chemistry. Students taking Life Science 1a in the fall can enroll in either Chemistry 7 or Chemistry 20 in the Spring. The spring course selection very much depends upon background. Those with an average or non-existent background in Chemistry should enroll in Chemistry 7 and those with an outstanding background in Chemistry should enroll in Chemistry 20.

Students who have an interest in the physical sciences, and have an average or no background in chemistry should start with the mainstream Chemistry 5 in the fall followed by Chemistry 7 in the spring. Those with an outstanding background in Chemistry can start directly into organic chemistry in the fall via Chemistry 17, or in the spring via Chemistry 20.

Students may not take both Chemistry 17 and 20 for credit. Since there is little or no overlap in content between Chemistry 27 and 30, students interested in a strong background in both bio-organic and theoretical organic chemistry may take both courses.

Certain courses in biochemistry and biophysics are listed under Molecular and Cellular Biology or Biophysics (see cross-listings at end of middle group course section.) The Division of





Engineering and Applied Sciences, the Department of Physics, and the Department of Earth and Planetary Sciences also list a number of courses of interest to chemists.

### ***Primarily for Undergraduates***

Because of the sequence of prerequisites for chemistry courses, the Department strongly recommends some work in mathematics as well as chemistry in the first year. Freshmen contemplating this program are urged to consult a member of the Chemistry Department in planning their work for the first year. Advice may be obtained in the Assistant Director of Undergraduate Studies' Office, Science Center 114.

#### **Chemistry 5. Introduction to Principles of Chemistry**

Catalog Number: 7171

*Xiaoliang Sunney Xie*

*Half course (fall term). M., W., F., at 9, one hour per week of discussion, and three hours per week of laboratory. EXAM GROUP: 2*

Introduction to the structure and properties of atoms, molecules, and ions, stoichiometry; thermochemistry; electronic structure of atoms; periodic properties of the elements; chemical bonding; molecular geometry and bonding theories; gases; intermolecular forces, liquids, and solids; properties of solutions.

*Note:* Chemistry 5–7 is the mainstream general chemistry sequence for students with typical high school chemistry backgrounds (one year). Calculus is not necessary for Chemistry 5, but a strong background in high school algebra is essential. Students who lack this algebra background should take Math Xa before attempting Chemistry 5. See those course descriptions for details. This course, when taken for a letter grade, meets the Core area requirement for Science A.

#### **Chemistry 7. Principles of Chemistry**

Catalog Number: 5118

*James G. Anderson*

*Half course (spring term). M., W., F., at 9, one hour per week of discussion, and three hours per week of laboratory. EXAM GROUP: 2*

Evolution of the elements; nuclear chemistry; rates and mechanisms of chemical reactions; chemical kinetics; chemical equilibrium; acids and bases; additional aspects of aqueous equilibria; instrumental analysis; chemistry of the environment; chemical thermodynamics; electrochemistry; modern materials; chemistry of the nonmetals; metals and metallurgy; chemistry of coordination compounds; the chemistry of life.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science A. *Prerequisite:* Chemistry 5 or equivalent, in particular: chemical equilibrium, the first and second law of thermodynamics, and elements of acid-base chemistry. A few simple operations of the calculus are developed and used. Fluency in precalculus secondary school mathematics is assumed. Exposure to secondary school physics will be helpful.

#### **[Chemistry 15. Inorganic Chemistry]**

Catalog Number: 5025

*Richard H. Holm*

*Half course (fall term). Hours to be arranged.*

The origins of the elements; synthesis, bonding, thermodynamics and reactivity of inorganic



compounds and solids. Case studies of industrial, environmental and biological processes will be used to illustrate the principles of inorganic chemistry. Laboratory: an introduction to inorganic synthesis, analysis, and reactions.

*Note:* Expected to be given in 2006–07. Chemistry 15 may not be counted toward a degree in addition to the former Chemistry 40. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Open to students with strong secondary school courses in chemistry, physics and mathematics, and who are currently enrolled in Mathematics 1a (or equivalent preparation). To be admitted to Chemistry 15, students must obtain a satisfactory score on the Harvard Chemistry Placement Examination, given during the freshman week, or must obtain permission of the instructor. Students who do not take this examination or do not achieve a satisfactory score should take Chemistry 5 and 7. Chemistry 15 may be counted toward a degree in addition to Chemistry 5, 7 or 10.

### Chemistry 17. Principles of Organic Chemistry

Catalog Number: 5085

*Eric N. Jacobsen*

*Half course (fall term). M., W., F., at 11, and a discussion section to be arranged. EXAM GROUP: 4*

An introduction to structure, bonding, and reaction mechanisms of organic compounds; chemical transformation of the common functional groups; principles of organic synthesis.

*Note:* The Chemistry 17/27 sequence is intended primarily for students in the life sciences, whereas the 20/30 sequence is intended primarily for Chemistry concentrators and other students concentrating in the physical sciences. Either sequence satisfies the organic chemistry requirement for medical school. Students may not count both Chemistry 17 and Chemistry 20 for degree credit. On the other hand, Chemistry 27 and Chemistry 30 cover different material, so students may choose to take both courses for degree credit; students should ordinarily take the third half course only after completing either the 17/27 or 20/30 sequence. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Open to freshmen with a score of 750 or higher in the College Boards or the Chemistry Placement Examination; to students who scored 4 or 5 on the Chemistry Advanced Placement Examination; and to students who achieved a grade of B or higher in either Chemistry 7, 10, or 15. Others may enter only by permission of the instructor.

### Chemistry 20. Organic Chemistry

Catalog Number: 0876

*Garry Procter*

*Half course (spring term). M., W., F., at 9, and a discussion section to be arranged. EXAM GROUP: 2*

An introduction to structure and bonding in organic molecules; mechanisms of organic reactions; chemical transformations of the functional groups of organic chemistry; synthesis; determination of chemical structures: infrared and NMR spectroscopy.

*Note:* The Chemistry 17/27 sequence is intended primarily for students in the life sciences, whereas the 20/30 sequence is intended primarily for Chemistry concentrators and other students concentrating in the physical sciences. Either sequence satisfies the organic chemistry requirement for medical school. The content of Chemistry 17 is similar to that of Chemistry 20,



so students may not count both courses toward the degree. On the other hand, Chemistry 27 and Chemistry 30 cover different material, so students may choose to take both courses for degree credit; students should ordinarily take the third half course only after completing either the 17/27 or 20/30 sequence. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Open to freshmen with a score higher than 750 in the College Boards or the Chemistry Placement Examination; to students who scored 5 on the Chemistry Advanced Placement Examination; and to students who achieved a grade of B or higher in either Chemistry 7, 10, or 15. Others may enter only by permission of the instructor.

### Chemistry 27. Organic Chemistry of Life

Catalog Number: 5978

Matthew D. Shair

*Half course (spring term). M., W., F., at 11, and a discussion section, and a five-hour laboratory each week, to be arranged. EXAM GROUP: 4*

Chemical principles that govern the processes driving living systems are illustrated with examples drawn from biochemistry, cell biology, and medicine. The course deals with organic chemical reactivity (reaction mechanisms, structure-reactivity relationships), with matters specifically relevant to the life sciences (chemistry of proteins, nucleic acids, drugs, natural products, cofactors, signal transduction), and with applications of chemical biology to medicine and biotechnology. An understanding of organic reactions and their “arrow pushing” mechanisms is required.

*Note:* Chemistry 27 and 30 may both be taken for degree credit. See note for Chemistry 17. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Chemistry 17 or Chemistry 30 or Chemistry 20 with permission of the instructor.

### Chemistry 30. Organic Chemistry

Catalog Number: 6587

Garry Procter

*Half course (fall term). Lectures M., W., F., at 9, and laboratory, four to six hours a week, to be arranged. EXAM GROUP: 2*

Continuation of Chemistry 20. Fundamental principles and advanced topics in organic chemistry. Carbonyl chemistry and pericyclic reactions are covered in particular detail, using principles of stereochemistry, stereoelectronic theory, and molecular orbital theory as a foundation. Students learn about strategies in multi-step organic synthesis and are introduced to biologically important classes of compounds including alkaloids, carbohydrates, peptides, and nucleic acids.

Laboratory: an introduction to organic chemistry laboratory techniques and experimental organic synthesis.

*Note:* See note for Chemistry 17. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Chemistry 20 or equivalent.

### Chemistry 60. Foundations of Physical Chemistry

Catalog Number: 5181

Roy G. Gordon

*Half course (spring term). W., F., 1:30–3. EXAM GROUP: 6, 7*



A compact introduction to major principles of physical chemistry (statistical mechanics, thermodynamics, and chemical kinetics ), concurrently providing mathematical and physical foundations for these subjects and preparation for Chemistry 160 and 161, or Chemistry 105. *Prerequisite:* Chemistry 5, 7 or 15 or equivalent; completion or concurrent enrollment in Mathematics 21a or Applied Mathematics 21a; completion or concurrent enrollment in Physics 11a or equivalent.

**\*Chemistry 91r. Introduction to Research**

Catalog Number: 4366

*Eric N. Jacobsen, Gregory C. Tucci, and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Reading and/or laboratory work related to one of the research projects under way in the department.

*Note:* Open to a limited number of chemistry concentrators who are accepted as research students without having taken Chemistry 98. Written permission of the sponsor must be filed at the Office of the Assistant Director of Undergraduate Studies in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head whose signature must appear on each student's study card.

**\*Chemistry 98r. Introduction to Research—Junior Year**

Catalog Number: 3124

*Eric N. Jacobsen, Gregory C. Tucci, and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Research under the direction of, or approved by, a member of the faculty of the Department of Chemistry.

*Note:* Open with permission of the instructor to junior chemistry majors who have satisfactorily completed the non-credit *Introduction to Research Tutorial* in the spring term of the sophomore year. In that non-credit spring term tutorial, taught Tu., Th., 1–2:30, students will attend introductory lectures and research seminars in order to acquaint themselves with departmental research programs. In the junior year, students who complete the non-credit tutorial and obtain placement in a research laboratory will undertake research as Chemistry 98r. Written permission of the research adviser must be filed at the office of the Assistant Director of Undergraduate Studies in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head whose signature must appear on each student's study card.

**\*Chemistry 99r. Tutorial—Senior Year**

Catalog Number: 4508

*Eric N. Jacobsen, Gregory C. Tucci, and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Research under the direction of, or approved by, a member of the faculty of the Department of Chemistry.

*Note:* Open to seniors accredited by the Department as honors candidates. Students enrolled in Chem 99r have the option of writing a thesis. Written permission of the research adviser must be filed at the office of the Assistant Director of Undergraduate Studies in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head whose signature must appear on each student's study card.



### ***Cross-listed Courses***

[Biological Sciences 52. Introductory Molecular Biology](#)  
[Earth and Planetary Sciences 107. Environmental Geochemistry](#)  
[Earth and Planetary Sciences 133. Atmospheric Chemistry](#)  
[Engineering Sciences 168. Aquatic Chemistry](#)  
[\\*Freshman Seminar 22e. Molecular Motors: Wizards of the Nanoworld](#)  
[\\*Freshman Seminar 22j. Seeing by Spectroscopy](#)  
[\\*Freshman Seminar 23p. When Antibiotics Fail: From Sore Throats to Tuberculosis to Anthrax](#)  
[Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology](#)  
[Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution](#)  
[\[MCB 176. Biochemistry of Membranes\]](#)

### ***For Undergraduates and Graduates***

#### **Chemistry 105. Mechanisms of Organic Reactions: Physical-Organic Chemistry**

Catalog Number: 3181

George M. Whitesides

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

The study of the relation between structure of carbon compounds and their reactivity and properties. Thermodynamics, electronic structure, reaction mechanisms, reactive intermediates, catalysis, structure-reactivity relations, influence of solvents on reactivity.

*Prerequisite:* Chemistry 20 and 30, and Chem 60 or MCB 61 with a grade of B- or better (Chem 60 and MCB 61 can be taken concurrently) or an equivalent introductory physical chemistry course.

#### **Chemistry 135. Experimental Synthetic Chemistry**

Catalog Number: 3406 Enrollment: Limited to 45.

Garry Procter

*Half course (spring term). Lectures M., at 1, and laboratory, eight to nine hours a week, Tu., 2–10 pm, W., 1–9 pm, or Th., 2–10 pm. EXAM GROUP: 6, 7*

An introduction to experimental problems encountered in the synthesis, isolation, purification, characterization, and identification of inorganic and organic compounds. Each student works on a different sequence of reactions chosen to encourage the development of technical proficiency and to simulate actual research.

*Note:* Preference given to concentrators in Chemistry, Biochemical Sciences, and Biology, in that order. Recommended as an efficient preparation for research in experimental inorganic and organic chemistry and related sciences such as biochemistry and pharmacology. Normally follows Chemistry 27 or 30 and is strongly recommended as preparation for Chemistry 98 and 99.

#### **Chemistry 154. Crystal Symmetry, Diffraction, and Structure Analysis**

Catalog Number: 8873



*Richard J. Staples*

*Half course (spring term). M., W., F., at 9 and a weekly laboratory to be arranged. EXAM GROUP: 2*

Theory of the internal symmetry and arrangement of atoms in crystals; development and use of space groups. Geometrical and physical aspects of the diffraction process, with emphasis on comprehensive interpretation of x-ray diffraction effects from single crystals. Methods of crystal structure analysis. Laboratory includes searching and utilizing the CSD database, as well as the data collection and crystal structure solution of a new single crystal. Option for growing your own single crystal.

*Note:* Given in alternate years.

*Prerequisite:* Familiarity with atomic structure, basic symmetry principles, linear algebra, and electromagnetic waves.

### **[Chemistry 158. Materials Chemistry]**

Catalog Number: 7504

*Charles M. Lieber and Hongkun Park*

*Half course (fall term). Hours to be arranged.*

A survey of current materials research. Topics include: synthesis of bulk, thin film, and nanoscale materials; electronic structure and conduction in materials; optical properties of materials; structure-property relationship; tools for materials research.

*Note:* Expected to be given in 2006–07. Primarily for advanced undergraduates and graduates.

*Prerequisite:* Chemistry 15 or equivalent.

### **Chemistry 160. Physical Chemistry**

Catalog Number: 3420

*Eric J. Heller*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to modern theories of the structure of matter, including the principles of quantum mechanics, the electronic structure of atoms and molecules, chemical bonding, and atomic and molecular spectra.

*Prerequisite:* Applied Mathematics 21a and 21b, Mathematics 21a and 21b, or equivalent preparation in calculus and differential equations; one full course in physics (with an honor grade, if in Physics 1); Chemistry 7, Chemistry 15, or equivalent.

### **Chemistry 161. Statistical Thermodynamics**

Catalog Number: 3575

*Xiaowei Zhuang*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to statistical mechanics, thermodynamics, and chemical kinetics with applications to problems in chemistry.

*Note:* This course is designed for both undergraduate and graduate students. Requirements differ for each.

*Prerequisite:* Chemistry 160 and Applied Mathematics 21a, or equivalent.

### **[Chemistry 163. Frontiers in Biophysics]**

Catalog Number: 3635





*Xiaoliang Sunney Xie and Xiaowei Zhuang*  
*Half course (fall term). Hours to be arranged.*

In recent years, emerging physical tools have changed the way biological problems are addressed. This interdisciplinary course will introduce new experimental advances, microscopy and spectroscopy in particular, together with underlying principles, in the fields of molecular and cellular biophysics.

*Note:* Expected to be given in 2006–07. Primarily for advanced undergraduate students and graduate students with either biological or physical backgrounds.

### **Chemistry 165. Experimental Physical Chemistry**

Catalog Number: 0667

*Kelly J. Higgins*

*Half course (spring term). Lectures: F., 1–2:30; laboratories M., or Tu., 1–5. EXAM GROUP: 6, 7*

Introduction to methods and techniques used in physical chemistry/chemical physics research laboratories. Nine of eleven laboratory assignments involve experiments conducted in current CCB Research Groups: molecular beams; mass spectrometry; Fourier transform infrared and NMR spectroscopies; laser ablation; laser spectroscopy; cavity ring-down spectroscopy; scanning tunneling and atomic force microscopy; kinetics. Computer-based methods of data acquisition and analysis are used throughout.

*Note:* Recommended as an efficient preparation for research in experimental physical chemistry/chemical physics and related sciences.

*Prerequisite:* Chemistry 5, Chemistry 7, or equivalent; Applied Mathematics 21a or Mathematics 21a; one full course in physics or equivalent.

### **Chemistry 192. Principles of Drug Discovery and Development**

Catalog Number: 9628 Enrollment: Limited to 20.

*Gregory L. Verdine, Mark C. Fishman (Medical School), and Vicki L. Sato*

*Half course (spring term). Tu., Th., 11:30–1, and a 1.5-hour weekly section to be arranged. First Meeting: Th., Feb 2, 11:30–1, 60 Oxford St, Room 330. . EXAM GROUP: 13, 14*

How is new medicine created? What steps are taken to go from observed medical need to efficacious treatment with minimal side effects? Case-study based introduction to the process of Drug Discovery co-taught by Harvard faculty and researchers from the Novartis Institutes for BioMedical Research. Topics include: identifying possible drug targets, chemical screening and lead discovery, medicinal chemistry, drug formulation, preclinical safety and clinical trials. Readings and assignments drawn from primary scientific literature and drug study reports.

*Note:* May not be taken concurrently with MCB 192. First Meeting: Th., Feb 2, 11:30–1, 60 Oxford St, Room 330.

*Prerequisite:* BS 52 and one year of organic chemistry. BS 54 is recommended.

### ***Cross-listed Courses***

### **[Earth and Planetary Sciences 137. Biogeochemistry]**

***Primarily for Graduates***



**\*Chemistry 206. Advanced Organic Chemistry**

Catalog Number: 1063

*David A. Evans**Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

A discussion of the important classes of organic reactions will be presented. Topics include rearrangements, cycloadditions, carbonyl additions, and enolate-based transformations. An introduction to FMO theory and stereoelectronic effects will be provided.

*Prerequisite:* Chemistry 30 or permission of instructor.

**\*Chemistry 215 (formerly Chemistry 115). Advanced Organic Chemistry: Synthesis of Complex Molecules**

Catalog Number: 0480

*Andrew G. Myers**Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An integrated course in complex synthetic problem solving that focuses on the development of principles and strategies for synthesis design with a concurrent, comprehensive review of modern synthetic transformations.

*Prerequisite:* Chemistry 105 or a grade of A in Chemistry 30.

**\*Chemistry 242. Quantum Mechanics I**

Catalog Number: 2971

*Eugene I. Shakhnovich**Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Principles of quantum mechanics, particle in a potential well, identical particles, angular momentum, time-independent perturbation theory, chemical bonding in molecules.

*Prerequisite:* Chemistry 160 or Physics 143, Physics 11 or 12, and Applied Mathematics 105a and 105b, or Mathematics 21, or equivalent.

**[\*Chemistry 250 (formerly Chemistry 150). Inorganic Chemistry II. Transition Elements]**

Catalog Number: 6491

*Richard H. Holm**Half course (spring term). Hours to be arranged.*

An introduction to the chemistry of the transition elements and bioinorganic chemistry. Topics include electronic structure, physical methods, stereochemistry, kinetics, and mechanisms of inorganic reactions. Liberal use will be made of elementary group theory and quantum chemistry.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Chemistry 15 or 160, or permission of the instructor.

**[\*Chemistry 253 (formerly Chemistry 153). Organotransition Metal Chemistry]**

Catalog Number: 1848

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*Half course (fall term). Hours to be arranged.*

An introduction to transition metal-mediated chemistry. Topics include organometallic and bioinorganic reaction mechanisms. Particular emphasis is placed on the development of homogeneous catalysts and synthetic mimics of metallo-enzymes, and on their applications in



organic synthesis.

*Note:* Expected to be given in 2006–07. Primarily for graduate students and advanced undergraduates in chemistry.

*Prerequisite:* Chemistry 30 or permission of instructor.

**\*Chemistry 270 (formerly Chemistry 170). Chemical Biology**

Catalog Number: 7754

Gavin MacBeath

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Applying chemical approaches to problems in biology. Topics include: protein design and engineering; chemical genetics, genomics, and proteomics; drug action and resistance; rational and combinatorial approaches to drug discovery; DNA damage and repair; metabolic engineering.

*Prerequisite:* A strong background in organic chemistry and biochemistry.

**[\*Chemistry 280 (formerly Chemistry 180). Macromolecular Structure and Function]**

Catalog Number: 6449

Gregory L. Verdine

*Half course (fall term). Hours to be arranged.*

Explores the relationship between the structure and function of biological macromolecules.

Emphasis is placed on the chemical principles governing recognition and catalysis in biological systems, using examples drawn from the scientific literature.

*Note:* Expected to be given in 2006–07.

**\*Chemistry 285. Human Disease: Molecular Etiology and Mechanistic Pharmacology**

Catalog Number: 4005

Gregory L. Verdine

*Half course (fall term). W., 2–5. EXAM GROUP: 7, 8, 9*

Focuses on the causation and treatment of human disease from a primarily mechanistic, structural and chemical point of view. Lectures will provide the background for in-class talks given by prominent outside speakers.

*Prerequisite:* Chemistry 20/30 or 17/27 or equivalent. Biological Sciences 52 or equivalent.

***Cross-listed Courses***

**Applied Physics 291. Electron Microscopy Laboratory**

**Biophysics 242r. Special Topics in Biophysics**

**Earth and Planetary Sciences 200. Atmospheric Chemistry and Physics**

**[Engineering Sciences 268. Environmental Chemical Kinetics]**

**Physics 218. Modern Dynamical Systems**

***Graduate Courses of Reading and Research***

A student intending to elect one of the following research courses should consult the instructor as far in advance as possible.



**\*Chemistry 300. Research and Reading**

Catalog Number: 6307

*Members of the Department*

Individual work under the supervision of members of the Department.

**\*Chemistry 300p. Physical Chemistry Seminar**

Catalog Number: 3043

*Eugene I. Shakhnovich 3147 and members of the Department*

*Full course (indivisible). Th., at 4 or 5 with additional session F., at 5.*

Weekly physical chemistry seminar and discussion with a member of the faculty of the Department of Chemistry and Chemical Biology.

*Note:* Required for first and second year physical chemistry graduate students.

**\*Chemistry 301. Inorganic Chemistry**

Catalog Number: 3748

*Richard H. Holm 7015 (on leave fall term)*

**\*Chemistry 302. Organometallic Chemistry**

Catalog Number: 1413

*Eric N. Jacobsen 1040*

**\*Chemistry 303. Organic Chemistry**

Catalog Number: 1043

*David A. Evans 7774*

**\*Chemistry 304. Theoretical Atomic, Molecular, and Chemical Physics**

Catalog Number: 0532

*Eric J. Heller 1074*

**\*Chemistry 311. Physical Chemistry**

Catalog Number: 2640

*Charles M. Lieber 3102 (on leave fall term)*

**\*Chemistry 313. Organic Chemistry**

Catalog Number: 0183

*Yoshito Kishi 3852*

**\*Chemistry 315. Photochemistry and Kinetics**

Catalog Number: 5964

*James G. Anderson 6057*

**\*Chemistry 318. Organic Chemistry**

Catalog Number: 4295

*George M. Whitesides 7447*



**\*Chemistry 323. Organic Chemistry**

Catalog Number: 2477  
*Stuart L. Schreiber 2166*

**\*Chemistry 325. Physical Chemistry**

Catalog Number: 8530  
*Cynthia M. Friend 7446*

**\*Chemistry 331. Chemical Biology**

Catalog Number: 1408  
*Gregory L. Verdine 1980*

**\*Chemistry 336. Physical and Inorganic Chemistry and Materials Science**

Catalog Number: 5266  
*Roy G. Gordon 1353*

**\*Chemistry 350. Theoretical Physical Chemistry**

Catalog Number: 8285  
*Eugene I. Shakhnovich 3147*

**\*Chemistry 387. Organic Chemistry**

Catalog Number: 4674  
*Matthew D. Shair 2280*

**\*Chemistry 388. Organic Chemistry**

Catalog Number: 1979  
*Andrew G. Myers 8278*

**\*Chemistry 389. Physical Chemistry**

Catalog Number: 5111  
*Xiaoliang Sunney Xie 2290*

**\*Chemistry 390. Organic Chemistry and Chemical Biology**

Catalog Number: 7469  
*David R. Liu 2717*

**\*Chemistry 391. Physical Chemistry**

Catalog Number: 9897  
*Hongkun Park 2485 (on leave spring term)*

**\*Chemistry 393. Physical Chemistry**

Catalog Number: 1273  
*Xiaowei Zhuang 3991*



**\*Chemistry 394. Chemical Biology and Proteomics**

Catalog Number: 8697

*Gavin MacBeath 4347*

**\*Chemistry 396. Organic Chemistry**

Catalog Number: 2293

*Daniel E. Kahne 5065*

**\*Chemistry 397. Organic Chemistry**

Catalog Number: 3972

*Suzanne Walker (Medical School) 5087*

## The Classics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of the Classics*

Richard F. Thomas, Professor of Greek and Latin (*Chair*)

Carmen Arnold-Biucchi, Lecturer on the Classics

Henry C. Bayerle, Lecturer on the Classics

Kathleen M. Coleman, Harvard College Professor and Professor of Latin (*on leave 2005-06*)

Emma Dench, Visiting Professor of the Classics and of History (*Birkbeck College, University of London*)

John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature (*Director of Graduate Studies*)

Susanne Ebbinghaus, Lecturer on the Classics

Albert Henrichs, Eliot Professor of Greek Literature (*on leave fall term*)

Christopher P. Jones, George Martin Lane Professor of the Classics and of History (*on leave 2005-06*)

Anastasia Karakasidou, Visiting Associate Professor of the Classics (*Wellesley College*)

Elaheh Kheirandish, Lecturer on the Classics, Research Associate in the Classics

Christopher B. Krebs, Assistant Professor of the Classics (*Director of Undergraduate Studies*)

Ivy Livingston, Preceptor in the Classics

Nino Luraghi, Professor of the Classics

Donald J. Mastronarde, Visiting Professor of the Classics (*University of California, Berkeley*) (*spring term only*)

David G. Mitten, James Loeb Professor of Classical Art and Archaeology

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



Jeremy Rau, Assistant Professor of Classics and of Linguistics  
Betsey A. Robinson, Assistant Professor of the Classics and of History of Art and Architecture  
(*on leave 2005-06*)  
Eric W. Robinson, Associate Professor of the Classics and of History (*on leave spring term*)  
Panagiotis Roilos, Associate Professor of Modern Greek (*on leave fall term*)  
Mark Schiefsky, Associate Professor of the Classics  
Francesca Schironi, Assistant Professor of the Classics  
Gisela Striker, Walter C. Klein Professor of Philosophy and of the Classics (*on leave 2005-06*)  
R. J. Tarrant, Pope Professor of the Latin Language and Literature  
Benjamin Tipping, Assistant Professor of the Classics  
Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin (*on leave 2005-06*)

### ***Other Faculty Offering Instruction in the Department of the Classics***

Gloria Ferrari Pinney, Research Professor of Classical Archaeology and Art  
Calvert Watkins, Victor S. Thomas Professor of Linguistics and of the Classics, Emeritus

Information about requirements for undergraduate and graduate degrees, honors, prizes, and scholarships may be obtained at the office of the Department, Boylston Hall 204. Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads or the department's website ([www.fas.harvard.edu/~classics](http://www.fas.harvard.edu/~classics)) to determine if a course is offered on that basis.

## ***Classics***

### ***Primarily for Undergraduates***

#### **\*Classics 93r. Advanced Tutorial for Credit**

Catalog Number: 0511

*Christopher B. Krebs and assistants*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial instruction for course credit open to candidates for honors who are qualified to do special reading projects in Greek and/or Latin.

*Note:* May be counted for concentration.

#### **\*Classics 97a. Tutorial—Sophomore Year**

Catalog Number: 3965

*Nino Luraghi*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

A study of Greek culture and civilization from the Mycenaean to the Hellenistic age. Key works of literature, history, and philosophy as well as archaeological and artistic evidence will be used in order to analyse Greek culture, religion, and society, and their development in the course of the centuries.



**\*Classics 97b. Tutorial—Sophomore Year**

Catalog Number: 4839

*Emma Dench (Birkbeck College, University of London)*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

The Roman world: introduction to its history, literature, art and archaeology, from its beginnings to the fourth century CE. Two lectures and discussion section each week.

**\*Classics 98r. Tutorial — Junior Year**

Catalog Number: 6100

*Christopher B. Krebs and assistants*

*Half course (fall term; repeated spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

*Fall Term Topic:* Sophocles. A close reading of two Sophoclean plays (*Antigone*, *Ajax*) and selections from a third (*Oedipus at Colonus*). Special attention will be paid to Sophoclean language and diction, and the cultural and historical context(s) of tragedy. *Spring Term Topic:* Catullus. Close reading of Catullus in Latin with attention to his metre and language, as well as the literary culture and socio-political context of late Republican Rome. Weekly secondary readings in English.

*Note:* May be counted for concentration.

**\*Classics 99. Tutorial — Senior Year**

Catalog Number: 2350

*Christopher B. Krebs*

*Full course. Hours to be arranged.*

Tutorial instruction for course credit (in addition to ordinary tutorial instruction) is open only to candidates for honors writing a thesis in their senior year whose applications for such instruction have been approved by the Director of Undergraduate Studies.

*Note:* May be counted for concentration. Divisible only with permission of the Director of Undergraduate Studies.

***For Undergraduates and Graduates***

**Classics 140. The Fall of the Roman Republic**

Catalog Number: 9989

*Eric W. Robinson*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A chronological study of the most significant events of the late Republican era, including the reform efforts of the Gracchi, the rise of Marius and Sulla, Cicero and Catiline, the first triumvirate, and ultimately the wars waged by Caesar for control of Rome, and his subsequent assassination.

**Classics 158. Hellenistic Greece from Alexander to Augustus**

Catalog Number: 0056

*Nino Luraghi*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

The political, social, and cultural history of the Greek world from the death of Alexander to the Roman conquest. Attention will concentrate on mainland Greece in its Mediterranean context.





The course aims at introducing the students to the various kinds of evidence for ancient history, from works of ancient literature to inscriptions on stone or bronze, from coins to objects and monuments recovered in archaeological excavations.

### **Classics 159. Ancient Comedy**

Catalog Number: 1855

*Francesca Schironi*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

From Athenian political comedy to Terentian 'comedy of manners.' Readings (in translation) from Aristophanes, Menander, Plautus and Terence, focusing on the development of the genre, and its reception in European literature.

### **Classics 192. "From Alexandria to Baghdad": Classical Sciences in Islamic Lands**

Catalog Number: 0531

*Elaheh Kheirandish*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

A study of the transmission and transformation of classical sciences in the Islamic Middle Ages, with a focus on the early scientific traditions and institutions of Arabic and Persian speaking lands. We begin with the patronage and appropriation of Greek mathematical, philosophical, and medical sciences through a diverse group of translators and scientific authors. We also include a review of literature and reading of selected sources (in English) with attention to cross-cultural and intra-cultural contexts.

### *Cross-listed Courses*

[Celtic 205r. Readings in Early Irish Prose]

[Comparative Literature 142 (formerly German 142). Germany and the Greeks: Philhellenism from Winckelmann to Heidegger]

**Comparative Literature 149. Irony**

[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]

[\*Comparative Literature 280. Literary Theory and Criticism in the Middle Ages: Seminar]

**\*Comparative Literature 287r. Selected Topics in Poetics and Rhetoric: Seminar**

**\*Freshman Seminar 41m. The Euclidean Revolution**

[Historical Study B-04. Ancient Greek Democracy]

[Historical Study B-06. The Roman Games]

[Historical Study B-09. The Christian Revolution]

**History 10a. Western Societies, Politics, and Cultures: From Antiquity to 1650**

**\*History 90i. Major Themes in Ancient History**

[History 1085. The Roman Empire, Augustus to Constantine]

**History 1091 (formerly Jewish Studies 125). Jewish History in the Second and Post-Temple Period**

**History of Art and Architecture 13k. Introduction to Roman Art and Architecture**

[History of Art and Architecture 101. The Materials of Art]

**\*History of Art and Architecture 130. Topography and Monuments of Ancient Rome**



**[History of Art and Architecture 133. Greek Architecture and Urbanism]**  
[History of Science 106. History of Ancient Science](#)  
[\\*History of Science 206r. Ancient Science: Seminar](#)  
[\\*History of Science 207r. Medieval Science: Seminar](#)  
[History of Science 297r. Topics in the History of Medieval Latin Science](#)  
[Literature and Arts A-51. Virgil: Poetry and Reception](#)  
[Literature and Arts B-21. The Images of Alexander the Great](#)  
[Literature and Arts C-14. Concepts of the Hero in Greek Civilization](#)  
**[Literature and Arts C-22. European Culture in the Middle Ages]**  
[Literature and Arts C-61. The Rome of Augustus](#)  
**[Medieval Studies 117. Constitutional and Legal History of Medieval England]**  
[Modern Greek 145 \(formerly Comparative Literature 145\). Dreams and Literature](#)  
**[Philosophy 7. Introduction to Ancient Philosophy ]**  
**[Philosophy 101. Plato]**  
[Philosophy 102. Aristotle](#)  
**[Religion 2348ab. Archaeology and the World of the New Testament: Seminar]**

### ***Graduate Courses of Reading and Research***

#### **\*Classics 300. Direction of Doctoral Dissertations**

Catalog Number: 4543

*Kathleen M. Coleman 2289 (on leave 2005-06), John Duffy 1352, Albert Henrichs 4085 (on leave fall term), Christopher P. Jones 3204 (on leave 2005-06), Christopher B. Krebs 4877, Nino Luraghi 2408 (spring term only), David G. Mitten 1290, Gregory Nagy 1423, Gloria Ferrari Pinney 1384, Jeremy Rau 4657, Betsey A. Robinson 4361 (on leave 2005-06), Eric W. Robinson 2724 (on leave spring term), Panagiotis Roilos 1982 (on leave fall term), Mark Schiefsky 2354, Francesca Schironi 4878, Gisela Striker 2271 (on leave 2005-06), R. J. Tarrant 7503, Richard F. Thomas 1630, Benjamin Tipping 4875, Calvert Watkins 2553, and Jan Ziolkowski 7275 (on leave 2005-06)*

#### **\*Classics 301. Reading or Topics Course**

Catalog Number: 3457

*Kathleen M. Coleman 2289 (on leave 2005-06), Emma Dench (Birkbeck College, University of London) 5243, John Duffy 1352, Albert Henrichs 4085 (on leave fall term), Christopher P. Jones 3204 (on leave 2005-06), Christopher B. Krebs 4877, Nino Luraghi 2408 (spring term only), David G. Mitten 1290, Gregory Nagy 1423, Jeremy Rau 4657, Betsey A. Robinson 4361 (on leave 2005-06), Eric W. Robinson 2724 (on leave spring term), Panagiotis Roilos 1982 (on leave fall term), Mark Schiefsky 2354, Francesca Schironi 4878, Gisela Striker 2271 (on leave 2005-06), R. J. Tarrant 7503, Richard F. Thomas 1630, Benjamin Tipping 4875, and Jan Ziolkowski 7275 (on leave 2005-06)*

*Note: For graduate students whose individual needs are not met by the formal courses offered.*

#### **\*Classics 302. Special Examinations Direction**

Catalog Number: 2686

*Kathleen M. Coleman 2289 (on leave 2005-06), John Duffy 1352, Albert Henrichs 4085 (on leave fall term), Christopher P. Jones 3204 (on leave 2005-06), Christopher B. Krebs 4877, Nino*



*Luraghi 2408, David G. Mitten 1290, Gregory Nagy 1423, Jeremy Rau 4657, Betsey A. Robinson 4361 (on leave 2005-06), Eric W. Robinson 2724 (on leave spring term), Panagiotis Roilos 1982 (on leave fall term), Mark Schiefsky 2354, Francesca Schironi 4878, Gisela Striker 2271 (on leave 2005-06), R. J. Tarrant 7503, Rabun Taylor 4253, Richard F. Thomas 1630, Benjamin Tipping 4875, and Jan Ziolkowski 7275 (on leave 2005-06)*

**\*Classics 350. Classical Philology: Proseminar**

Catalog Number: 4026

*John Duffy 1352*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Designed to introduce graduate students in Classical Philology to the essential fields, tools, and methodologies of the discipline.

*Note:* For first-year students working toward the PhD in Classical Philology. Open to other students by permission of instructor.

***Greek***

Students who have studied classical Greek previously should register at the Department of the Classics, Boylston Hall 204, to take the Harvard placement test in Greek during Freshman Week. Further information on placement in Greek and on the language requirement is available from the Director of Undergraduate Studies.

***Primarily for Undergraduates***

**Greek A. Beginning Greek**

Catalog Number: 0129

*Ivy Livingston and assistants*

*Half course (fall term). Section I and II: M., W., Th., F., at 9; and Section III: M., W., Th., F., at 11. EXAM GROUP: 2, 11*

Elements of the Greek language and introductory readings.

**Greek Aab. Beginning Greek (Intensive)**

Catalog Number: 0714

*Ivy Livingston and assistants*

*Full course (spring term). M. through F., at 9, M., at 1. EXAM GROUP: 2, 11*

For students with little or no previous instruction in Greek who are seriously interested in making quick progress in the language. Covers all basic grammar and considerable practice in reading prose. Students are prepared for Greek 3 or 4.

**Greek B. Beginning Greek**

Catalog Number: 0457

*Ivy Livingston and assistants*

*Half course (spring term). Sections M., W., Th., F., at 9, or 11. EXAM GROUP: 2, 11*

Continuation of Greek A. Extensive reading in Attic prose.

*Prerequisite:* Greek A or equivalent.



### **Greek 3. Introduction to Attic Prose**

Catalog Number: 4696

*Ivy Livingston and assistants*

*Half course (fall term). M., W., F., at 12 or 1. EXAM GROUP: 6*

Selections from several authors, mainly of narrative and dialogue, to be read both as an introduction to the variety of Greek styles and for practice in translation and review of grammar.

*Prerequisite:* Greek B or equivalent.

### **Greek 4. Selections from Homer's Iliad**

Catalog Number: 3361

*Ivy Livingston and assistants*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

An introduction to Homeric poetry: language, meter, formulae, and type scenes.

*Prerequisite:* Greek 3 or equivalent.

### ***For Undergraduates and Graduates***

### **Greek H. Introductory Greek Prose Composition**

Catalog Number: 6323

*Ivy Livingston and assistant*

*Half course (spring term). M., W., F., at 9. EXAM GROUP: 2*

Practice in the translation of sentences and connected prose passages into Attic Greek; review of forms and syntax; readings of selections from prose authors.

*Prerequisite:* Greek 3 or equivalent.

### **[Greek K. Advanced Greek Prose Composition]**

Catalog Number: 4171

*Albert Henrichs*

*Half course (spring term). Hours to be arranged.*

Composition in the prose style of various authors and genres, with selected readings representing the development of Greek prose and its analysis by scholars, ancient and modern.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Greek H or equivalent.

### **Greek 102. Attic Orators**

Catalog Number: 3103

*Nino Luraghi*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

An introduction to political oratory in fourth-century Athens. Selections from Isocrates'

*Panegyricus* and from Demosthenes' *First Philippic* and *On the crown* to be read in the original.

### **Greek 105. Aristophanes**

Catalog Number: 1969

*Francesca Schironi*

*Half course (fall term). M., W., at 1. EXAM GROUP: 6*

Introduction to Old Attic Comedy and Aristophanes. The *Clouds* and the *Frogs* are read in



Greek, with an emphasis on the language, style, meaning, and performance aspects of these two plays.

**Greek 110r. Plato's Republic**

Catalog Number: 6229

Mark Schiefsky

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Reading of the entire work in translation and extensive selections in Greek, with attention to both the philosophical arguments and their literary expression.

**Greek 112a. History of Greek Literature I**

Catalog Number: 3052

Francesca Schironi

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Introduction to the literature of Archaic and early Classical Greece in its social and poetic context. Readings from Homer, Hesiod, lyric poets and Aeschylus, with particular attention to language, genres and their conventions, performance, imagery, and myth.

**Greek 112b. History of Greek Literature II**

Catalog Number: 6889

Donald J. Mastronarde (University of California, Berkeley)

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

The 5th century and beyond: Sophocles, Euripides, historiography, comedy, philosophy, oratory, and Hellenistic poetry.

**Greek 116r. Greek Lyric Poetry**

Catalog Number: 4575

Francesca Schironi

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

Introduction to Greek Lyric Poetry. Close readings of elegiac, iambic, Aeolic and choral poets with a focus on their socio-political and performative contexts, and the language and the convention of this genre.

**Greek 134. The Language of Homer**

Catalog Number: 5139

Jeremy Rau

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Essentials of Greek comparative and historical grammar, and a close reading of *Iliad* 1 and 3. Diachronic aspects of Homeric grammar and diction.

**Greek 153. Hellenistic Poetry**

Catalog Number: 0055

Albert Henrichs

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Selections from Apollonios of Rhodes, Kallimakhos and Theokritos, as well as major



epigrammatists. An introduction to Alexandrian poetics, with attention to genre, narrative and intertextuality.

### ***Cross-listed Courses***

**[Comparative Literature 142 (formerly German 142). Germany and the Greeks: Philhellenism from Winckelmann to Heidegger]**

### ***Primarily for Graduates***

#### **\*Greek 201. Reading Greek**

Catalog Number: 1968

Gregory Nagy

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Readings of Greek prose and poetry ranging from archaic to imperial, with emphasis on variety, quantity, and quick comprehension of syntactic, stylistic, and generic features.

*Prerequisite:* Intended for graduate students in Classical Philology as preparation for the general examinations.

### ***Latin***

Students who have studied Latin previously and have not taken the Advanced Placement Test should register at the Office of Instructional Research and Evaluation (20 Garden Street) to take the Harvard Latin Placement Test during Freshman Week. No one who has studied one year or more of Latin will be admitted to Latin A without taking the placement test. Further information on placement in Latin and the language requirement is available from the Director of Undergraduate Studies in Classics (Boylston Hall 214), or the Freshman Dean's Office.

### ***Primarily for Undergraduates***

#### **Latin A. Beginning Latin**

Catalog Number: 4759

Ivy Livingston and assistants

*Half course (fall term). Sections M., W., Th., F., at 9 or 11. EXAM GROUP: 2, 11*

Intended for students who wish to learn, or reacquaint themselves with, the basic elements of the Latin language. Reading of sentences and very brief passages from Latin authors.

#### **Latin Aab. Beginning Latin (Intensive)**

Catalog Number: 7111

Ivy Livingston and assistants

*Full course (fall term; repeated spring term). M. through F., at 10, M., at 1. EXAM GROUP: 3, 12*

For students with little or no previous instruction in Latin who are seriously interested in making quick progress in the language. Covers all basic grammar and considerable practice in reading prose. Students are prepared for Latin 4.



### **Latin B. Beginning Latin**

Catalog Number: 2101

*Ivy Livingston and assistants*

*Half course (spring term). Section I: M., W., Th., F., at 9; Section II: M., W., Th., F., at 11.*

*EXAM GROUP: 2, 11*

Continuation of Latin A. Completion of basic grammar and introduction to reading of connected texts.

### **Latin 3. Latin Prose Selections (Classical)**

Catalog Number: 2344

*Ivy Livingston and assistants*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

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.

*Note:* Latin 3 and Latin 3m are intended to be equivalent in difficulty and to require identical background (Latin A and B or the equivalent). Students may take either 3 or 3m for degree credit; they are not allowed to take both courses simultaneously or consecutively.

### **Latin 3m. Latin Prose Selections (Late Antique and Medieval)**

Catalog Number: 7123

*Henry C. Bayerle*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Begins with a review of fundamentals. Aims at increased facility in reading Latin, through a study of selected post-classical prose texts and authors such as the Vulgate Bible, Augustine, and Abelard.

*Note:* Latin 3 and Latin 3m are intended to be equivalent in difficulty and to require identical background (Latin A and B or the equivalent). Students may take either 3 or 3m for degree credit; they are not allowed to take both courses simultaneously or consecutively.

### **Latin 4. Introduction to Latin Poetry (Classical)**

Catalog Number: 2488

*Ivy Livingston and assistants*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Selections mainly from Ovid and Virgil.

*Prerequisite:* Note: Latin 4 and Latin 4m are intended to be equivalent in difficulty and to require identical background (Latin 3, Latin 3m, or the equivalent). Students may take either 4 or 4m for degree credit; they are not allowed to take both courses simultaneously or consecutively.

### **Latin 4m. Introduction to Latin Poetry (Late Antique and Medieval)**

Catalog Number: 2096

*Henry C. Bayerle*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Selections from epic and lyric.

*Prerequisite:* Latin 4 and Latin 4m are intended to be equivalent in difficulty and to require





identical background (Latin 3, Latin 3m, or the equivalent). Students may take either 4 or 4m for degree credit; they are not allowed to take both courses simultaneously or consecutively.

***For Undergraduates and Graduates***

**Latin H. Introductory Latin Prose Composition**

Catalog Number: 3814

*Benjamin Tipping*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Systematic review of Latin syntax and translation of prose passages from English into Latin.

*Prerequisite:* Latin 3 or equivalent.

**Latin K. Advanced Latin Prose Composition**

Catalog Number: 5018

*Christopher B. Krebs*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Exercise in the prose style of different authors and periods, working within various subject-areas and genres. As a guide to composition, we will read and analyze illustrative passages from major authors including Cato, Cicero, Sallust, Livy, Seneca, and Tacitus, as well as some distinctive styles in lesser-known authors; we will also consult discussions of rhetoric and prose style by theorists such as Cicero, Seneca, and Quintilian.

**Latin 100. Roman Satire**

Catalog Number: 0595

*Christopher B. Krebs*

*Half course (fall term). M., W., at 1. EXAM GROUP: 6*

Readings from the satires of Horace, Persius and Juvenal with attention to the development of the genre, its status as genre, and with consideration of each author in his literary, social, and cultural context.

**Latin 103. Latin Elegy**

Catalog Number: 5435

*R. J. Tarrant*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Selections from Propertius, Tibullus, and Ovid's *Amores*.

**Latin 106a. Virgil: *Eclogues* and *Georgics***

Catalog Number: 1456

*Benjamin Tipping*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

This course focuses on Virgil's *Eclogues* and *Georgics*. We aim to read and interpret those texts, and to place them in literary and historical context.

**Latin 106b. Virgil: *Aeneid***

Catalog Number: 7069

*Richard F. Thomas*



*Half course (spring term). M., W., F., at 12 and a weekly section to be arranged. EXAM GROUP: 5*

Reading and discussion of Virgil's *Aeneid*, with attention to its place in the epic tradition and its status as a work of Augustan literature.

**Latin 107. Lucretius' *De Rerum Natura***

Catalog Number: 4960

*Mark Schiefsky*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Readings from the *De Rerum Natura* with attention to both Epicurean philosophy and its poetic expression. The emphasis will be on atomism as a unified system for understanding the universe and attaining happiness.

**Latin 108. Cicero on the Roman State**

Catalog Number: 5015

*Benjamin Tipping*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Course focuses on Cicero, *De re publica* 1 and 2. We aim to read and interpret the text, and to discuss Cicero's theory of the mixed constitution and his account of early Roman history.

**Latin 110. Neronian Literature**

Catalog Number: 8353

*Benjamin Tipping*

*Half course (spring term). M., W., at 1. EXAM GROUP: 6*

Course focuses on literature of the reign of Nero (emperor 54-68 CE). We aim to read and interpret texts by the Younger Seneca, Lucan, and Petronius, and to place them in literary and historical context.

**[Latin 112a. History of Latin Literature I]**

Catalog Number: 7099

*Richard F. Thomas*

*Half course (fall term). Hours to be arranged.*

The literature of the Republic and early Augustan period. Reading of extensive selections from the major authors, with lectures and discussion on the evolution and development of Latin prose and poetry. The course focuses on a variety of issues: Latin individuality through manipulation of inherited Greek forms, metrical and stylistic developments, evolving poetics, intertextuality and genre renewal, dynamic effects of social and political contexts.

*Note:* Expected to be given in 2006–07.

**[Latin 112b. History of Latin Literature II]**

Catalog Number: 7643

*Benjamin Tipping*

*Half course (spring term). Hours to be arranged.*

Readings from the literature of the early Empire, with a focus on developments in genre, intertextuality, and socio-political context.

*Note:* Expected to be given in 2006–07.



**Latin 117. Livy**

Catalog Number: 1279

*Emma Dench (Birkbeck College, University of London)*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

An introduction to Livy's style and historical methods, with attention to Livy's place in the tradition of Roman historiography. Readings mainly from the narrative of early Rome.

**[Latin 134. Archaic Latin]**

Catalog Number: 1327

*Jeremy Rau*

*Half course (fall term). Hours to be arranged.*

Essentials of Latin comparative and historical grammar, with readings of early Latin inscriptions, legal texts, and selections from Livius Andronicus, Plautus, Ennius, and Cato.

*Note:* Expected to be given in 2006–07.

***Primarily for Graduates***

**\*Latin 201. Reading Latin**

Catalog Number: 7642

*Richard F. Thomas*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Readings of Latin prose and poetry ranging from archaic to imperial, with emphasis on variety, quantity, and quick comprehension of syntactic, stylistic, and generic features.

*Prerequisite:* Intended for graduate students in Classical Philology as preparation for the general examinations.

***Classical Philology***

***Primarily for Graduates***

**Classical Philology 223. Greek Tragedy**

Catalog Number: 0052

*Donald J. Mastronarde (University of California, Berkeley)*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Intensive study of two plays of Euripides, including textual problems, dramatic conventions, and literary interpretation, accompanied by consideration of some general topics in the study of Greek tragedy.

**Classical Philology 241. Italic Dialects**

Catalog Number: 0053

*Jeremy Rau*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

A systematic introduction to the Italic dialects, including Oscan, Umbrian and South Picene. Emphasis will be on grammar and the reading of inscriptions.



**Classical Philology 247. Herodotus**

Catalog Number: 0051

*Nino Luraghi*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

In-depth analysis of problems relating to Herodotus' work and its cultural and literary background. Topics will include: Herodotus and folktale tradition; reflections of the pentekontaetia in the *Histories*; proof and argument; attitude towards earlier authors.

**Classical Philology 248 (formerly Greek 123). Greek Choral Lyric Poetry**

Catalog Number: 1907

*Gregory Nagy*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

An intensive study of the language and conventions of the genres and sub-genres, with special attention to the choral lyric poetry of Pindar, Bacchylides, Aeschylus, Sophocles, Euripides, and Aristophanes.

**Classical Philology 287 (formerly Classics 287). Augustan Questions**

Catalog Number: 0850

*R. J. Tarrant*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Selected topics in the historiography, literature, and art of the Augustan principate.

**Classical Philology 296. Greek Medical Literature**

Catalog Number: 1841

*Mark Schiefsky*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Close reading of various texts from the Hippocratic Corpus and Galen with attention to both scientific content and literary form and style. Readings chosen based on participants' interests. *Note:* Knowledge of Greek desirable but not required.

***Medieval Greek***

***For Undergraduates and Graduates***

**Medieval Greek 115ar. Introduction to Byzantine Greek**

Catalog Number: 7682

*John Duffy*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Introduces the student to medieval Greek language and literature and, through selected readings, to important elements of Byzantine culture and society. Texts chosen from different genres and periods to reflect the great diversity of Byzantine life and letters. Types of literature will include: devotional reading, biographies, chronicles, sacred and secular poetry, letters, ecphraseis, scholarly writings, and histories. Choice of readings will correspond in part to the specific interests and needs of the participants.

*Prerequisite:* Greek A and B or equivalent.



**Medieval Greek 120. Readings in the Cappadocian Fathers**

Catalog Number: 3786

*John Duffy*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Close reading of selections from the Christian “classics” of the fourth century: Basil of Caesarea, Gregory of Nazianzos, and Gregory of Nyssa. A guiding motif will be Hellenic paideia and Christian culture.

*Prerequisite:* Three terms of Classical or Medieval Greek, or equivalent.

**[Medieval Greek 125. Byzantine Religious Tales]**

Catalog Number: 3317

*John Duffy*

*Half course (spring term). Hours to be arranged.*

Reading a selection from the corpus of Byzantine religious tales and legends, including some that went on to have fruitful careers in Medieval Latin and other languages. Examples: The Jewish Boy Legend; The Sinner’s Vision; The Drunken Nun; Boys Celebrating the Eucharist; The Heretical Businessman.

*Note:* Expected to be given in 2006–07.

**Medieval Greek 185. Workshop in Greek Paleography**

Catalog Number: 3271

*John Duffy*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

A practical introduction to medieval Greek handwriting and manuscripts, tracing the main developments of Greek scripts from the uncial of fourth century texts to scholarly hands of the 16th century. Special emphasis on practical skills. Participants will learn to distinguish the major styles of handwriting, to recognize the most common abbreviations and ligatures, and to read with some facility minuscule hands, especially those of the 11th-16th century. Manuscripts of Classical, Christian, and Byzantine authors explored.

***Cross Listed Courses***

**[Religion 2426. Editing Greek Christian Literature: Seminar]**

***Medieval Latin***

***For Undergraduates and Graduates***

**[Medieval Latin 105. The Poems of Walter of Aquitaine]**

Catalog Number: 9120

*Jan Ziolkowski*

*Half course (fall term). Hours to be arranged.*

Studies a poem about an early Germanic hero, Walter of Aquitaine. Considers problems connected with the poem, from date and authorship to its essential meanings. Seeks to relate poem to both Germanic and Latin contexts, with attention to versions in other languages (in



translation) and to sources and analogues in Latin.

*Note:* Expected to be given in 2006–07.

**[Medieval Latin 120. Wisdom and Learning]**

Catalog Number: 4019

*Jan Ziolkowski*

*Half course (spring term). Hours to be arranged.*

Examines literature in which earthly wisdom and book learning are contrasted or conflated.

Explores interaction among biblical, classical, and native (especially Germanic and Celtic) traditions of wisdom. Works include *Solomon and Marcolf*, mirrors for princes, proverbs, and question-and-answer dialogues.

*Note:* Expected to be given in 2007–08. No prior experience with Medieval Latin necessary.

**[Medieval Latin 150. Abelard and Heloise]**

Catalog Number: 3240

*Jan Ziolkowski*

*Half course (fall term). Hours to be arranged.*

Studies a 12th-century couple whose lives and writings left lasting marks on European culture.

Besides selections from personal correspondence, examines parts of the *Sic et non* and Abelard's ethical writings, hymns, and lament poems. Close reading of Abelard's letters to correspondents other than Heloise. Considers reputation of Abelard and Heloise in later centuries.

*Note:* Expected to be given in 2006–07. No prior experience with Medieval Latin necessary.

***Cross-listed Courses***

**[\*Comparative Literature 280. Literary Theory and Criticism in the Middle Ages: Seminar]**

[Latin 3m. Latin Prose Selections \(Late Antique and Medieval\)](#)

[Latin 4m. Introduction to Latin Poetry \(Late Antique and Medieval\)](#)

**[Literature and Arts C-22. European Culture in the Middle Ages]**

***Classical Archaeology***

***For Undergraduates and Graduates***

**[Classical Archaeology 97r. Classical Archaeology]**

Catalog Number: 3132

*Betsey A. Robinson and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial instruction for candidates in Classical Archaeology. Letter graded.

*Note:* Expected to be given in 2006–07.

**[Classical Archaeology 100. Introduction to Classical Archaeology]**

Catalog Number: 9954

*Betsey A. Robinson*

*Half course (spring term). Hours to be arranged.*



An overview of the materials, methods, history, and theory of classical archaeology. We will study sites, surveys, excavation, and interpretation, working from general principles of stratigraphy and seriation to specialized topics in art history, structural analysis, topography, epigraphy, numismatics, etc. Sessions on history and theory will introduce major sites, both terrestrial and underwater, and consider the current state of classical archaeology and its relationships with allied disciplines.

*Note:* Expected to be given in 2006–07.

### **Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200-300 BCE**

Catalog Number: 0835

*Susanne Ebbinghaus*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Explores ancient Greek visual arts and material culture (Dark Age to Hellenistic), considering major excavated sites and key examples of architecture, sculpture, painting, mosaics and portable arts as documents of social, religious and cultural history.

### **Classical Archaeology 142. Sardis: An Urban Center Between East and West**

Catalog Number: 1820

*David G. Mitten*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Examination of Sardis's urban growth from the Iron Age to present. Particular attention to results of the Harvard-Cornell excavations: arts, architecture, cultural exchange in Lydian, Persian, Hellenistic, Roman, Late and Antique and Byzantine times.

### **[Classical Archaeology 160. Athenian Vase Painting]**

Catalog Number: 7289

*David G. Mitten*

*Half course (spring term). Hours to be arranged.*

Development of painted Greek ceramics, eighth through fourth centuries BC. Vases as sources for mythology, cult, everyday life, ritual and funerary practices. Emphasis on examples in the Sackler Museum and Museum of Fine Arts.

*Note:* Expected to be given in 2006–07.

### **Classical Archaeology 192. Greek Art and History through Coins**

Catalog Number: 1829

*Carmen Arnold-Biucchi*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Introduction to ancient Greek coins for classicists and archaeologists from the beginning of coinage to 31 BC. The course will focus on the significance of coins as historical, art historical and iconographic documents.

***Primarily for Graduates***

### **Classical Archaeology 243. Greece and Macedonia in the Fourth Century BC**

Catalog Number: 1817

*David G. Mitten*





*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Artistic and cultural interchanges among centers in Greece, Persian-controlled Asia Minor and southern Balkans. Major Macedonian sites: Vergina, Pella, Dion, Olynthus, Amphipolis. Macedonian court art. Royal tombs and contests: painting, metalwork, jewelry, ivory carving.

**Classical Archaeology 244. Small Greek Bronze Sculptures of the Human Figure: Seminar**

Catalog Number: 7197

*David G. Mitten*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

This seminar will study, research, find parallels, and write entries for a catalogue of ca. 80 Greek bronze human statuettes from a major private collection, from ca. 650 to 300 BC.

*Note:* Open to undergraduates.

***Cross-listed Courses***

**History of Art and Architecture 13k. Introduction to Roman Art and Architecture**

[History of Art and Architecture 101. The Materials of Art]

**\*History of Art and Architecture 130. Topography and Monuments of Ancient Rome**

**History of Art and Architecture 132v. Aegean Painting and the Ancient World**

[History of Art and Architecture 133. Greek Architecture and Urbanism]

**\*History of Art and Architecture 235p. Roman Painting**

**\*History of Art and Architecture 236v. The Body in Ancient Art**

[Religion 2348ab. Archaeology and the World of the New Testament: Seminar]

***Graduate Course of Reading and Research***

**[\*Classical Archaeology 351. Classical Archaeology Proseminar]**

Catalog Number: 5073

*Kathleen M. Coleman 2289 (on leave 2005-06)*

*Half course (fall term). Hours to be arranged.*

Designed to introduce graduate students in Classical Archaeology to the essential fields, tools, and methodologies of the discipline.

*Note:* Expected to be given in 2006–07. For first-year students working toward the PhD in Classical Archaeology. Open to other students by permission of the instructor.

***Modern Greek***

Students interested in the Modern Greek Studies Program are encouraged to contact the Director of the Program, Prof. Panagiotis Roilos ([roilos@fas.harvard.edu](mailto:roilos@fas.harvard.edu)).

***For Undergraduates and Graduates***

**Modern Greek A. Elementary Modern Greek**

Catalog Number: 8604

*Panagiotis Roilos and assistant*



*Full course. M., W., F., at 10, and an additional hour for conversation. Laboratory, both terms.*

**EXAM GROUP: 3**

For students with no knowledge of modern Greek. Basic oral expression, listening comprehension, grammar, reading, and writing. Language instruction is supplemented by reading of simple literary passages and other texts.

### **Modern Greek B. Intermediate Modern Greek: Language and Civilization**

Catalog Number: 8187

*Panagiotis Roilos and assistant*

*Full course. M., 3–5, W., at 7 pm. EXAM GROUP: 8, 9*

Aims at further development of skills in speaking, comprehension, reading, and writing. Selected readings in prose (literary and journalistic), poetry, folksongs, modern music, and theatre serve as an introduction to aspects of modern Greek literature and culture. The second term is conducted in Greek and focuses on topics selected by the instructor and the students in the first term. Grammar is reviewed in the context of readings.

*Prerequisite:* An elementary knowledge of modern Greek (equivalent to that of Modern Greek A).

### **\*Modern Greek 100. Advanced Modern Greek: Introduction to Modern Greek Literature**

Catalog Number: 8487

*Panagiotis Roilos*

*Half course (fall term). Th., 7–9 pm. EXAM GROUP: 18*

Close literary and linguistic analysis of selected readings in prose, theatre, poetry, and folksongs.

*Note:* Conducted in Greek. Students must have completed Modern Greek B or equivalent and must have permission of the instructor.

### **Modern Greek 140. Greece and the Balkans**

Catalog Number: 1834

*Anastasia Karakasidou (Wellesley College)*

*Half course (fall term). M., 4–6. EXAM GROUP: 9*

The cultural crossroads of the Balkans encompass a variety of landscapes, peoples, and cultures. The main focus of this course will be the historical and cultural contextualization of Greece within the area. It offers a critical overview of the politics of historical continuity and the recent resurgence of Balkan nationalism.

### **Modern Greek 145 (formerly Comparative Literature 145). Dreams and Literature**

Catalog Number: 1446

*Panagiotis Roilos*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Against the dual background of ancient and medieval commentaries on the one hand, and modern psychoanalytic and ethnographic studies on the other, diverse literary texts will be explored. The major focus will be on Greek literature, but examples from other European literatures will also be considered (including film). Major topics: typology of dreams; dreams as narratives; dreaming and writing; religious dimensions. Theoretical readings to include: Aristotle, Aelius Aristides, Artemidorus, Synesius of Cyrene; Freud, Jung, Levi-Strauss, Foucault, Lyotard.



***Cross-listed Courses***

**[Comparative Literature 149. Irony](#)**

# Comparative Literature

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Comparative Literature***

Stephen Owen, James Bryant Conant University Professor (*Chair*)

Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature

Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature

James Engell, Gurney Professor of English Literature and Professor of Comparative Literature

Luis M. Girón Negrón, John L. Loeb Associate Professor of the Humanities (*Director of Graduate Studies*)

John T. Hamilton, John L. Loeb Associate Professor of the Humanities (*on leave 2005-06*)

Christopher D. Johnson, Assistant Professor of Comparative Literature

Despina Kakoudaki, Assistant Professor of Visual and Environmental Studies and of Comparative Literature

Sandra Naddaff, Senior Lecturer on Literature and on Comparative Literature

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

Judith Ryan, Robert K. and Dale J. Weary Professor of German and of Comparative Literature (*on leave fall term*)

Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies

Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and Professor of Comparative Literature

Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature

William Mills Todd III, Harvard College Professor, Harry Tuchman Levin Professor of Literature, and Professor of Comparative Literature (*on leave 2005-06*)

Ruth R. Wisse, Harvard College Professor, Martin Peretz Professor of Yiddish Literature, and Professor of Comparative Literature



***Other Faculty Offering Instruction in the Department of Comparative Literature***

George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature  
William E. Granara, Professor of the Practice of Arabic on the Gordon Gray Endowment  
Karl S. Guthke, Kuno Francke Professor of German Art and Culture  
Panagiotis Roilos, Associate Professor of Modern Greek (*on leave fall term*)  
Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin (*on leave 2005-06*)

This field is organized to facilitate the systematic study of subjects and problems common to the various literatures. Programs leading to the degrees of AM and PhD may, with the approval of the Department, be undertaken by properly qualified graduate students. Though undergraduates may not concentrate in Comparative Literature, their attention is called to the Literature Concentration, to History and Literature, to the Classics and allied fields, and to options in the concentration in English and American Literature and Language. The courses listed below are designed to supplement the offerings of other departments in ancient and modern languages and related fields, including the Literature and Arts courses in the Core Curriculum.

***For Undergraduates and Graduates***

**[Comparative Literature 111. From Type to Self in the Middle Ages]**

Catalog Number: 9245

*Luis M. Girón Negrón*

*Half course (spring term). Hours to be arranged.*

Examines self-representation and the emergence of the individual in selected first-person narratives and poems from medieval/early modern Europe. Examples drawn from spiritual autobiographies (Augustine, Margery Kempe, Teresa of Avila), letter collections (Heloise and Abelard), *maqama* literature, troubadour lyric, Hispano-Jewish poetry (Solomon ibn Gabirol, Judah Halevi), pilgrimage narratives, medieval allegories, Dante, Spanish colonial historiography, and the picaresque novel.

*Note:* Expected to be given in 2006–07. All readings in English translation.

**[Comparative Literature 142 (formerly German 142). Germany and the Greeks: Philhellenism from Winckelmann to Heidegger]**

Catalog Number: 0516

*John T. Hamilton*

*Half course (spring term). Hours to be arranged.*

Topics include the relation of epic to German national identity; originality; genius and tradition; pedagogy and revolution; the formation of the lyrical subject and concepts of the modern *vates*; representations of the classical body; Dionysus and tragedy; *Mutterrecht*; the rise of Antiquarianism, philology, and classical scholarship.

*Note:* Expected to be given in 2006–07. Readings and discussions in English; students with language proficiency read texts in the original.

**[Comparative Literature 148. Metaphor]**

Catalog Number: 6074

*Christopher D. Johnson*



*Half course (fall term). Hours to be arranged.*

Explores the theory and practice of metaphor in literature, philosophy, and science. Topics include: the aesthetic, heuristic, and epistemological functions of metaphor; metaphor's relation to allegory, irony, and other "major tropes"; metaphor in lyric poetry. Theoretical readings include texts by Aristotle, Gracián, Jakobson, Lacan, Ricoeur, Blumenberg, Kofman, Derrida, de Man, and Kuhn.

*Note:* Expected to be given in 2006–07. All readings will be available in translation, but students are encouraged to work in the original languages.

### **Comparative Literature 149. Irony**

Catalog Number: 9984

*Panagiotis Roilos*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Explores major philosophical and aesthetic discourses on irony as well as literary manipulations of the trope in western European tradition. Topics discussed include irony and rhetoric, parody, laughter, irony, and the post-modern.

### **Comparative Literature 151. The Faust Legend in Literature**

Catalog Number: 6217

*Karl S. Guthke*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Important works in the Faust tradition, from the *Faustbuch* (1587) to the 20th century, with emphasis on Marlowe, Calderón, Lessing, Goethe, Byron, Berlioz, and Mann.

*Note:* No reading knowledge of Spanish, French, or German required.

### **Comparative Literature 153. Saul Bellow's Planet**

Catalog Number: 2506

*Ruth R. Wisse*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Studies Bellow's major novels and short stories; emergence of his quasi-autobiographical heroes; relation to Europe, Africa, America, Israel; literary models and influence. Considers his arguments and engagements with major 20th century thinkers as they figure in his fiction.

*Note:* Class is conducted in a modified seminar format.

### **[Comparative Literature 158. Turning the Century: Culture, Technology, and Representation, 1870–1910]**

Catalog Number: 9311

*Despina Kakoudaki*

*Half course (spring term). Hours to be arranged.*

This interdisciplinary class explores the rise of a culture of novelty in the period from 1870 to 1910. Focus on the emergence of new visual media such as photography and film, new ideas about the body and sexuality, and a new relationship to public space and consumer culture.

*Note:* Expected to be given in 2006–07.

### **[Comparative Literature 160. Literary Forgeries and Mystifications]**

Catalog Number: 3614



*George G. Grabowicz*

*Half course (spring term). Hours to be arranged.*

Examines literary forgeries and mystifications from the late 18th century to the present, focusing on their poetics, their ideological motivation and their role in modern political mythmaking (some texts considered: Ossian, The Igor Tale, the Czech manuscripts, the Protocols of the Elders of Zion, Ern Malley). Also considers the psychology and esthetics of simulation and mystification as reflected in the works of Gide, Borges, Nabokov, Pavic, Eco, and Calvino.

*Note:* Expected to be given in 2006–07. All readings in English.

### **[Comparative Literature 161. The Modernist Movements, 1909–1939]**

Catalog Number: 2501

*Judith Ryan*

*Half course (spring term). Hours to be arranged.*

Experimental poetry. Major movements treated include Futurism, Expressionism, Dadaism, Surrealism. Special attention to the relation of literature and the visual arts. Authors: Marinetti, Pound, Eliot, Benn, Rilke, Stein, Schwitters, Supervielle, Eluard, and others.

*Note:* Expected to be given in 2006–07. Knowledge of French or German helpful but not required.

### **Comparative Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course**

Catalog Number: 7762

*George G. Grabowicz*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Psychological, mythic, “catastrophist,” and comic tendencies in the Eastern and Central European novel between the two World Wars (1918–1939). Focus on Kafka, Capek, Bulgakov, Schulz, Witkiewicz, Gombrowicz, and Nabokov.

*Note:* All texts can be read in English translation.

### **[Comparative Literature 165. The Holocaust and Problems of Representation]**

Catalog Number: 0577 Enrollment: Limited to 20.

*Susan R. Suleiman*

*Half course (spring term). Hours to be arranged.*

Can the story of the Holocaust be told? Is there such a thing as “the story” of the Holocaust? Who is authorized to tell it, and how? Do aesthetic categories apply to Holocaust art? Are some representations unacceptable? We explore these and other questions raised by a wide range of works (oral and written testimonies, novels, essays, comic strips, films, poetry, monuments) produced from 1945 to the present in Europe, Israel, and the US.

*Note:* Expected to be given in 2006–07.

### **[Comparative Literature 166. The Comic Tradition in Jewish Culture]**

Catalog Number: 3418

*Ruth R. Wisse*

*Half course (spring term). Hours to be arranged.*

Jews are probably best known in America today for their roles in the Holocaust and in Humor. What, if anything, is the relation between these spheres? Does Jewish humor make fun of the



Jews, or does it make fun of those who make fun of the Jews? Studies some of the theories and uses of Jewish humor, some of its leading practitioners and outstanding works. Invites comparison with other comic traditions and investigation of "national" humor.

*Note:* Expected to be given in 2006–07. Readers of Yiddish may take this course as Yiddish 200.

**[Comparative Literature 167. Contemporary Fiction: The Novel After Theory]**

Catalog Number: 1808

*Judith Ryan*

*Half course (fall term). Hours to be arranged.*

Examines a series of novels from 1980 to the present that build consciously on recent literary and cultural theory. Also explores the relation of fictional narrative to history, social problems, and ideology. Authors treated include: Don DeLillo, Marguerite Duras, John Irving, David Malouf, Christoph Ransmayr, Patrick Süsskind, Graham Swift, and Christa Wolf. Theorists include: Barthes, Bhabha, Baudrillard, Derrida, Hassan, Lacan, and White.

*Note:* Expected to be given in 2006–07.

**[\*Comparative Literature 172 (formerly \*Comparative Literature 269). Paralysis]**

Catalog Number: 8517

*Marc Shell*

*Half course (spring term). Hours to be arranged.*

How does paralysis inform aesthetics? Part One focuses on speech paralysis (*Hamlet*), hysterical paralysis (*Broken Glass*), and paralyzed rulers (FDR, Claudius). Part Two considers movement/stillness in painting (Kahlo, Masaccio) and cinema (*Rear Window*, *Breathing Lessons*) and examines first-person polio narratives. Texts also include history of medicine and film/literary theory.

*Note:* Expected to be given in 2006–07.

**[Comparative Literature 180 (formerly German 180). Melopoeia: On German Music and Letters]**

Catalog Number: 9138

*John T. Hamilton*

*Half course (spring term). Hours to be arranged.*

Examines music theories in relation to German literature, philosophy, and criticism. Topics include harmony of the spheres, synesthesia, Romanticism and *Universalpoesie*, Wagner and *Gesamtkunstwerk*, the tone-poem, secularization and the rise of chromaticization, the semiotics of music, and *Kulturpolitik*.

*Note:* Expected to be given in 2006–07. No knowledge of German required. Readings and discussions in English; German concentrators read texts in the original.

**Comparative Literature 186. Things Come to Life: Imagining Animated Objects in Literature, Philosophy, and Culture**

Catalog Number: 2516

*Despina Kakoudaki*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

This interdisciplinary class explores the fantasy of the animate object in a variety of media and national traditions from antiquity to the present time. Using a historical, visual and theoretical





framework we will study why we imagine objects, statues or paintings coming to life, how we represent constructed or mechanical people (such as automata, androids, robots and cyborgs) in literary and visual culture, and what these figures teach us about gender, race, class, sexuality, citizenship, and the challenges of being human.

***Primarily for Graduates***

**[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]**

Catalog Number: 7426

*Gregory Nagy*

*Half course (fall term). Hours to be arranged.*

Genres, forms, and themes of oral traditions in poetry and prose. Theories of performance and composition. Comparative metrical and formulaic analysis.

*Note:* Expected to be given in 2006–07. Knowledge of Greek not required. Qualified undergraduates welcome.

**[\*Comparative Literature 210. Comparative Themes in the Literatures of Medieval Spain: Seminar]**

Catalog Number: 3298 Enrollment: Limited to 15.

*Luis M. Girón Negrón*

*Half course (spring term). Hours to be arranged.*

Jewish-Christian-Muslim interaction as a paradigm of cultural creativity in medieval Iberia. Examples from the Spanish epic, the *muwashshahat*, Hispano-Jewish poetry, medieval exempla, *maqama* literature, Juan Ruiz and Ibn Hazm, the Sephardic *romancero*, *cancionero* poetry, *La Celestina*, and Spanish mystical literature.

*Note:* Expected to be given in 2006–07. Spanish, Latin, Arabic, and Hebrew materials are read in English translation, but students are encouraged to work with the originals.

**\*Comparative Literature 211. Mysticism and Literature: Seminar**

Catalog Number: 3867

*Luis M. Girón Negrón*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Trends and debates in the comparative study of mystical literature. Primary works by Jewish, Christian, and Muslim authors from the Middle Ages through the 16th century. Also modern authors (Borges, Eliot, Goytisolo) and literary theorists (DeCerteau).

*Note:* Students admitted by permission of course head. Offered jointly with the Divinity School as 3802.

**[Comparative Literature 246. Baroque and Neo-Baroque Literature]**

Catalog Number: 7757

*Christopher D. Johnson*

*Half course (spring term). Hours to be arranged.*

Examines the Baroque as a literary style, historical period, and mode of thought. Focuses on seventeenth-century European, colonial American, and contemporary “Neo-Baroque” texts. Analogies between the literary, visual, and musical arts are explored.



*Note:* Expected to be given in 2006–07. All reading available in translation, but students are encouraged to work in the original languages.

**[\*Comparative Literature 253. Literature and Politics: The New York Intellectuals]**

Catalog Number: 1367

*Ruth R. Wisse*

*Half course (spring term). Hours to be arranged.*

Seminar on the first and probably only European-style intelligentsia to develop in America; their creative negotiation between Europe and America; Yiddish and English; Christian and Jewish cultures; highbrow and lowbrow; literature and politics; Marxism and Modernity.

*Note:* Expected to be given in 2006–07. Open to qualified undergraduates.

**[Comparative Literature 255 (formerly German 255). Introduction to German Hermeneutics]**

Catalog Number: 2000

*John T. Hamilton*

*Half course (spring term). Hours to be arranged.*

Interpretation theories from biblical exegesis to modern hermeneutics. Topics: allegoresis and typology, historicism, poetic obscurity, psychoanalysis, reception theory. Readings: Lessing, Herder, Goethe, Hölderlin, Schleiermacher, Schlegel, Kleist, Hoffmann, Nietzsche, Dilthey, Freud, Kafka, Heidegger, Gadamer, Habermas, Jauss.

*Note:* Expected to be given in 2006–07. Readings in German, discussions in English.

**[\*Comparative Literature 261. Memory and Modernity: Seminar]**

Catalog Number: 6923 Enrollment: Limited to 15.

*Svetlana Boym*

*Half course (fall term). Hours to be arranged.*

Explores modern art of memory in literary, philosophical, and critical texts. Topics: nostalgia and search for newness, and ethics of remembering, modern “memory sites.” Special attention to contemporary East-European reflection on art, memory, and nation.

*Note:* Expected to be given in 2006–07. All texts available in English, but reading texts in the original is encouraged. Primarily for graduate students, but qualified undergraduates welcome.

**\*Comparative Literature 262. Aesthetics and Freedom**

Catalog Number: 5308

*Svetlana Boym*

*Half course (spring term). Th., 12–2. EXAM GROUP: 14, 15*

Examines philosophical, political, and aesthetic conceptions of freedom from French and American revolutions to postcommunism. Topics: aesthetic education and the space of freedom, the myth of America from a cross-cultural perspective, love, and modern ethics.

*Note:* Open to graduate students and qualified undergraduates. The discussions in class are based mostly on the English translations. However, the use of the texts in the original languages (Russian, French, and German) is encouraged for the final paper.

**Comparative Literature 273. Approaches to Modernity: The Metropolis**

Catalog Number: 2521



*Svetlana Boym*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Examines the relationship between urban experience and debates on modernity/postmodernity in art, architecture and social theory. Topics: nostalgia and modernization, cultural archeology and architecture of transition, memorial, museum and public art, national identity and cosmopolitan imagination, metropolis and megapolis.

*Note:* Students in this class will be encouraged to attend lectures and screenings for VES 184 and develop individual research and/or creative projects.

**[Comparative Literature 275. Theory of Narrative: Conference Course ]**

Catalog Number: 3105 Enrollment: Limited to 15.

*William Mills Todd III*

*Half course (spring term). Hours to be arranged.*

Studies of selected narratives (fictional, psychoanalytic, historical, sacred) as semiotic structures, representations, rhetorical gambits, and cultural phenomena. Readings by Jakobson, Barthes, Bakhtin, Iser, Lukács, Foucault and others.

*Note:* Expected to be given in 2006–07. Open to advanced undergraduates and graduates. Recommended for potential teaching fellows.

**Comparative Literature 276. Renaissance Poetics and Rhetoric**

Catalog Number: 2534

*Christopher D. Johnson*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Examines Renaissance literary criticism and theory in the context of the arts of poetry and rhetoric. Topics include imitation, genre, decorum, and the conceit. Readings from Petrarch to Gracián and Boileau.

**[Comparative Literature 277 (formerly Spanish 185). Memory, History, and Fiction]**

Catalog Number: 3774

*Diana Sorensen*

*Half course (fall term). Hours to be arranged.*

Explores theoretical conceptions of the three categories with an interdisciplinary approach (literary, philosophical, anthropological, legal, psychological). We will establish multiple connections between theoretical readings and literary texts, photography, film, monuments and political trials.

*Note:* Expected to be given in 2006–07.

**[\*Comparative Literature 280. Literary Theory and Criticism in the Middle Ages: Seminar]**

Catalog Number: 2215

*Jan Ziolkowski*

*Half course (fall term). Hours to be arranged.*

Examines the place of theory and criticism in the curriculum (grammar, rhetoric, and dialectic). Topics include allegory and allegoresis; continuity of Platonic and Aristotelian traditions; medieval sign theory. Readings from Augustine to Dante and Boccaccio.

*Note:* Expected to be given in 2006–07.



**[\*Comparative Literature 283. Language War: Seminar]**

Catalog Number: 9342

*Marc Shell*

*Half course (spring term). Hours to be arranged.*

Considers language difference as a cause of war. Areas for study include ancient Gilead and Rome as well as Quebec, Nigeria, Hispaniola, the Balkans, Britain, and Israel. Literary problems include translation, heteroglossia, accent, and multilingualism.

*Note:* Expected to be given in 2006–07. Open to undergraduates by special permission.

**\*Comparative Literature 287r. Selected Topics in Poetics and Rhetoric: Seminar**

Catalog Number: 7999

*Gregory Nagy*

*Half course (fall term). Tu., 11–1.*

Points of departure: Aristotle's *Poetics* and *Rhetoric*.

*Note:* Knowledge of Greek not required. Qualified undergraduates welcome.

**\*Comparative Literature 299ar. Theory and Comparative Literature: Proseminar**

Catalog Number: 2431

*Christopher D. Johnson and Despina Kakoudaki*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

An investigation into current trends in comparative literature, with an emphasis on methodologies, resources, and theory.

*Note:* Required of first-year graduate students in Comparative Literature; others may be admitted by permission of the instructors.

***Graduate Courses of Reading and Research***

**\*Comparative Literature 396. Preparation for the General Examinations**

Catalog Number: 4570

*Svetlana Boym 1926, Joaquim-Francisco Coelho 7715, James Engell 8076, Luis M. Girón Negrón 3060, John T. Hamilton 3977 (on leave 2005-06), Christopher D. Johnson 4301, Despina Kakoudaki 3979, Gregory Nagy 1423, Stephen Owen 7418, Judith Ryan 1135 (on leave fall term), Marc Shell 3176, Werner Sollors 7424, Diana Sorensen 4214, Susan R. Suleiman 7234, William Mills Todd III 1634 (on leave 2005-06), and Ruth R. Wisse 3177*

**\*Comparative Literature 397. Direction of Doctoral Dissertations**

Catalog Number: 0320

*Svetlana Boym 1926, Joaquim-Francisco Coelho 7715, James Engell 8076, Luis M. Girón Negrón 3060, William E. Granara 1054, John T. Hamilton 3977 (on leave 2005-06), Barbara E. Johnson 7626 (on leave 2005-06), Christopher D. Johnson 4301, Despina Kakoudaki 3979, Sandra Naddaff 7779, Gregory Nagy 1423, Stephen Owen 7418, Judith Ryan 1135 (on leave fall term), Marc Shell 3176, Werner Sollors 7424, Diana Sorensen 4214, Susan R. Suleiman 7234, William Mills Todd III 1634 (on leave 2005-06), Ruth R. Wisse 3177, and Jan Ziolkowski 7275 (on leave 2005-06)*



**\*Comparative Literature 399. Reading and Research**

Catalog Number: 2893

*Svetlana Boym 1926, Joaquim-Francisco Coelho 7715, James Engell 8076, Luis M. Girón Negrón 3060, John T. Hamilton 3977 (on leave 2005-06), Christopher D. Johnson 4301, Despina Kakoudaki 3979, Sandra Naddaff 7779, Gregory Nagy 1423, Stephen Owen 7418, Judith Ryan 1135 (on leave fall term), Marc Shell 3176, Werner Sollors 7424, Diana Sorensen 4214, Susan R. Suleiman 7234, William Mills Todd III 1634 (on leave 2005-06), and Ruth R. Wisse 3177*

Candidates for the doctoral degree in Comparative Literature may pursue advanced studies under the individual supervision of these instructors.

*Note:* Permission of the instructor and the Chairman of the Department required.

***Cross-listed Courses***

**[\\*English 251. Comparative Romantic Theory: Graduate Seminar](#)**

**[\\*English 292. Issues in the Study of American Literature: Graduate Seminar](#)**

**[German 234. Kant's \*Critique of Judgment\* and the Aesthetics of Early German Idealism: Seminar](#)**

**[\\*Literature 119. Comparative Arts](#)**

**[Modern Greek 145 \(formerly Comparative Literature 145\). Dreams and Literature](#)**

**[Visual and Environmental Studies 171h. Histories of Cinema I: Moving Pictures from the 1890s to the 1930s](#)**

# Computer Science

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### ***Faculty of the Division of Engineering and Applied Sciences Offering Instruction in Computer Science***

David M. Brooks, Assistant Professor of Computer Science on the Gordon McKay Endowment (*Co-Director of Undergraduate Studies*)

Steven J. Gortler, Robert I. Goldman Professor of Computer Science (*Co-Director of Undergraduate Studies*)

Barbara J. Grosz, Higgins Professor of Natural Sciences

Dan Gutfreund, Lecturer on Applied Mathematics

H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering

Henry H. Leitner, Senior Lecturer on Computer Science

Harry R. Lewis, Harvard College Professor and Gordon McKay Professor of Computer Science



Michael D. Mitzenmacher, Gordon McKay Professor of Computer Science (*on leave fall term*)  
 John G. Morrisett, Allen B. Cutting Professor of Computer Science  
 Radhika Nagpal, Assistant Professor of Computer Science on the Gordon McKay Endowment  
 Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences, Professor of Physics, Dean of the Division of Engineering and Applied Sciences and Dean for the Physical Sciences  
 Anthony G. Oettinger, Gordon McKay Professor of Applied Mathematics and Professor of Information Resources Policy  
 David C. Parkes, John L. Loeb Associate Professor of the Natural Sciences  
 Avrom J. Pfeffer, Associate Professor of Computer Science on the Gordon McKay Endowment  
 Michael O. Rabin, Thomas J. Watson, Sr. Professor of Computer Science  
 Norman Ramsey, Associate Professor of Computer Science on the Gordon McKay Endowment  
 Mema Roussopoulos, Assistant Professor of Computer Science on the Gordon McKay Endowment  
 Shimon Schocken, Visiting Professor of Computer Science (*The Interdisciplinary Center Herzliya*) (*fall term only*)  
 Margo I. Seltzer, Harvard College Professor and Herchel Smith Professor of Computer Science  
 Stuart M. Shieber, Harvard College Professor and James O. Welch, Jr. and Virginia B. Welch Professor of Computer Science  
 Michael D. Smith, Gordon McKay Professor of Computer Science and Electrical Engineering (*on leave spring term*)  
 Salil P. Vadhan, Thomas D. Cabot Associate Professor of Computer Science  
 Leslie G. Valiant, T. Jefferson Coolidge Professor of Computer Science and Applied Mathematics (*on leave 2005-06*)  
 James H. Waldo, Lecturer on Computer Science (*spring term only*)  
 Gu-Yeon Wei, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
 Matthew D. Welsh, Assistant Professor of Computer Science on the Gordon McKay Endowment  
 Todd Zickler, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment

The Division of Engineering and Applied Sciences ([www.deas.harvard.edu](http://www.deas.harvard.edu)) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Recommended course programs at the undergraduate level may be obtained from the Academic Office, Pierce Hall 110. Division faculty also offer several courses in the section entitled General Education Electives.

### ***Primarily for Undergraduates***

For information concerning concentration in Computer Science please consult the Director of Undergraduate Studies or the Academic Office, Division of Engineering and Applied Sciences, Pierce Hall 110. The Applied Mathematics and Engineering Sciences sections of the catalog should be consulted for additional courses relevant to computer science. In addition, attention is called to the following courses in related fields: Quantitative Reasoning 20; Applied Mathematics 106, 107; Linguistics 112a, 112b; Philosophy 144; Physics 123; and Statistics 110, 111, 171.

### **[Computer Science 1. Great Ideas in Computer Science](#)**

Catalog Number: 6903





*Henry H. Leitner*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

An introduction to the most important discoveries and intellectual paradigms in computer science, designed for students with little or no previous background. Explores problem-solving using high and low-level programming languages; presents an integrated view of computer systems, from switching circuits up through compilers and GUI design. Examines theoretical and practical limitations related to unsolvable and intractable computational problems, and the social and ethical dilemmas presented by such issues as software unreliability and invasions of privacy.

*Note:* May not be taken for credit after completing Computer Science 50.

### **Computer Science 50. Introduction to Computer Science I**

Catalog Number: 4949

*Michael D. Smith*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Introduction to the intellectual enterprises of computer science. Algorithms: their design, specification, and analysis. Software development: problem decomposition, abstraction, data structures, implementation, debugging, testing. Architecture of computers: low-level data representation and instruction processing. Computer systems: programming languages, compilers, operating systems. Computers in the real world: networks, security and cryptography, artificial intelligence, social issues. Laboratory exercises include extensive programming in the C language.

*Note:* No previous computer experience required. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

### **Computer Science 51. Introduction to Computer Science II**

Catalog Number: 3411

*Radhika Nagpal and Margo I. Seltzer*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Abstract models for computational processes and their concrete realizations. Functional, imperative, object-oriented and event-driven styles of programming. The structure, interpretation and compilation of programming languages. The engineering of complex software through procedural and data abstractions. Laboratory exercises using LISP (Scheme) and C++.

*Prerequisite:* Computer Science 50 or equivalent.

### **\*Computer Science 91r. Supervised Reading and Research**

Catalog Number: 0361

*Steven J. Gortler and David M. Brooks*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised individual study of advanced topics in computer science. A student wishing to enroll in Computer Science 91r must be accepted by a faculty member who will supervise the course work. A form available from Pierce Hall 110, must be filled out and signed by the student and faculty supervisor. Students writing theses may enroll in this course while conducting thesis research and writing.

*Note:* At most two terms of Computer Science 91r may be taken for academic credit. May not be taken Pass/Fail. Students wishing more information about the range of suitable projects or faculty supervisors should consult the Director of Undergraduate Studies.



**[\*Computer Science 96. System Design Projects]**

Catalog Number: 7499 Enrollment: Limited to 20.

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*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Cooperative design, development, and testing of a sizable and realistic computer network system. Students gain experience both in software development and system lifecycle issues, and in the area of application. We concentrate on mathematical modeling for prediction. The target application is prediction of student enrollments based on historical data, as raised by the recent discussions of preregistration. Students work in groups; both student participation in the classroom and effective group cooperation outside the classroom are stressed.

*Note:* Expected to be given in 2006–07.*Prerequisite:* Computer Science 51.***For Undergraduates and Graduates*****Computer Science 101. Digital Systems Construction**

Catalog Number: 3166

*Shimon Schocken (The Interdisciplinary Center Herzliya)**Half course (fall term). W., F., 3:30–5. EXAM GROUP: 8, 9*

A computer science synthesis that starts with Nand gates and ends with applications. Students will build a general-purpose hardware platform using a simple hardware description language, then develop a compiler for a simple object-based language, and build a mini OS. Finally, they will play and develop interactive games like Pong and Tetris on the platform. All the necessary computer science knowledge is covered in the course; the only prerequisite is some programming experience.

*Prerequisite:* Computer Science 50 or equivalent.**Computer Science 121. Introduction to Formal Systems and Computation**

Catalog Number: 0669

*Salil P. Vadhan**Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

General introduction to formal systems and the theory of computation. Elementary treatment of automata, formal languages, computability, uncomputability, computational complexity, NP-completeness, and mathematical logic.

**Computer Science 124. Data Structures and Algorithms**

Catalog Number: 5207

*Michael D. Mitzenmacher**Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Design and analysis of efficient algorithms and data structures. Algorithm design methods, graph algorithms, approximation algorithms, and randomized algorithms are covered.

*Prerequisite:* Computer Science 50 or equivalent; Computer Science 51 is helpful. Some exposure to discrete applied mathematics, such as Applied Mathematics 106 or 107 or Computer Science 121 or Statistics 110, is also helpful.



### **Computer Science 141. Computing Hardware**

Catalog Number: 4357

*David M. Brooks*

*Half course (fall term). M., W., 1–2:30, and a two-hour weekly laboratory. EXAM GROUP: 6, 7*

Introduction to the design, structure, and operation of digital computers; logic circuits and digital electronics; computer arithmetic; computer architecture; and machine language programming.

Consideration of the design interactions between hardware and software systems.

*Prerequisite:* Programming experience required.

### **Computer Science 143. Computer Networks**

Catalog Number: 6401

*H. T. Kung*

*Half course (fall term). W., F., 1–2:30. EXAM GROUP: 6, 7*

Principles, design, implementation, and performance of computer networks. Topics include: Internet protocols and routing, local area networks, TCP, performance analysis, congestion control, network address translation, voice and video over IP, switching and routing, mobile IP, peer-to-peer overlay networks, network security, and other current research topics. Programming assignments on protocol implementation and analysis.

*Prerequisite:* Computer Science 51.

### **Computer Science 144r. Networks Design Projects**

Catalog Number: 5415

*H. T. Kung*

*Half course (spring term). W., F., 2:30–4. EXAM GROUP: 7, 8*

Cooperative design and development of advanced network-based systems with both technology and business considerations. Students will work in 2 person teams. Student work will include reading assignments, homework sets, a project proposal, and project reports and presentations. At the end of the class, all teams will defend their approaches and results in front of the class and invited guests.

*Note:* Preference given to upper-class undergraduates or graduate students in computer science or in business.

*Prerequisite:* Computer Science 143 or equivalent experience.

### **Computer Science 148. Design of VLSI Circuits and Systems**

Catalog Number: 1772 Enrollment: Limited to 16.

*Gu-Yeon Wei*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Presentation of concepts and techniques for the design and fabrication of VLSI systems and digital MOS integrated circuits. Topics include: basic semiconductor theory; MOS transistors and digital MOS circuits design; synchronous machines, clocking, and timing issues; high-level description and modeling of VLSI systems; synthesis and place and route design flows; and testing of VLSI circuits and systems. Various CAD tools for design, simulation, and verification are extensively used.

*Prerequisite:* Computer Science 141 or permission of instructor.

**Computer Science 152. Principles of Programming Languages**

Catalog Number: 6841

*Norman Ramsey**Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Intellectual tools needed to design, evaluate, and choose programming languages. Historical influences on language design. Case studies, reinforced by programming exercises. Advanced languages, abstraction mechanisms. Includes functional, object-oriented, and logic paradigms. Focuses on practice, but covers formal topics crucial for intellectual rigor: abstract syntax, lambda calculus, type systems, and dynamic semantics. Grounding sufficient to read professional literature.

*Prerequisite:* Computer Science 121. Students must have excellent programming skills, be comfortable with recursion, basic mathematical ideas and notations.

**Computer Science 153. Principles of Programming Language Compilation**

Catalog Number: 2842

*John G. Morrisett**Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Implementation of efficient interpreters and compilers for programming languages. Associated algorithms and pragmatic issues. Emphasizes practical applications including those outside of programming languages proper. Also shows relationships to programming-language theory and design. Participants build a working compiler including lexical analysis, parsing, type checking, code generation, and register allocation. Exposure to run-time issues and optimization.

*Prerequisite:* Computer Science 51.

**Computer Science 161. Operating Systems**

Catalog Number: 4347

*Matthew D. Welsh**Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

The fundamental principles of resource management and abstraction in modern operating systems. Control abstractions: threads, processes, scheduling, synchronization. Storage abstractions: dynamic memory allocation, virtual memory, file system design. Communication abstractions: interprocess communication, networking. Case studies. Design and implementation of parts of a multiuser multitasking virtual-memory operating system.

*Prerequisite:* Computer Science 51.

**Computer Science 164. Internet Technologies**

Catalog Number: 7295

*Mema Roussopoulos**Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Survey of current authoring, distributing, and browsing technologies used in the Internet. Topics include: HTTP, DNS and TCP/IP overview, HTML techniques for text, links, forms, and images, client/server paradigm, server-side programming, CGI scripts, dynamic content with Java, how web browsers and web servers work, web caching and replication.

*Prerequisite:* Computer Science 50.



### **[Computer Science 165. Information Management]**

Catalog Number: 0560

*Margo I. Seltzer*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Covers the fundamental concepts of database and information management. Data models: relational, object-oriented, and other; implementation techniques of database management systems, such as indexing structures, concurrency control, recovery, and query processing; management of unstructured data; terabyte-scale databases.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 51.

### **Computer Science 175. Computer Graphics**

Catalog Number: 3771

*Steven J. Gortler*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

The computational aspects of computer graphics. Two major themes are image rendering (viewing transformations, clipping, visible-surface processing, raster algorithms, reflection models, lighting models, surface shading, antialiasing, ray tracing, radiosity, and volume rendering) and scene modeling (modeling transformations, curves and surfaces, texture mapping, data-amplification techniques, constructive solid geometry, scalar- and vector-field data, and animation). Ancillary topics include color compression, image compression, image compositing, graphical user interfaces, and special machine architectures for computer graphics.

*Prerequisite:* Computer Science 51, Applied Mathematics 21b or Mathematics 21b.

### **Computer Science 181. Intelligent Machines: Perception, Learning, and Uncertainty**

Catalog Number: 6454

*Avrom J. Pfeffer*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Introduction to artificial intelligence, focusing on problems of perception, machine learning and reasoning under uncertainty. Supervised learning algorithms. Neural networks and applications to character recognition. Statistical pattern recognition. Bayesian networks: representation, inference and learning. Hidden Markov models and applications to speech recognition. Markov decision processes and reinforcement learning.

*Prerequisite:* Computer Science 51 and Computer Science 121. Statistics 110 is recommended.

### **Computer Science 182. Intelligent Machines: Reasoning, Actions, and Plans**

Catalog Number: 0134

*David C. Parkes*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Introduction to AI, focused on problems in reasoning about action and rational decision making. Search: constraint satisfaction; informed search and optimization; game playing. Knowledge representation and logical inference. Planning: representation, search and heuristics. Bounded rationality, situated agents. Multiagent systems. Discussion of relevant work in philosophy, economics, and decision theory. Applications to scheduling, robotics and e-commerce.

*Prerequisite:* Computer Science 51; Computer Science 121 (may be taken concurrently).

**Computer Science 187. Computational Linguistics**

Catalog Number: 0249

*Stuart M. Shieber**Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to computational linguistics, the study of human language using the tools and techniques of computer science, with applications to a variety of natural-language-processing problems. Representing syntactic structure: context-free, augmented context-free, and trans-context-free grammars. Representing semantic structure: first-order and higher-order logics. Computing with syntactic and semantic representations: Prolog programming; parsing and generation algorithms. Low-level language processing with finite-state methods.

*Prerequisite:* Computer Science 121.***Primarily for Graduates*****Computer Science 220r. Cryptography: Trust and Adversity**

Catalog Number: 1637

*Michael O. Rabin**Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Modern cryptography. Mathematical foundations. Public-key encryptions, digital signatures, key exchanges, zero-knowledge proofs, authentication, oblivious transfer, secure multi-party computations. Quantum and information theoretic secure encryptions. Foundations: Probabilistic encryption and semantic security. Attacks and countermeasures.

**Computer Science 221. Computational Complexity**

Catalog Number: 5812

*Salil P. Vadhan**Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

A quantitative theory of the resources needed for computing and the impediments to efficient computation. The models of computation considered include ones that are finite or infinite, deterministic, randomized, quantum or nondeterministic, discrete or algebraic, sequential or parallel.

*Prerequisite:* Computer Science 121 or equivalent.**[Computer Science 222. Algorithms at the Ends of the Wire]**

Catalog Number: 2493

*Michael D. Mitzenmacher**Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Covers topics related to algorithms for big data, especially related to networks. Themes include compression, cryptography, coding, and information retrieval related to the World Wide Web. Requires a major final project.

*Note:* Expected to be given in 2006–07.*Prerequisite:* Computer Science 124.**[Computer Science 223. Probabilistic Analysis and Algorithms]**

Catalog Number: 4740

*Michael D. Mitzenmacher*



*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Probabilistic techniques and tools for the design and analysis of algorithms. Designed for all first-year graduate students in all areas.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Computer Science 124. Preferably additional probability, such as in Computer Science 226r, Statistics 110, or Mathematics 191.

### **[Computer Science 224r. Randomness in Computation]**

Catalog Number: 3380

*Michael O. Rabin*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

The surprising efficacy of randomization in the solution of algorithmic and computer science problems. Applications include number theory, cryptography, finite fields, computational geometry, routing, parallel algorithms, pattern matching, distributed systems, self-checking programs, probabilistically checkable proofs.

*Note:* Expected to be given in 2006–07.

### **[Computer Science 225. Pseudorandomness]**

Catalog Number: 4869

*Salil P. Vadhan*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Efficiently generating objects that “look random” despite being constructed using little or no randomness. Connections and applications to computational complexity, cryptography, and combinatorics. Pseudorandom generators, randomness extractors, expander graphs, error-correcting codes, hash functions.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Exposure to randomized algorithms (as in Computer Science 124), computational complexity (as in Computer Science 121), and algebra (as in Applied Mathematics 106, Mathematics 123, or Computer Science 226r).

### **[Computer Science 226r. Efficient Algorithms]**

Catalog Number: 1749

*Michael O. Rabin*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A survey of important computer algorithms for numerical and data manipulation problems and their applications in actual computing situations. Topics include combinatorial algorithms, string matching, wavelet algorithms, FFT and its applications, algebraic computations, randomized algorithms in algebra number theory and geometry, maximal flows, error correcting codes, public key cryptography, protocols for distributed systems, and parallel algorithms.

*Note:* Expected to be given in 2007–08.

### **[Computer Science 228. Computational Learning Theory]**

Catalog Number: 0364

*Leslie G. Valiant*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Possibilities of and limitations to performing learning by computational agents. Topics include





computational models, polynomial time learnability, learning from examples and learning from queries to oracles. Computational limitations. Statistical limitations. Applications to Boolean functions, automata and geometric functions. Learning algorithms for models of neural computation.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 121 or equivalent.

### **Computer Science 229r (formerly Computer Science 229). Topics in the Theory of Computation**

Catalog Number: 3730

*Dan Gutfreund*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Students read, present, and critically evaluate current research papers in theoretical computer science. See syllabus and web site for specific topics of focus.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Computer Science 121 or equivalent.

### **Computer Science 244r. Advanced Networks Design Projects**

Catalog Number: 3018

*H. T. Kung*

*Half course (spring term). W., F., 2:30–4. EXAM GROUP: 7, 8*

The contents and course requirements are similar to those of Computer Science 144r, with the exception that students enrolled in Computer Science 244r are expected to do substantial system implementation and perform graduate-level work.

*Note:* Preference given to upper-class undergraduates or graduate students in computer science or in business who are proficient in computer programming or in business software.

*Prerequisite:* Computer Science 143 or equivalent experience.

### **Computer Science 246r. Advanced Computer Architecture**

Catalog Number: 0979

*David M. Brooks*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Covers technology trends in computer system design, with an emphasis on power-aware computing for mobile, embedded, and traditional systems. System design areas include implementation, architecture, system software, and applications.

*Note:* Taught seminar style after the first several lectures.

*Prerequisite:* Computer Science 141 recommended. Consult instructor with questions.

### **[Computer Science 252r. Advanced Topics in Programming Languages]**

Catalog Number: 1986

*Norman Ramsey*

*Half course (fall term). W., F., 2:30–4. EXAM GROUP: 7, 8*

Advanced functional programming. Lazy evaluation, monads. Folds and unfolds. Combinators for parsing and prettyprinting. Modules systems. Type systems: polymorphism and overloading, type and constructor classes, higher-order kinds, higher-rank polymorphism, polytypic programming. Implementation: heap profiling.





*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 152 or permission of the instructor.

**[Computer Science 253r. Advanced Topics in Programming Language Compilation ]**

Catalog Number: 2901 Enrollment: Limited to 18.

*Michael D. Smith*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

In-depth introduction to computer optimization. Topics include scalar optimization, register allocation, instruction scheduling, dependence analysis, interprocedural analysis, and cache optimization.

*Note:* Expected to be given in 2006–07. Preference given to graduate students or upper-class concentrators.

*Prerequisite:* Computer Science 153 or equivalent.

**[Computer Science 255. Topics in Language-Based Security]**

Catalog Number: 6216

*John G. Morrisett*

*Half course (spring term). W., F., 2:30–4. EXAM GROUP: 7, 8*

Reviews research in programming language-based security mechanisms. Topics include compiler and run-time techniques for enforcing policies; type and proof systems for expressing policies; and static analyses for establishing policies.

*Note:* Expected to be given in 2006–07. Taught in seminar style.

*Prerequisite:* Computer Science 152, 153, 252r, 253r, or permission of the instructor.

**Computer Science 256. Programming Language and Semantics**

Catalog Number: 1554

*John G. Morrisett*

*Half course (spring term). W., F., 2:30–4. EXAM GROUP: 7, 8*

An overview of operational, denotational, and axiomatic semantics; type systems, program analysis, and program equivalence.

*Prerequisite:* Computer Science 152.

**Computer Science 257. Programming with Concurrency**

Catalog Number: 9894

*Norman Ramsey*

*Half course (fall term). W., F., 2:30–4. EXAM GROUP: 7, 8*

Concurrency: theory, program structure, implementation. Emphasis to follow interests of participants. Threads, communicating processes, synchronization, transactions, concurrent functional programs. Modelling and checking. Implementation: synchronization, stack management, scheduling, garbage collection, heap-allocated activations, first-class continuations.

*Prerequisite:* Computer Science 152, 161, or 165, or permission of instructor.

**Computer Science 261. Research Topics in Operating Systems**

Catalog Number: 6706

*Margo I. Seltzer*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*



A quantitative approach to operating system design and evaluation. Discussion of recent research including extensible operating system architectures, distributed systems, and performance analysis. Overview of research techniques and methodology.

*Prerequisite:* Computer Science 161, or equivalent.

### **Computer Science 262. Introduction to Distributed Computing**

Catalog Number: 7949

*James H. Waldo*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

Examination of the special problems associated with distributive computing (e.g., partial failure and lack of global knowledge) and protocols that function in the face of these problems.

Emphasis on causal ordering, event and RPC-based systems.

*Prerequisite:* Computer Science 161 or permission of instructor.

### **Computer Science 263. Wireless Sensor Networks**

Catalog Number: 6846

*Matthew D. Welsh*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Recent advances in wireless communications and sensor networks. Wireless networking, routing, standards including 802.11, Bluetooth, and 802.15.4. Embedded OS, programming tools, applications, and security. Students read research papers and undertake a research project.

*Prerequisite:* Computer Science 161 or Computer Science 143.

### **Computer Science 264. Peer-to-Peer Systems**

Catalog Number: 6069 Enrollment: Limited to 24.

*Mema Roussopoulos*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Discusses research papers on peer-to-peer systems. Topics include: routing, search, caching, security, reputation and trust, incentives, and applications. Students undertake a major research project and lead discussions of readings.

*Note:* Preference to graduate students or upper-level concentrators.

*Prerequisite:* Computer Science 161 or Computer Science 143.

### **[Computer Science 266. Biologically-Inspired Distributed and Multi-Agent Systems]**

Catalog Number: 0766 Enrollment: Limited to 20.

*Radhika Nagpal*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Surveys biologically-inspired approaches to designing distributed systems. Focus is on algorithms, analysis, and programming paradigms. Topics: swarm intelligence, amorphous computing, immune-inspired systems, synthetic biology. Discussion of research papers and a research project required.

*Note:* Expected to be given in 2006–07. Geared toward graduate students of all levels as well as advanced undergraduates. Preference given to graduate students or upper-level concentrators.

*Prerequisite:* Computer Science 161 or Computer Science 143 required.



**Computer Science 277. Geometric Modeling in Computer Graphics**

Catalog Number: 3067

Steven J. Gortler

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

Advanced seminar in computer graphics focusing on geometric representations and processing. Topics include: direct manipulation, implicit surfaces, spline presentations, recursively subdivided surfaces, model simplification, surface parameterization and processing, mesh generation, and motion capture processing.

*Prerequisite:* Computer Science 175.

**[Computer Science 278. Rendering and Image Processing in Computer Graphics]**

Catalog Number: 4883

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*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Advanced course in computer graphics focusing on image rendering and processing. Topics include: light transport, efficient rendering, image based rendering, texture processing, interactive image processing.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 175 or permission of instructor.

**\*Computer Science 279r. Topics in User Interfaces: Privacy and Security Usability**

Catalog Number: 1435 Enrollment: Limited to 12.

Stuart M. Shieber

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Seminar on topics drawn from computer-human interfaces, information retrieval, and information visualization. Intensive lab component emphasizes small group design and implementation. Spring 2006 focus is usability of computer security and privacy systems.

*Prerequisite:* Computer Science 51 and experience developing large software systems as evidenced by successful completion of a systems course requiring a large project.

**[Computer Science 281r. Artificial Intelligence: Reasoning and Planning Systems]**

Catalog Number: 0707

Avrom J. Pfeffer

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

In-depth introduction to formalisms for knowledge representation and techniques for reasoning and planning. Topics: formal logic-based representations; probabilistic reasoning; nonmonotonic logics; truth-maintenance systems; qualitative reasoning; inheritance hierarchies; computational approaches to reasoning about actions and time, including actions of multiple agents, nonlinear planning, plan recognition; reasoning about knowledge, belief, and action.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 182 or permission of instructor.

**Computer Science 282. Probabilistic Reasoning**

Catalog Number: 3158

Avrom J. Pfeffer

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*



In-depth study of principles and techniques for probabilistic reasoning. Topics include: Bayesian networks and Markov networks; exact and approximate inference algorithms; learning Bayesian networks from data; temporal probability models; integrating logic and probability; influence diagrams.

*Prerequisite:* Computer Science 181 or permission of instructor.

### **Computer Science 283. Computer Vision**

Catalog Number: 4475

*Todd Zickler*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Vision as an ill-posed inverse problem: image formation, two-dimensional signal processing; image enhancement and restoration; feature analysis; image segmentation; structure from motion, texture, and shading; multiple view geometry; pattern classification; and applications.

### **[Computer Science 285. Multi-agent Planning Systems]**

Catalog Number: 1060

*Barbara J. Grosz*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Theories and techniques for multi-agent planning, including formal models of rational agents, collaborative plans, and social systems; computational approaches to distributed planning and problem solving, negotiation, and decision theory for planning; collaborative systems design.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 181 or 182, or permission of instructor.

### **Computer Science 286r. Topics at the Interface between Computer Science and Economics**

Catalog Number: 1099 Enrollment: Limited to 20.

*David C. Parkes*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Interplay between computation and incentives within open decentralized computational systems. Mechanisms and market design, negotiation, social-choice, information-economics and privacy. Readings from theoretical CS, AI, operations research, and economics. Seminar style. Spring 2006: Multi-agent Learning and Implementation.

*Note:* Preference given to graduate students or upper-class concentrators.

*Prerequisite:* Mathematics 21b, Applied Mathematics 21b, or equivalent; Computer Science 121, 124, and 181 or 182, or equivalents; or permission of instructor.

### **[Computer Science 287r. Natural Language Processing]**

Catalog Number: 3306

*Stuart M. Shieber*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

In-depth investigation of natural-language-processing techniques. Topics include: finite-state, context-free, and trans-context-free formalisms, syntactic analysis, semantic interpretation, weighted automata and transducers. Students discuss research papers and undertake a significant research project.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Computer Science 187 or permission of instructor.



**Computer Science 288. Computational Models of Discourse**

Catalog Number: 1392

*Barbara J. Grosz*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Computational theories of discourse structure and processing. Topics include: anaphora, focusing, speech acts, collaborative planning and plan recognition algorithms, intonation. Application to dialogue and text-processing systems and design of human-computer interface systems.

*Prerequisite:* Computer Science 182, 187, or 287r or equivalent, or permission of instructor.

**Computer Science 299r. Special Topics in Computer Science**

Catalog Number: 4592

*Michael D. Smith (fall term) and Margo I. Seltzer (spring term)*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervision of experimental or theoretical research on acceptable computer science problems and supervision of reading on topics not covered by regular courses of instruction.

*Note:* Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the Division. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

***Graduate Courses of Reading and Research***

Reading courses are odd-numbered; research courses are even-numbered.

**\*Computer Science 305,306. Information Resources: Technology and Policy**

Catalog Number: 6364,3478

*Anthony G. Oettinger 2403*

**\*Computer Science 307,308. Biologically-Inspired Multi-Agent Systems, Distributed Systems, and Computational Biology**

Catalog Number: 8289,8308

*Radhika Nagpal 5068*

**\*Computer Science 309,310. Computational Mechanism Design, Electronic Marketplaces, and Multi-Agent Systems**

Catalog Number: 8764,0931

*David C. Parkes 4202*

**\*Computer Science 311,312. Collaborative Systems, AI Planning, and Natural Language Processing**

Catalog Number: 4677,6223

*Barbara J. Grosz 1599*



**\*Computer Science 317,318. Distributed Systems, Networking, and Mobile Computing**

Catalog Number: 9388,7137

*Mema Roussopoulos 4822*

**\*Computer Science 319,320. Distributed Systems, Operating Systems, and Networks**

Catalog Number: 8038,8568

*Matthew D. Welsh 4600*

**\*Computer Science 321,322. Databases, Operating System, and Software Design**

Catalog Number: 4085,4086

*Margo I. Seltzer 3371*

**\*Computer Science 323,324. Human-Computer Communication through Natural, Graphical, and Artificial Languages**

Catalog Number: 2450,2453

*Stuart M. Shieber 2456*

**\*Computer Science 325,326. Programming Languages and Tools**

Catalog Number: 8055,0747

*Norman Ramsey 2831*

**\*Computer Science 327,328. Mathematical Logic, Theory of Computation**

Catalog Number: 1160,3576

*Harry R. Lewis 4455*

**\*Computer Science 343,344. Computer Architecture: Modeling and Design**

Catalog Number: 3932,9266

*David M. Brooks 4222*

**\*Computer Science 345,346. High-Performance Computer Systems**

Catalog Number: 6154,6156

*Michael D. Smith 3372 (on leave spring term)*

**\*Computer Science 347,348. Computer Vision**

Catalog Number: 1882,8831

*Todd Zickler 5143*

**\*Computer Science 351,352. Complexity of Computations: Concurrent Programming and Synchronization**

Catalog Number: 0218,0255

*Michael O. Rabin 7003*

**\*Computer Science 353,354. Representation and Reasoning, Machine Learning and Decision Making**

Catalog Number: 6816,1843

*Avrom J. Pfeffer 2830*



**\*Computer Science 355,356. Computational Complexity, Parallel Computation, Computational Learning, Neural Computation**

Catalog Number: 0345,0346

*Leslie G. Valiant 7396 (on leave 2005-06)*

**\*Computer Science 357,358. Computational Complexity, Cryptography, and Pseudorandomness**

Catalog Number: 3485,8641

*Salil P. Vadhan 3833*

**\*Computer Science 359,360. Online Algorithms and Randomized Algorithms**

Catalog Number: 2104,1477

*Michael D. Mitzenmacher 7748 (on leave fall term)*

**\*Computer Science 361,362. Programming Languages and Semantics**

Catalog Number: 8672,8366

*John G. Morrisett 4853*

**\*Computer Science 375,376. Computer Graphics**

Catalog Number: 6832,7313

*Steven J. Gortler 2824*

## Dramatic Arts

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on Dramatics***

Robert J. Kiely, Harvard College Professor and Donald P. and Katherine B. Loker Professor of English (*Chair*) (*on leave spring term*)

Elizabeth Weil Bergmann, Lecturer on Dramatic Arts

Marjorie Garber, William R. Kenan, Jr. Professor of English and American Literature and Language and of Visual and Environmental Studies

Jorie Graham, Boylston Professor of Rhetoric and Oratory

Elizabeth D. Lyman, Assistant Professor of English and American Literature and Language (*on leave 2005-06*)

John C. Megan, Director, Office for the Arts at Harvard (*ex officio*)

Brighde Mullins, Briggs-Copeland Lecturer on English and American Literature and Language

Robert J. Orchard, Director of the Loeb Drama Center and Executive Director of the American Repertory Theatre (*ex officio*)





Peter Sacks, John P. Marquand Professor of English  
Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value  
Robert Elliott Woodruff, Lecturer on Dramatic Arts and Artistic Director of the ART (*ex officio*)

***Other Faculty Offering Instruction in Dramatic Arts***

Christine Dakin, Visiting Lecturer on Dramatic Arts  
Thomas Derrah, Lecturer on Dramatic Arts  
Jeremy Geidt, Lecturer on Dramatic Arts  
J. Michael Griggs, Lecturer on Dramatic Arts  
Nancy K. Houfek, Lecturer on Dramatic Arts  
John Kelly, Visiting Lecturer on Dramatic Arts  
William S. Lebow, Lecturer on Dramatic Arts  
Karen L. MacDonald, Lecturer on Dramatic Arts  
Claire S. Mallardi, Lecturer on Dramatic Arts  
Robert Scanlan, Professor of the Practice of Theater  
Marcus Stern, Lecturer on Dramatic Arts  
Scott Zigler, Lecturer on Dramatic Arts

***Primarily for Undergraduates***

**Dramatic Arts 1. Introduction to Theatre**

Catalog Number: 0845

Scott Zigler

*Half course (fall term). M., 1:30–3:30. EXAM GROUP: 6, 7*

An introduction to and overview of the major collaborative elements of the theatre: playwriting, directing, designing, acting. Also, a discussion of the current state of the theatre in America, giving special attention to productions at the Loeb and in the Boston area. (Students are required to attend at least five different productions.) Students do creative and collaborative work throughout the term, and members of the ART staff give guest lectures in their areas of expertise.

**\*Dramatic Arts 4. East Village Performance 1980–90**

Catalog Number: 5316 Enrollment: Limited to 20.

John Kelly

*Half course (fall term). Tu., 3–6. EXAM GROUP: 17, 18*

In this course we will examine and study the works of several performance artists who emerged from New York's East Village in the 1980s, attempting to delineate what political, economic, and cultural conditions precipitated this artistic moment and how it fits into the larger context of the history of iconoclastic performance. Students will study these artists with the ultimate goal of creating a small performance work in the style of one of the artists examined.

*Note:* While three hours are reserved for class time to allow for video viewing, most class periods will end by 5 pm.

**[Dramatic Arts 5. Production Dramaturgy]**

Catalog Number: 7592

Robert Scanlan



*Half course (fall term). Hours to be arranged.*

Principles of dramaturgy introduced and explained in the context of full productions of performance events. Students will apply literary research and analysis techniques to the preparation of scripts for performance, including but not confined to what are known as “plays.” Specific projects will serve as examples for studying historical background, formal plot theory, scene units, tempo dynamics, and action theory, as these must be handled by directors, actors, and stage managers in the rehearsal hall.

*Note:* Expected to be given in 2006–07. Enrollment determined by interview.

### **Dramatic Arts 10. Beginning Acting**

Catalog Number: 9555

*Scott Zigler*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Utilizing primarily scene study work drawn from contemporary material, the course will focus on three main areas: Text analysis, with primary focus on identification of objectives and tactics, character, and moment to moment spontaneity. The course will draw primarily from the theories of David Mamet and Sanford Meisner.

*Note:* Enrollment determined by audition.

### **\*Dramatic Arts 11. Beginning Acting**

Catalog Number: 3321

*Thomas Derrah*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An exploration of the basic techniques of acting, beginning with exercises that flex the imagination and heighten observation; the course will then move towards work on rhythm, an actor’s instincts, focus, concentration, and character. The texts of Anton Chekhov will be used as a point of reference for the work. The latter part of the course will concentrate on selected scene study from Chekhov’s major plays.

*Note:* Enrollment determined by audition.

### **\*Dramatic Arts 12. Acting Shakespeare**

Catalog Number: 6659 Enrollment: Limited to 20.

*Jeremy Geidt*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Investigation of the texts of Shakespeare as theatre, developing an American approach to verse speaking and character analysis. Scenes are rehearsed to interpret the verse and prose by the light of modern experience. Explores the imagination of the playwright in order to develop the imagination of the student.

### **Dramatic Arts 13. Acting Workshop: Comedy**

Catalog Number: 9926

*William S. Lebow*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A course developing the actor’s approach to and playing of comedy and humor. Using characters and scenes from Shakespeare, Molière, Shaw, and contemporary writers from Christopher Durang to Steve Martin, the course focuses on the universality of comic technique and the



specific demands of comic playing. The question of humor is explored with respect to dramatic situations and characters that are inherently serious. Student scenes will occasionally be critiqued by members of the A.R.T. Company.

*Note:* Enrollment determined by audition.

#### **Dramatic Arts 14. The Art of Movement Design**

Catalog Number: 2983

*Elizabeth Weil Bergmann*

*Half course (fall term). M., 3–6. EXAM GROUP: 8, 9*

What makes movement art? Through a combination of readings, lectures, videos and dance improvisation experiences, we investigate how physical energy and movement design choices develop into kinesthetic, dramatic, and artistic experiences for both the performer and the audience. Focusing on time, weight, space, and flow, movement phrases are structured into an understandable, organic whole.

*Note:* No previous dance experience is necessary.

#### **Dramatic Arts 15. Movement for Actors and Directors**

Catalog Number: 4908

*Claire S. Mallardi*

*Half course (spring term). Tu., Th., 3–5. EXAM GROUP: 17, 18*

Emphasis on integration of verbal and non-verbal communication focusing on movement and gesture to enhance, inform, and illuminate text. The goal is to achieve the fullest range and clarity of physical and emotional expression of the body as it relates to the surrounding space. A physical experiential approach is practiced through studies that pertain to the actor's presence on stage, concentrating on structure, organization, control of time, space, energy, and sound. Mask work included.

#### **[Dramatic Arts 16. Dance as a Collaborative Art]**

Catalog Number: 8830 Enrollment: Limited to 20.

*Elizabeth Weil Bergmann*

*Half course (spring term). Hours to be arranged.*

Focusing upon the relationship between the arts, students apply their analytical and conceptual skills to the creative and collaborative art process. Aspiring student choreographers, composers, writers, and visual artists will create an evening-long event. Artistic collaborations of the 20th century explored through readings, lectures, discussions, and viewing videos.

*Note:* Expected to be given in 2006–07. No previous dance training is necessary. Enrollment determined by interview. Students are encouraged to take Dramatic Arts 14 prior to enrollment but it is not required.

#### **Dramatic Arts 17. Intermediate Acting**

Catalog Number: 9738

*Karen L. MacDonald*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An expansion of basic acting techniques, with an emphasis on the work done during rehearsal. How do you prepare for a rehearsal each day? How do you maximize your time in rehearsal? How do you work with different directors? Emphasis is placed on creating a character and



building a role. Actors will be doing scene study, monologue work, and improvisation.

*Note:* Enrollment determined by audition.

**\*Dramatic Arts 18r. Advanced Acting: 20th-Century Texts**

Catalog Number: 8011

*Marcus Stern*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

A course of advanced acting techniques using 20th-century dramatic texts for scene work. The emphasis is on text analysis, character development, action based acting, and the creation of an acting process that is specifically tailored to the individual actor. The goal is to provide the actor with concrete skills that produce tangible results in rehearsal and in performance. This course is for actors who are interested in working in theater, television, and/or film.

*Note:* Enrollment determined by audition. May be repeated with instructor and advisor approval.

**[Dramatic Arts 19. Playwriting and Dramatic Technique]**

Catalog Number: 8045 Enrollment: Limited to 8.

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*Half course (spring term). Hours to be arranged.*

An advanced investigation of dramatic technique for students with prior experience of playwriting. The seminar focuses on the structural principles of dramatic composition, examining paradigms from Aristotle to David Mamet and developing a formal methodology for playwriting. Through a series of exercises and draft scenes students gain an understanding of theatrical craft, invaluable to playwrights and dramaturgs, and complete a major piece of dramatic writing.

*Note:* Expected to be given in 2006–07. Admission based on samples of writing submitted to the instructor.

**\*Dramatic Arts 22r. Directing**

Catalog Number: 8160 Enrollment: Limited to 15.

*Marcus Stern*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

A directing class for directors, as well as for actors, dramaturgs, and designers investigating all aspects of theater. The class accommodates beginning to advanced levels of work. Through constant scene work, we examine the directorial tools of text analysis, staging, design, and working with actors. The focus is on understanding texts and explicating your response to those texts on stage. Also useful for directors who are interested in television and film.

*Note:* May be repeated with instructor and advisor approval. Enrollment determined by short interviews to be conducted on the first day of class.

**Dramatic Arts 23. Directing**

Catalog Number: 9594

*Robert Elliott Woodruff*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

A Master class for theatre artists, filmmakers, and other visual artists who want to explore the craft. Extensive background in performance, design or media creation is essential. ART's Artistic Director Robert Woodruff will use experiments in composition to enhance a dialogue on



what tools can be used in creating events in space and time.

*Note:* Enrollment determined by audition/interview.

### **[Dramatic Arts 24. Advanced Directing ]**

Catalog Number: 9650 Enrollment: Limited to 9.

*Marcus Stern*

*Half course (spring term). Hours to be arranged.*

An advanced directing course requiring some previous experience: emphasis will be on non-linear texts, staging a non-verbal text, site specific staging, and advanced sound design. Through continual scene work students direct the plays of Beckett, Buchner, Fornes, Parks, Wellman, Ong, Ehn, and address questions such as real time vs. stage time, point of view, narrative vs visceral staging, and the relationship of form and content. This course is useful for directors who are interested in stage, television, and film.

*Note:* Expected to be given in 2006–07. Enrollment determined by audition/interview. Please bring theater resume to first class.

### **\*Dramatic Arts 25. The Artist Revealed: Martha Graham's Work and Creative Process**

Catalog Number: 3984 Enrollment: Limited to 18.

*Christine Dakin*

*Half course (spring term). M., 3–6. EXAM GROUP: 8, 9*

Led by Christine Dakin, principal dancer and former Artistic Director of the Martha Graham Dance Company, participants examine selected works of Martha Graham's dance theater. Lecture, video, and discussion will illuminate the psychological, physical, cultural, and political elements of Graham's work and artistic process, as well as her collaborations with other 20th-century artists such as Aaron Copland, William Schuman, and Isamu Noguchi.

*Note:* Each class will include a movement workshop with music accompaniment, including basics of Graham's dance technique and directed improvisations exploring core aesthetic concepts of her dance. Enrollment determined by interview.

### **Dramatic Arts 28. Vocal Production for the Stage**

Catalog Number: 8900

*Nancy K. Houfek*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Whether one is performing in a play, speaking professionally, teaching a class or leading a group, the ability to use one's voice effectively is a primary element of the success of the presentation. Using several major pedagogies of speaking training, students learn not only how to use the voice, but how the pedagogies of voice training correspond to specific performance challenges.

*Note:* Enrollment determined by interview.

### **Dramatic Arts 30. Design for the Theatre: History and Practice**

Catalog Number: 9503

*J. Michael Griggs*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

The practice of designing scenery for the theatre is explored through the history of stage design and the architecture of the theater building. Students complete projects of research and design for



plays from various periods. The projects will introduce basic techniques in drawing, drafting, and model making.

**\*Dramatic Arts 31. Designing for the Stage**

Catalog Number: 1116 Enrollment: Limited to 12.

*J. Michael Griggs*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Students prepare and present for criticism stage design projects based on play texts that suggest varying interpretive and stylistic problems. Focus is on examining ideas through research of visual material and analysis of text. Through their design projects, students also complete assignments in perspective drawing, drafting, model making, and lighting design. Students at all levels of skill are welcome.

**[Dramatic Arts 64. Dramatic Literature from the Greeks to Ibsen]**

Catalog Number: 9491

*Robert Scanlan*

*Half course (fall term). Hours to be arranged.*

A broad survey of major monuments of drama, starting with Aeschylus' *Oresteia* and culminating with Ibsen's *Peer Gynt*, the gateway to modern drama. Lectures introduce the historical periods that produced and preserved selected classics of western drama. After the Greeks, Roman, and Medieval examples pave the way for Renaissance and French Neo-classical masterpieces, followed by the rise of bourgeois drama, Goethe and finally Ibsen.

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

**Comparative Literature 151. The Faust Legend in Literature**

**\*English Ckr. Playwriting Workshop**

**\*English Clr. Screenwriting Workshop**

**\*English 90pb. Dramatic Structure and Analysis**

**\*English 90sb. Samuel Beckett's Plays and Prose**

**[French 137. 20th-Century French Theater]**

**\*Freshman Seminar 32y. Goethe's *Faust***

**[Japanese Literature 141. Edo's Spectacular Culture]**

**Japanese Literature 243r. Major Writers: Santo Kyoden**

**Literature and Arts A-35. Tragic Drama and Human Conflict**

**Literature and Arts C-14. Concepts of the Hero in Greek Civilization**

**[Literature and Arts C-25. The Medieval Stage]**

**[Literature and Arts C-55. Surrealism: Avant-Garde Art and Politics between the Wars]**



# Earth and Planetary Sciences

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Earth and Planetary Sciences*

Jeremy Bloxham, Harvard College Professor and Mallinckrodt Professor of Geophysics (*Chair*)

James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry

Adam M. Dziewonski, Frank B. Baird, Jr. Professor of Science (*on leave spring term*)

Göran Ekström, Professor of Geology and Geophysics

Brian F. Farrell, Robert P. Burden Professor of Meteorology

Paul F. Hoffman, Sturgis Hooper Professor of Geology

John P. Holdren, Teresa and John Heinz Professor of Environmental Science and Public Policy (*Kennedy School*) and Professor of Environmental Science and Public Policy (*FAS*)

Daniel J. Jacob, Vasco McCoy Family Professor of Atmospheric Chemistry and Environmental Engineering

Stein B. Jacobsen, Professor of Geochemistry

Andrew H. Knoll, Fisher Professor of Natural History and Professor of Earth and Planetary Sciences

Zhiming Kuang, Assistant Professor of Climate Science

Charles H. Langmuir, Professor of Geochemistry (*Director of Graduate Studies*)

Charles R. Marshall, Professor of Biology and of Geology (*on leave fall term*)

James J. McCarthy, Professor of Biological Oceanography

Michael B. McElroy, Gilbert Butler Professor of Environmental Studies

Brendan J. Meade, Assistant Professor of Earth and Planetary Sciences

Sujoy Mukhopadhyay, Assistant Professor of Geochemistry

Richard J. O'Connell, Professor of Geophysics

Ann Pearson, Thomas D. Cabot Associate Professor of Earth and Planetary Sciences

James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics

Daniel P. Schrag, Professor of Earth and Planetary Sciences

John H. Shaw, Harry C. Dudley Professor of Structural and Economic Geology (*Head Tutor*)

Sarah Stewart-Mukhopadhyay, Assistant Professor of Planetary Science

Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics

Steven C. Wofsy, Abbott Lawrence Rotch Professor of Atmospheric and Environmental Science

### *Other Faculty Offering Instruction in the Department of Earth and Planetary Sciences*

Kelly V. Chance, Lecturer on Earth and Planetary Sciences

James L. Davis, Lecturer on Earth and Planetary Sciences

For more information about Earth and Planetary Sciences, please visit the department's website at [www.eps.harvard.edu](http://www.eps.harvard.edu).

### *Primarily for Undergraduates*





**Earth and Planetary Sciences 5. Introduction to Environmental Science: Atmosphere, Ocean, and Biosphere**

Catalog Number: 2207

*Michael B. McElroy*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

An introduction to the scientific basis for current concerns regarding possible changes in the global environment. Issues addressed include climate; depletion of stratospheric ozone; regional air pollution; acid rain; disturbance of biogeochemical cycles for life-essential elements C, N, P, and S.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science A.

**Earth and Planetary Sciences 7. Introduction to Geological Sciences**

Catalog Number: 0918

*Sujoy Mukhopadhyay and Adam M. Dziewonski*

*Half course (fall term). M., W., F., at 10; three hours of laboratory work each week and two day-long field trips on separate weekends required. EXAM GROUP: 3*

A course designed for concentrators but also appropriate for non-concentrators who desire a broad introduction to Earth science. Evolution of the Earth with an emphasis on the processes that have shaped our planet. The theory of plate tectonics is used to explain the occurrence and distribution of earthquakes, volcanoes and mountains. Labs and the weekend field trips familiarize students with rock types, geological features, and illustrate how geologists infer processes from the rock record.

*Note:* Also appropriate for non-EPS concentrators who desire a comprehensive introduction to Earth science. This course, when taken for a letter grade, meets the Core area requirement for Science A.

**Earth and Planetary Sciences 8. History of the Earth**

Catalog Number: 0166

*Paul F. Hoffman and Daniel P. Schrag*

*Half course (spring term). M., W., F., at 10; two hours of laboratory weekly and two one-day field trips. EXAM GROUP: 3*

Examines the major stages and critical events in the history of the Earth, with emphasis on the interactions between global tectonics, the climate system, and biological evolution. Topics range from the formation of the Earth and other planets, to catastrophic events that drove mass extinctions, to the most recent period of human interaction with the environment. Laboratories introduce methods of investigation and analysis of the geological record.

*Note:* Weekend field trip.

*Prerequisite:* Secondary-school courses in science (physics, chemistry, biology) and calculus.

**\*Earth and Planetary Sciences 74. Field Geology**

Catalog Number: 7239

*Paul F. Hoffman*

*Half course (fall term). Hours to be arranged.*

Attend a domestic or overseas geological summer field school of 3-6 weeks duration to learn methods of obtaining and interpreting field observations, and preparing geological maps, stratigraphic sections and field reports. Field schools are selected students individually with the



advice and approval of the instructor.

*Note:* Students must notify EPS Head Tutor and instructors of intention to enroll by May 1 of the preceding spring term.

*Prerequisite:* EPS 7, 8, 150 or 171, are recommended, or permission of instructor.

**\*Earth and Planetary Sciences 91r. Supervised Reading and Research**

Catalog Number: 1462

*John H. Shaw and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Intended for junior or senior concentrators in Earth and Planetary Sciences; open to sophomore concentrators only under exceptional circumstances. Permission of the faculty member under whom the student wants to work and of the Head Tutor is required for enrollment. May be counted for concentration only with the special permission of the Head Tutor.

**\*Earth and Planetary Sciences 99. Tutorial — Senior Year**

Catalog Number: 7120

*John H. Shaw and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Senior honors candidates must take at least one term of this course (fall or spring) if writing a thesis. Signature of the Head Tutor required for enrollment.

***Cross-listed Courses***

**Astronomy 16. Stars and Gas in the Milky Way**

***For Undergraduates and Graduates***

**Earth and Planetary Sciences 107. Environmental Geochemistry**

Catalog Number: 1242

*Sujoy Mukhopadhyay and Ann Pearson*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An overview of low-temperature geochemistry through the treatment of a selection of geochemical issues of environmental significance. Each unit places geochemical topics in the context of a broader geological perspective with particular emphasis on chemical principles. Students from all concentrations are welcome.

*Note:* Given in alternate years.

*Prerequisite:* A course in college-level chemistry or permission from the instructor.

**Earth and Planetary Sciences 108. Environmental Geomechanics**

Catalog Number: 6095

*James R. Rice*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly section to be arranged. . EXAM GROUP: 12, 13*

Concepts of fluid and solid mechanics have major explanatory power throughout the earth and environmental sciences, and they are accessible to students in the early years of study. Here such concepts are introduced in the context of understanding processes in environmental geology.



Topics include: Stream flows, water waves, tsunamis; erosion and sediment transport, geomorphology. Groundwater hydrology, seepage, contaminant transport; poroelasticity, consolidation and subsidence. Rock and soil strength, landslides, debris flows; glaciers; faulting, earthquake dynamics.

*Note:* Given in alternate years. Students who wish to have coverage of the same material at a more advanced level should take the course Engineering Sciences 265.

*Prerequisite:* Mathematics or Applied Mathematics 21a, b and a calculus-based introduction to physics.

### **[Earth and Planetary Sciences 109. Earth Resources and the Environment]**

Catalog Number: 2218

*John H. Shaw*

*Half course (spring term). Hours to be arranged.*

An overview of the Earth's energy and material resources. Following introductions to hydrocarbons, nuclear fuels, and other economically important ores, the course emphasizes methods used to exploit these resources and the environmental impacts of these operations. Topics include: coal and acid rain; petroleum, photochemical smog, and oil spills; nuclear power and radioactive hazards; alternative energies; metals and mining. Labs emphasize methods for discovering and exploiting resources, as well as environmental remediation approaches.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* EPS 7, or 8, or permission of the instructor.

### **Earth and Planetary Sciences 121. Terrestrial Planets**

Catalog Number: 8577

*Sarah Stewart-Mukhopadhyay*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The physical and chemical processes that influence the initial condition, evolution, and current state of terrestrial planets, focusing on the comparative evolution of Venus, Earth, Mars, and large moons. Topics include: planet formation, evolution of atmospheres, interior composition and equations of state, core formation, differentiation, thermal evolution, and major surface modification processes.

*Note:* Given in alternate years.

*Prerequisite:* Physics 15a, b, c, or Physics 11a, b, or permission of instructor.

### **Earth and Planetary Sciences 131. Introduction to Physical Oceanography**

Catalog Number: 2249

*Eli Tziperman*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Basic observations and theoretical understanding of ocean phenomena from local surface beach waves to the effects of the oceans on global climate. Observations and dynamics of ocean waves, currents, turbulence, temperature and salinity distributions; basic fluid dynamics equations; the ocean's role in climate: wind-driven circulation and the Gulf stream, thermohaline circulation and the potential instability of Europe's climate, El Nino, the oceans and global warming.

*Note:* Given in alternate years. When offered, a field trip to Cape Code and the Woods Hole Oceanographic Institution will be included.

*Prerequisite:* Applied Mathematics 21a, b; Physics 11 or 15, or permission of instructor.

**Earth and Planetary Sciences 132. Introduction to Meteorology**

Catalog Number: 8495

*Brian F. Farrell**Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Physical concepts necessary to understand atmospheric structure and motion. Phenomena studied include the formation of clouds and precipitation, solar and terrestrial radiation, dynamical balance of the large-scale wind, and the origin of cyclones. Concepts developed for understanding today's atmosphere are applied to understanding the record of past climate change and the prospects for climate change in the future.

*Prerequisite:* Mathematics 21 or Applied Mathematics 21, Physics 11 or 15, or permission of instructor.

**Earth and Planetary Sciences 133. Atmospheric Chemistry**

Catalog Number: 7731

*Daniel J. Jacob**Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

A fundamental introduction to the physical and chemical processes determining the composition of the atmosphere and its implications for climate, ecosystems, and human welfare. Origin of the atmosphere. Nitrogen, oxygen, carbon, sulfur, trace metal cycles. Climate and the greenhouse effect. Atmospheric transport and turbulence. Stratospheric ozone. Oxidizing power of the atmosphere. Regional air pollution: aerosols, smog, acid rain.

*Prerequisite:* Chemistry 15 or 7, and Mathematics 1b.

**[Earth and Planetary Sciences 137. Biogeochemistry]**

Catalog Number: 1923

*Ann Pearson**Half course (fall term). Hours to be arranged.*

Introduction to biological and organic chemistry of the Earth's environment. Primary focus on the cycles of carbon, nitrogen, oxygen, and hydrogen with emphasis on processes occurring at the molecular level. Includes an introduction to light stable isotope geochemistry and the isotopic records of individual biomolecules in marine and terrestrial environments.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Chemistry 15 or equivalent. Chemistry 17/27 strongly recommended.

**Earth and Planetary Sciences 140. Geochemical and Cosmochemical Thermodynamics I**

Catalog Number: 1960

*Stein B. Jacobsen**Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Application of equilibrium thermodynamics to problems in cosmochemistry, igneous and metamorphic petrology, and environmental geochemistry. The laws of thermodynamics. Thermodynamic functions. Conditions for thermodynamic equilibrium and spontaneous transformations. Systems of variable chemical composition. Selection of components and the Gibbs phase rule. Chemography and petrogenetic grids. Conditions for heterogeneous and homogeneous equilibrium. Equilibrium constants. Fugacities and activities. Calculation of binary and ternary phase diagrams. Conditions for stability. Excess functions. Mixed volatile equilibria. Thermodynamics of aqueous solutions.



*Note:* Given in alternate years.

*Prerequisite:* Chemistry 15 or equivalent; Mathematics 21a or Applied Mathematics 21a (may be taken concurrently).

**[Earth and Planetary Sciences 141. Isotope and Trace Element Geochemistry and Geochronology]**

Catalog Number: 7724

*Stein B. Jacobsen*

*Half course (fall term). Hours to be arranged.*

The origin of the element and isotope distribution in the Earth and the Solar System. Closed system radioactive decay, isotope fractionation, mass balance and mixing. Application of Rb-Sr, Sm-Nd, U-Th-Pb, Lu-Hf, Re-Os and K-Ar isotope systems for geochronology and as tracers for geological processes. Noble gas geochemistry. Extinct nuclides. Cosmogenic nuclides. U-Th-series nuclides. Planetary isotopic evolution. Stable isotope geochemistry. Application of H, C, N, O and S isotopes as tracers of geochemical and biogeochemical processes.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Chemistry 15 or equivalent; EPS 7 or equivalent (recommended).

**Earth and Planetary Sciences 145. Introduction to Igneous Petrology and Petrogenesis**

Catalog Number: 5940

*Charles H. Langmuir*

*Half course (fall term). Tu., Th., 2:30–4 and a weekly section to be arranged. EXAM GROUP: 16, 17*

How igneous rocks form and can reveal the processes and fluxes involved in the circulation of the solid Earth. The course begins with the essential elements of igneous petrology—rock description and nomenclature, mineralogy, phase diagrams, processes of melting and crystallization, trace elements. We then consider the formation of igneous rocks at modern active settings of spreading centers, convergent margins and ocean islands, of large igneous flood basalt provinces, and then of rocks and processes earlier in the history of the Earth and Moon.

**Earth and Planetary Sciences 150. Planetary Materials and Geochemistry**

Catalog Number: 4726

*Stein B. Jacobsen*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Rocks and minerals - clues to understanding the origin and evolution of planetary crusts and mantles. Fundamental principles of mineral structures, phase equilibrium, and the processes of formation of igneous, metamorphic, and sedimentary rocks. Construction and interpretation of phase diagrams, models for melt generation and crystallization. The metamorphic facies concept and thermal models of metamorphism. Mineralogy, composition, and origin of meteorites and lunar samples. Laboratory emphasizes sample identification, and measurements of chemical and isotopic composition.

*Prerequisite:* EPS 7 or Science A-24, and Chemistry 5 or 15, or permission of instructor.

**Earth and Planetary Sciences 161. Global Tectonics**

Catalog Number: 1854

*Richard J. O'Connell*



*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Overview of geophysical and geological observations and phenomena related to large-scale tectonic processes. Plate tectonics; marine magnetic and paleomagnetic measurements; heat flow and thermal evolution of oceanic plates; earthquakes and volcanoes at plate boundaries. The rigid and nonrigid behavior of lithospheric plates; rates of crustal deformation; earthquakes within continents; mountain building and the support and evolution of mountain belts.

*Note:* Given in alternate years.

*Prerequisite:* One basic earth science course (e.g., EPS 7 or Science A-24) or permission of instructor. Applied Mathematics or Mathematics 21a and b, Physics 11a or 15a recommended.

### **Earth and Planetary Sciences 166. Introduction to Seismology**

Catalog Number: 1540

*Adam M. Dziewonski*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Causes, occurrence, and properties of earthquakes. Earthquakes and tectonics, seismic risk, volcanic eruptions. Propagation of seismic waves, physical properties of the Earth's crust, core, and mantle. Seismographs and interpretation of recordings of earthquakes. Some aspects of the required mathematical methods (e.g., Fourier transform) are explained.

*Note:* Given in alternate years.

*Prerequisite:* Mathematics 21a, b or Applied Mathematics 21a, b (may be taken concurrently).

### **[Earth and Planetary Sciences 167. Applied and Environmental Geophysics]**

Catalog Number: 5143

*Adam M. Dziewonski*

*Half course (fall term). Hours to be arranged.*

Geophysical methods used to search for oil and ores and to address environmental problems such as ground water level, radioactive waste storage, estimation of seismic risk. Theory, instrumentation and interpretation of seismic, gravity, electrical and electromagnetic methods.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Mathematics 21a, b or Applied Mathematics 21a, b. Some of the required mathematical tools are explained during the course.

### **Earth and Planetary Sciences 171. Structural Geology and Tectonics**

Catalog Number: 0319

*John H. Shaw*

*Half course (spring term). Tu., Th., 1–2:30; three hours of laboratory work each week. EXAM GROUP: 15, 16*

An introduction to the deformation of Earth materials, including the processes of mountain building and plate tectonics, faulting and earthquakes, folding, and ductile deformation. Structures are examined using geologic maps, balanced cross sections, seismic reflection data, satellite imagery, microscopic analysis, analog experiments, and numerical methods. Labs emphasize the applications of structural geology in the energy and environmental industries, and for assessing earthquake hazards.

*Note:* Given in alternate years.

*Prerequisite:* EPS 7, or 8, or permission of the instructor.





### **Earth and Planetary Sciences 180. Sedimentary Basin Analysis**

Catalog Number: 6992

*Paul F. Hoffman*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

The physical state of the lithosphere and the mechanics of sedimentary basin formation in different geodynamic environments. The origin, transport and deposition of sedimentary basin-fill in terrestrial and marine settings. Process stratigraphy and the subsidence and thermal history of sedimentary basins. The petroleum play, and the importance of supergiant fields. The global petroleum reserve.

*Prerequisite:* Any two of EPS 5, 7, or 8.

### **[Earth and Planetary Sciences 181. Invertebrate Paleontology]**

Catalog Number: 5162

*Andrew H. Knoll*

*Half course (fall term). Hours to be arranged.*

Principles of paleontology, a survey of the major invertebrate taxa, and an investigation of evolutionary history in the oceans. Emphasis on the nature and completeness of the fossil record, taphonomy, systematics, functional and theoretical morphology, along with discussions of biostratigraphy, paleoecology, and evolutionary theory.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Either Science B-16, Biological Sciences 51, or permission of instructor.

### ***Cross-listed Courses***

#### **[\*Astronomy 135. Planetary System Astronomy]**

**Engineering Sciences 120. Introduction to the Mechanics of Solids**

**Engineering Sciences 123. Introduction to Fluid Mechanics**

**[Engineering Sciences 162. Environmental Hydrodynamics and Hydrology]**

**Engineering Sciences 165. Introduction to Environmental Engineering**

**Engineering Sciences 167. Environmental Assessment**

**Engineering Sciences 168. Aquatic Chemistry**

**[OEB 107 (formerly Biology 107). Evolution of Plant Life in Geologic Time]**

**[OEB 118 (formerly Biology 118). Biological Oceanography]**

### ***Primarily for Graduates***

### **Earth and Planetary Sciences 200. Atmospheric Chemistry and Physics**

Catalog Number: 2675

*James G. Anderson and Daniel J. Jacob*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Atmospheric physics and chemistry: stratospheric and tropospheric transport, photochemistry, and aerosols; stratospheric ozone loss, tropospheric pollution. Fundamentals of radiative transfer, simple models of the greenhouse effect.

*Note:* Students specializing in this area are expected to take EPS 200 and 236. These courses may serve as an introduction to atmospheric and oceanic processes for other students with strong preparation.





*Prerequisite:* Applied Mathematics 105b (may be taken concurrently), Physics 11 a, b or 15, and Chemistry 15, or more advanced courses; or permission of the instructors.

### **Earth and Planetary Sciences 201. Physics of the Earth's Interior**

Catalog Number: 4004

*Richard J. O'Connell*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

The properties and processes of the solid Earth: Continuum mechanics; structure and state of the Earth's interior; gravity and the geoid; viscous creep and mantle flow; rotational dynamics; heat transport and mantle convection.

*Prerequisite:* Applied Mathematics 105a and b, Physics 15 or equivalent. Preparation should be discussed with the instructor.

### **Earth and Planetary Sciences 203. Earthquakes and Faulting**

Catalog Number: 4472

*Brendan J. Meade and John H. Shaw*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Earthquake phenomenology in the context of plate tectonics. Continuum mechanics and elastic deformation. Earthquake cycle models and constraints from tectonic geodesy. Earthquake geology and paleoseismology. Deformation rates and fault system structure. Quantitative seismic hazard analysis.

*Note:* Expected to be omitted in 2006–07. Given in alternate years.

*Prerequisite:* Applied Mathematics 21a and 21b.

### **[Earth and Planetary Sciences 205. Data Analysis and Reduction in Earth Sciences]**

Catalog Number: 4426

*Adam M. Dziewonski and Göran Ekström*

*Half course (fall term). Hours to be arranged.*

Fundamentals of statistical data analysis and error estimation; model building using linear inversion; model resolution; discrete sampling of time or space series; Fourier series and transforms; digital and matched filter design; wavelet analysis.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Applied Mathematics 105a; may be taken concurrently.

### **\*Earth and Planetary Sciences 207r. Geochemical Oceanography**

Catalog Number: 1602

*Daniel P. Schrag*

*Half course (fall term). Hours to be arranged.*

Topics in low-temperature geochemistry, oceanography, and climatology will be discussed. Students will read and present journal articles on relevant topics, and will rotate responsibility for leading discussions.

*Note:* Given in alternate years.

### **[\*Earth and Planetary Sciences 231. Climate Dynamics]**

Catalog Number: 6492

*Eli Tziperman*



*Half course (spring term). Hours to be arranged.*

Climate variability phenomena and mechanisms. From El Nino and thermohaline circulation variability to millennial and glacial-interglacial variability; hierarchical modeling approach from toy models to GCMs.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Background in geophysical fluid dynamics or permission of instructor.

### **Earth and Planetary Sciences 232. Dynamic Meteorology**

Catalog Number: 5344

*Brian F. Farrell*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The atmosphere understood as a fluid dynamical system. Observations of atmospheric motions related to weather and climate. Application of the equations of atmospheric dynamics to explaining phenomena such as jet streams, cyclones and fronts.

*Prerequisite:* Applied Mathematics 105b or permission of instructor.

### **Earth and Planetary Sciences 236. Environmental Modeling and Analysis**

Catalog Number: 7250

*Steven C. Wofsy and Daniel J. Jacob*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduction to atmospheric chemistry and biogeochemistry. Atmospheric transport processes, Eulerian and Lagrangian model frameworks, forward and inverse methods. Analysis of environmental data: visualization, time series analysis, Monte Carlo methods, statistical assessment. Students prepare projects and presentations.

*Note:* Students specializing in this area are expected to take EPS 200 and 236. These courses may serve as an introduction to atmospheric and oceanic processes for other students with strong preparation.

*Prerequisite:* Applied Mathematics 105b (may be taken concurrently), Physics 11a, b or 15, and Chemistry 15, or more advanced courses; or permission of the instructors.

### **Earth and Planetary Sciences 237. Advanced Biogeochemistry**

Catalog Number: 9320

*Ann Pearson*

*Half course (spring term). W., F., 1–2:30. EXAM GROUP: 6, 7*

Covers topics from EPS 137 at in-depth, accelerated pace. Course emphasizes reactions at the molecular and isotopic level using biomarkers to understand natural processes. Considers complex microbial assemblages with attention to current and ancient records of earth systems.

*Prerequisite:* EPS 137 or equivalent, or permission of instructor.

### **Earth and Planetary Sciences 238. Spectroscopy and Radiative Transfer of Atmospheres**

Catalog Number: 1891

*Kelly V. Chance*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Absorption, emission, and scattering, emphasizing Earth's atmosphere. Atmospheric spectroscopic properties for various measurement geometries. Quantitative spectroscopy and atmospheric structure are reviewed. Radiative transfer modeling and simulation and



interpretation of atmospheric spectra from microwave through ultraviolet.

*Note:* Given in alternate years.

*Prerequisite:* Ability to program in a high-level computer language (may be learned in parallel with the permission of the instructor).

**[Earth and Planetary Sciences 240. Geochemical Transport and Kinetics]**

Catalog Number: 0187

*Stein B. Jacobsen*

*Half course (spring term). Hours to be arranged.*

Irreversible thermodynamics, heat flow and diffusion. K-U-Th geochemistry. Mass transfer between geochemical reservoirs; modeling of mantle melting, mantle and crustal evolution, geochemical cycles. Determination of temperature-time-pressure histories of rocks from radiogenic isotopes and phase equilibria.

*Note:* Expected to be given in 2006–07. Applied Mathematics 105a, b are recommended. Given in alternate years.

*Prerequisite:* EPS 140, Mathematics 21a, b or Applied Mathematics 21a, b.

**Earth and Planetary Sciences 241. Isotope Geochemistry and the Evolution of the Earth's Interior**

Catalog Number: 1680

*Stein B. Jacobsen and Sujoy Mukhopadhyay*

*Half course (spring term). Hours to be arranged.*

The composition of the Earth. Application of radiogenic and stable isotopes to study the processes of formation and evolution of the Earth's crust, mantle and core. Geochemical cycles of elements in the solid Earth.

*Note:* Given in alternate years.

**[Earth and Planetary Sciences 242. Low Temperature Geochemistry (formerly Biogeochemistry of Light Stable Isotopes)]**

Catalog Number: 8808 Enrollment: Limited to 10.

*Daniel P. Schrag and Ann Pearson*

*Half course (fall term). Hours to be arranged.*

Introduction to the theory and methodology of stable isotope biogeochemistry. Topics include isotope ratio mass spectrometry, biological fractionation of carbon and nitrogen isotopes, distribution of isotopes in terrestrial and marine ecosystems, and applications to climate reconstruction.

*Note:* Expected to be given in 2006–07. Given in alternate years.

**Earth and Planetary Sciences 243. Geochemical and Cosmochemical Thermodynamics II**

Catalog Number: 2002

*Stein B. Jacobsen*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

For description, see EPS 140. Lectures and problem sets are the same as for EPS 140, but additional work on advanced problems in chemical thermodynamics is required for graduate credit.

*Note:* Given in alternate years.



*Prerequisite:* Chemistry 15 or equivalent; Mathematics 21a or Applied Mathematics 21a (may be taken concurrently).

**\*Earth and Planetary Sciences 244. Noble Gas Geochemistry**

Catalog Number: 1573

*Sujoy Mukhopadhyay*

*Half course (fall term). Hours to be arranged.*

Principles of noble gas geochemistry and geochronology and its application to specific problems in Earth and planetary sciences. Topics include surface exposure dating, (U-Th)/He and Ar-Ar thermochronometry, paleoclimatology, mantle evolution, and models of planetary atmosphere formation.

*Note:* Given in alternate years.

*Prerequisite:* Intended for graduates and advanced undergraduate students involved in geochemistry research. Permission of instructor.

**[Earth and Planetary Sciences 250. Topics in Planetary Sciences]**

Catalog Number: 1225

*Sarah Stewart-Mukhopadhyay*

*Half course (fall term). Hours to be arranged.*

Research seminar on current problems in planetary sciences. Topics: impact processes, planetary surface processes, planet formation, and subjects related to current spacecraft missions.

*Note:* Expected to be given in 2006–07. Given in alternate years or upon announcement.

**[Earth and Planetary Sciences 260. Topics in Geophysics]**

Catalog Number: 2908

*Richard J. O'Connell and Jeremy Bloxham*

*Half course (spring term). Hours to be arranged.*

Research seminar on current important problems on the state and processes of the solid Earth. Topics may include mantle structure and geochemistry, the core-mantle boundary, the continental lithosphere.

*Note:* Expected to be given in 2006–07. This course is coordinated with a research course at MIT.

**[Earth and Planetary Sciences 263. Earthquake Source Processes]**

Catalog Number: 0542

*James R. Rice*

*Half course (fall term). Hours to be arranged.*

Science of earthquakes including physics of source processes. Elastodynamics; seismic radiation; quantification of earthquakes; slip inversions. Fault strength and rheology; friction and fracture theory. Seismotectonics; stressing and seismicity in the earthquake cycle; earthquake interactions.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* EPS 166 or equivalent and further study at the 200 level in seismology or solid mechanics.



**Earth and Planetary Sciences 264r. Topics in Planetary Magnetism**

Catalog Number: 1429

*Jeremy Bloxham*

*Half course (fall term). Hours to be arranged.*

Theoretical and observational aspects of planetary magnetism. Topics: observations of Earth's and other planets magnetic fields; core structure, dynamics and energetics; rotation and convection; magnetohydrodynamics and magnetic field generation; kinematic and dynamic dynamo theory.

*Prerequisite:* Applied Mathematics 105a,b, Physics 153 or equivalent, or permission of instructor.

**Earth and Planetary Sciences 265r. Topics in Geodynamics**

Catalog Number: 0816

*Richard J. O'Connell*

*Half course (spring term). Hours to be arranged.*

Topics in the dynamics of processes and properties in the Earth's interior, including: thermal convection and flow in the mantle, rheology of the mantle, plate motions, plate deformation, physical properties of rocks and minerals.

**[Earth and Planetary Sciences 267. Global Seismology]**

Catalog Number: 4091

*Adam M. Dziewonski and Göran Ekström*

*Half course (spring term). Hours to be arranged.*

Theory and observational techniques used in the study of waves in the Earth. Free oscillations of a spherical Earth. Surface and body waves: dispersion attenuation, refraction and reflection.

Seismic source representation; centroid-moment tensor analysis.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Applied Math 105a, b or EPS 166 or equivalent preparation.

**Earth and Planetary Sciences 268r. Topics in Seismology: Earthquakes**

Catalog Number: 3021

*Göran Ekström*

*Half course (spring term). Hours to be arranged.*

Observational and computational methods for determining earthquake parameters from seismic data. The relationship of earthquakes to lithospheric plate motions and global tectonic processes.

*Note:* Given in alternate years.

*Prerequisite:* EPS 166, or equivalent.

**[Earth and Planetary Sciences 270r. Structural Interpretation of Seismic Data]**

Catalog Number: 8230

*John H. Shaw*

*Half course (fall term). Hours to be arranged.*

Methods of interpreting complex geologic structures imaged in 2 and 3-dimensional seismic reflection data. Methods of integrated geologic and remote sensing data will be described.

Students will complete independent projects analyzing seismic data on workstations.



*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* EPS 171 or equivalent.

**[Earth and Planetary Sciences 271r. Topics in Pre-Quaternary Geoscience ]**

Catalog Number: 2515

*Paul F. Hoffman*

*Half course (spring term). Hours to be arranged.*

Students will read and discuss sets of papers on exciting topics in the current literature.

*Note:* Expected to be given in 2006–07.

**Earth and Planetary Sciences 272r. Topics in Structural Geology**

Catalog Number: 1546

*John H. Shaw*

*Half course (fall term). Hours to be arranged.*

Seminar course investigating recent advances in structural geology and exploration geophysics with applications in earthquake science and the petroleum industry. Specific topics vary from year to year.

*Note:* Given in alternate years.

*Prerequisite:* EPS 171 or equivalent. Intended for graduate and advanced undergraduate students involved in structural geology research.

**Earth and Planetary Sciences 281r. Great Papers in Earth and Planetary Sciences**

Catalog Number: 2474

*Paul F. Hoffman*

*Half course (spring term). W., F., at 4. EXAM GROUP: 9*

Students will read and discuss paradigm-altering papers from the full range of the Earth and planetary sciences. The aim is to expose conceptual foundations and historical developments, and to appreciate what makes great papers great.

**[Earth and Planetary Sciences 285r. Analytical Paleontology ]**

Catalog Number: 2132

*Charles R. Marshall*

*Half course (fall term). Hours to be arranged.*

The use of analytic methods in paleobiology. Topics include: determining times of origin and extinction; dissecting biodiversity dynamics; assessing the absolute completeness of the fossil record; stratigraphy and phylogeny reconstruction, etc.

*Note:* Expected to be given in 2007–08. Given in alternate years.

***Cross-listed courses***

**Astronomy 225. Formation of Stars and Planets**

**Engineering Sciences 240. Solid Mechanics**

**[Engineering Sciences 241. Advanced Elasticity]**

**Engineering Sciences 265. Advanced Environmental Geomechanics**

**OEB 208r (formerly Biology 208). Issues in Historical Paleobiology: Seminar**



***Graduate Courses of Reading and Research***

**\*Earth and Planetary Sciences 320. Topics in Planetary Sciences**

Catalog Number: 6050

*Sarah Stewart-Mukhopadhyay 4637*

**\*Earth and Planetary Sciences 330. Climate Atmospheric Chemistry and Free Radical Kinetics**

Catalog Number: 3810

*James G. Anderson 6057*

**\*Earth and Planetary Sciences 331. Atmospheric Chemistry**

Catalog Number: 4038

*Daniel J. Jacob 1781*

**\*Earth and Planetary Sciences 332. Dynamic Meteorology**

Catalog Number: 2802

*Brian F. Farrell 7628*

**\*Earth and Planetary Sciences 334. Atmospheric Physics and Chemistry**

Catalog Number: 4886

*Michael B. McElroy 2462*

**\*Earth and Planetary Sciences 335. Climate Dynamics and Physical Oceanography**

Catalog Number: 3095

*Eli Tziperman 4748*

**\*Earth and Planetary Sciences 336. Geophysical Fluid Dynamics**

Catalog Number: 8851

*Eli Tziperman 4748*

**\*Earth and Planetary Sciences 337. Biological Oceanography**

Catalog Number: 5704

*James J. McCarthy 4343*

**\*Earth and Planetary Sciences 338. Atmospheric Chemistry**

Catalog Number: 7596

*Steven C. Wofsy 4396*

**\*Earth and Planetary Sciences 339. Biogeochemistry**

Catalog Number: 9843

*Ann Pearson 4224*

**\*Earth and Planetary Sciences 340. Topics in Isotope Geochemistry: Research Seminar**

Catalog Number: 2881

*Stein B. Jacobsen 7212*





**\*Earth and Planetary Sciences 341. Isotope Geochemistry**

Catalog Number: 7103

*Stein B. Jacobsen 7212*

**\*Earth and Planetary Sciences 342. Topics in Atmospheric and Climate Dynamics**

Catalog Number: 1732

*Zhiming Kuang 5285*

**\*Earth and Planetary Sciences 344. Topics in Stable Isotope Geochemistry and Geochemical Oceanography**

Catalog Number: 6291

*Daniel P. Schrag 3054*

**\*Earth and Planetary Sciences 345. Solid Earth Geochemistry**

Catalog Number: 7979

*Charles H. Langmuir 4293*

**\*Earth and Planetary Sciences 346. Topics in Noble Gas Geochemistry**

Catalog Number: 2928

*Sujoy Mukhopadhyay 4621*

**\*Earth and Planetary Sciences 347. Topics in Environmental Policy**

Catalog Number: 4360

*John P. Holdren (Kennedy School, FAS) 2673*

**\*Earth and Planetary Sciences 362. Dynamo Theory: Research Seminar**

Catalog Number: 1840

*Jeremy Bloxham 2047*

**\*Earth and Planetary Sciences 363. Seismology and Tectonophysics: Geomechanics, Earthquake Source Physics**

Catalog Number: 8664

*James R. Rice 7270*

**\*Earth and Planetary Sciences 364. Geophysics**

Catalog Number: 1438

*Jeremy Bloxham 2047*

**\*Earth and Planetary Sciences 365. Geophysics**

Catalog Number: 5632

*Richard J. O'Connell 3642*

**\*Earth and Planetary Sciences 367. Seismology**

Catalog Number: 4447

*Adam M. Dziewonski 3641 (on leave spring term)*



**\*Earth and Planetary Sciences 368. Seismology**

Catalog Number: 4932

*Göran Ekström 2682*

**\*Earth and Planetary Sciences 369. Topics in Active Tectonics**

Catalog Number: 5904

*Brendan J. Meade 5340*

**\*Earth and Planetary Sciences 370. Structural Analysis**

Catalog Number: 9046

*John H. Shaw 3699*

**\*Earth and Planetary Sciences 380. Precambrian Geology**

Catalog Number: 1161

*Paul F. Hoffman 1507*

**\*Earth and Planetary Sciences 385. Analytical Paleontology**

Catalog Number: 8129

*Charles R. Marshall 2823 (on leave fall term)*

**\*Earth and Planetary Sciences 387. Paleobotany**

Catalog Number: 6983

*Andrew H. Knoll 7425*

## East Asian Languages and Civilizations

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of East Asian Languages and Civilizations*

Michael J. Puett, Professor of Chinese History (*Chair*)

Ryuichi Abe, Reischauer Institute Professor of Japanese Religions

Mikael Adolphson, Associate Professor of Japanese History

Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations

Harold Bolitho, Professor of Japanese History

Min Chen, Preceptor in Chinese

Eileen Cheng-yin Chow, Assistant Professor of Chinese Literary and Cultural Studies

Edwin A. Cranston, Professor of Japanese Literature (*on leave 2005-06*)

Carter J. Eckert, Yoon Se Young Professor of Korean History

Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History



Shengli Feng, Professor of the Practice of Chinese Language (*Director of the Chinese Language Program*)  
 Yu Feng, Preceptor in Chinese  
 Robert M. Gimello, Visiting Professor of East Asian Studies and Religious Studies (*University of Arizona*)  
 Andrew Gordon, Lee and Juliet Folger Fund Professor of History  
 Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society  
 Siao-chen Hu, Visiting Associate Professor of East Asian Languages and Civilizations (*Institute of Chinese Literature and Philosophy, Academia Sinica*)  
 Wenze Hu, Preceptor in Chinese  
 Hui-Yen Huang, Preceptor in Chinese  
 Wilt Lukas Idema, Professor of Chinese Literature (*on leave 2005-06*)  
 Wesley M. Jacobsen, Professor of the Practice of Japanese Language (*Director of the Japanese Language Program*)  
 Yuko Kageyama-Hunt, Preceptor in Japanese  
 Adam L. Kern, Assistant Professor of Japanese Literature  
 Mi-Hyun Kim, Preceptor in East Asian Languages and Civilizations  
 Sun Joo Kim, Associate Professor of Korean History  
 Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations (*on leave fall term*)  
 Joanna C. Kuriyama, Preceptor in East Asian Languages and Civilizations  
 Shigehisa Kuriyama, Reischauer Institute Professor of Cultural History  
 Wai-yee Li, Professor of Chinese Literature (*Head Tutor*)  
 Haohsiang Liao, Preceptor in Chinese  
 Felicity A. Lufkin, Lecturer on East Asian Languages and Civilizations (*fall term only*)  
 Satomi Matsumura, Senior Preceptor in Japanese  
 David McCann, Korea Foundation Professor of Korean Literature  
 Melissa M. McCormick, Associate Professor of East Asian Languages and Civilizations (*on leave 2005-06*)  
 Itsuko Nakamura, Preceptor in Japanese  
 Binh Ngo, Preceptor in Vietnamese (*Director of the Vietnamese Language Program*)  
 Sang-suk Oh, Senior Preceptor in Korean (*Director of the Korean Language Program*)  
 Stephen Owen, James Bryant Conant University Professor  
 Esperanza Ramirez-Christensen, Edwin O. Reischauer Visiting Professor of Japanese Studies (*University of Michigan*)  
 Jay Rubin, Takashima Professor of Japanese Humanities (*on leave spring term*)  
 Michael A. Szonyi, Associate Professor of East Asian Languages and Civilizations  
 Xiaofei Tian, Associate Professor of Chinese Literature  
 Wei-Ming Tu, Harvard-Yenching Professor of Chinese History and Philosophy and of Confucian Studies  
 Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies  
 David Der-Wei Wang, Edward C. Henderson Professor of Chinese Literature  
 Xuedong Wang, Preceptor in Chinese  
 Endymion P. Wilkinson, Lecturer on East Asian Languages and Civilizations  
 Emi Yamanaka, Preceptor in Japanese



***Other Faculty Offering Instruction in East Asian Languages and Civilizations***

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)  
Patrick D. Hanan, Victor S. Thomas Professor of Chinese Literature, Emeritus

***Committee for the Social Science Program in East Asian Studies of the Department of East Asian Languages and Civilizations***

Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*Chair*)  
Theodore C. Bestor, Professor of Anthropology  
Carter J. Eckert, Yoon Se Young Professor of Korean History  
Alastair Iain Johnston, Governor James Albert Noe Sr. and Linda and Christel Noe Laine Kelley Professor of China in World Affairs  
William C. Kirby, Edith and Benjamin Geisinger Professor of History and Dean of the Faculty of Arts and Sciences  
Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science  
Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)  
Elizabeth J. Perry, Henry Rosovsky Professor of Government (*on leave spring term*)  
Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics (*on leave spring term*)  
James L. Watson, Harvard College Professor and John King and Wilma Cannon Fairbank Professor of Chinese Society

Courses listed under the Department of East Asian Languages and Civilizations begin with department tutorials and then are grouped by area: China, Japan, Korea, Manchu, Mongolia, Tibet, and Vietnam. Each area is divided into language, history, and literature courses, then “Graduate Courses of Reading and Research,” and concludes with cross-listings from other departments. Please note that courses under each heading are categorized as either “For Undergraduates and Graduates” or “Primarily for Graduates.”

The concentration draws upon faculty working on East Asian topics from the Department of East Asian Languages and Civilizations and from other departments. It offers both a humanities track, in which the history, literature, philosophy, and religion of premodern and modern times are studied, and a social science track, stressing approaches to modern East Asia drawn from the social science disciplines.

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

***East Asian Studies***

***Primarily for Undergraduates***

**[\\*East Asian Studies 91r. Supervised Reading and Research](#)**

Catalog Number: 0961



*Wai-ye Li and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Open to students who have given evidence of ability to do independent reading and research. May be taken on an individual basis or by small groups of students interested in working on the same topic. Permission of the East Asian Studies Head Tutor required.

**\*East Asian Studies 97r. Tutorial — Sophomore Year**

Catalog Number: 0306

*Michael J. Puett (fall term), Eileen Cheng-yin Chow (spring term), and members of the Department*

*Half course (fall term; repeated spring term). Fall: Tu., 2–3:30; Th., 3–5; Spring: Tu., 2–3:30.*

*EXAM GROUP: 16, 17*

*Note:* Required of sophomore concentrators.

**\*East Asian Studies 98r. Tutorial — Junior Year**

Catalog Number: 0342

*Wai-ye Li and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of junior concentrators. Divided into sections specializing in China, Japan, Korea, and Vietnam.

**\*East Asian Studies 99. Tutorial — Senior Year**

Catalog Number: 0384

*Wai-ye Li and members of the Department*

*Full course. Hours to be arranged.*

*Thesis guidance under faculty direction.*

***For Undergraduates and Graduates***

**East Asian Studies 125. Chinese Visual Culture: The Woodcut Popular Print**

Catalog Number: 5829

*Felicity A. Lufkin*

*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

Woodcut printed pictures were a tremendously popular art form in 19th-century China. They were enjoyed as decoration and entertainment within the home, and also figured in popular religious observance. We look at the ways scholars have approached popular prints as an artistic and cultural form, and examine the symbolic values, narrative structures, and religious functions of Chinese popular prints.

**East Asian Studies 127. China on Display: Art Exhibitions and Images of the Chinese Nation in the 19th and 20th Centuries**

Catalog Number: 9114

*Felicity A. Lufkin*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

The exhibition of Chinese art, whether at the World Fairs, in the dueling National Palace Museums of Beijing and Taipei, or in the galleries of New York, has often been used to construct



and contest images of China's status and potential power as a nation. We examine how exhibitions have linked art and Chinese national identity, drawing on recent theoretical work on the practice of exhibition.

*Note:* Readings and discussions in English.

### **East Asian Studies 140. Major Religious Texts of East Asia**

Catalog Number: 0856

*Ryuichi Abe*

*Half course (spring term). Th., 2–4:30. EXAM GROUP: 16, 17, 18*

This course aims at enabling students to read and analyze in depth major religious texts of East Asia, representing diverse traditions and genres. The course encourages students to take up their reading of texts not only as ways to acquire knowledge on Asian religious traditions, but as practice, labor, and play in which their ordinary way of understanding/experiencing the world and themselves will be challenged, reaffirmed, and renewed.

### **East Asian Studies 160. Three Forms of Asian Poetry: Reading and Composition/Imitation**

Catalog Number: 0327

*David McCann*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Readings in selected Chinese, Japanese, and Korean verse forms, and composition or imitation in English. Study of Li Po and Tu Fu (Chinese quatrain), Basho (haiku and haibun mixed prose and poetry), Yun Sôn-do and other Korean poets (shijo), and composition/imitation. Final project, an extended suite of poems or mixed prose and poetry.

*Note:* No Asian language knowledge is required; all writing will be in English.

### **East Asian Studies 170. Medicine and the Body in East Asia and in Europe**

Catalog Number: 5700

*Shigehisa Kuriyama*

*Half course (fall term). M., W., at 10, and a biweekly meeting F., at 10. EXAM GROUP: 3*

Comparative historical exploration of the striking differences and unexpected similarities between traditional conceptions of the body in East Asian and European medicine; the evolution of beliefs within medical traditions; the relationship between traditional medicine and contemporary experience.

***Primarily for Graduates***

### **East Asian Studies 211. Historical Theory and Methods**

Catalog Number: 3088

*Michael J. Puett*

*Half course (spring term). Tu., 1:30–3:30. EXAM GROUP: 15, 16, 17*

Theories and methods for research in East Asian history. Covers approaches to social, cultural, intellectual, and political history, analyzing significant works in each field and applications to Chinese, Japanese, and Korean materials.

### **East Asian Studies 230. The History of East Asian Medicine: Seminar**

Catalog Number: 0544



*Shigehisa Kuriyama*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Introduction to research on East Asian medicine: historiography, methods, new horizons.

### ***East Asian Buddhist Studies***

#### ***For Undergraduates and Graduates***

#### **[East Asian Buddhist Studies 114. The Mahâyâna in East Asia: Bodhisattvas and Their Cults in Medieval and Early Modern East Asian Buddhism]**

Catalog Number: 9159 Enrollment: Limited to 20.

*Robert M. Gimello (University of Arizona)*

*Half course (spring term). Hours to be arranged.*

Explores the character of East Asian Mahâyâna Buddhism as revealed in the systematic exposition of its doctrines, and in its cultic practices, beliefs, and iconography. Taking the bodhisattva as the fullest embodiment of Mahâyâna's ideals and the chief focus of its piety, we'll trace the transformations wrought in the cults and images of the great bodhisattvas—particularly Manjusri—from the 2nd through 12th century during Buddhism's encounter principally with Chinese but also with Korean and Japanese civilization.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3560.

#### **[East Asian Buddhist Studies 115. Buddhist Meditation Traditions]**

Catalog Number: 6958

*Robert M. Gimello (University of Arizona)*

*Half course (spring term). Hours to be arranged.*

Focusing particularly on Buddhism in East Asia, and relying chiefly on English translations of primary canonical and paracanonical sources, we examine a variety of specific meditation curricula while also posing theoretical questions about the relationship between meditation and Buddhist doctrine, the value of meditation in the moral lives of Buddhist individuals and communities, the influence of meditation upon Buddhist art, the connection between meditation and Buddhist ritual, etc.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3561.

#### **East Asian Buddhist Studies 116a. Buddhism in China: I-VII Century**

Catalog Number: 9937

*Robert M. Gimello (University of Arizona)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A survey of the history of Buddhist thought and practice in East Asia from its advent in Han China to the emergence of distinctly East Asian traditions of Buddhist thought and practice in the early Tang, with attention also to the early transmission of Buddhism to Korea, Japan, and Vietnam.

*Note:* Offered jointly with the Divinity School as 3521.

#### **East Asian Buddhist Studies 116b. Buddhism in China: VIII-XVI Century**

Catalog Number: 9214

*Robert M. Gimello (University of Arizona)*





*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A survey of the history of Buddhist thought and practice in mid-Tang through Ming China, with attention also to developments during the same period in Korea, Vietnam, and Japan.

*Note:* Offered jointly with the Divinity School as 3526.

**[East Asian Buddhist Studies 120. Buddhist Apologetics in East Asia]**

Catalog Number: 0692

*Robert M. Gimello (University of Arizona)*

*Half course (spring term). Hours to be arranged.*

A treatment of the process by which Buddhism in China, Korea, and Japan came to define itself either over and against other religious and intellectual traditions like Confucianism, Daoism, and Shintō or in ecumenical relation to them. Historical examples of Buddhism's response to other traditions are considered in light of modern theories of inter-religious dialogue.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3524.

***Primarily for Graduates***

**East Asian Buddhist Studies 210r. Topics in East Asian Buddhism: Buddhism in Modern China**

Catalog Number: 7624

*Robert M. Gimello (University of Arizona)*

*Half course (spring term). W., 2–5. EXAM GROUP: 7, 8, 9*

Examination of various themes and issues in the history of medieval and modern Chinese, Korean, and/or Japanese Buddhism. The subject this year will be Buddhism in modern China.

*Prerequisite:* Reading knowledge of classical Chinese.

**[East Asian Buddhist Studies 213. Buddhism and Literati Culture in the Song Dynasty]**

Catalog Number: 4690

*Robert M. Gimello (University of Arizona)*

*Half course (spring term). Hours to be arranged.*

Graduate reading course on relations between monks and literati in the Song period.

*Note:* Expected to be given in 2006–07.

**East Asian Buddhist Studies 220. Pilgrimage and Sacred Sites in China**

Catalog Number: 8720

*Robert M. Gimello (University of Arizona)*

*Half course (fall term). W., 2–5. EXAM GROUP: 7, 8, 9*

A study of pilgrimage as a Chinese religious practice, and of pilgrimage destinations as sacred sites. Special emphasis on Buddhist sacred mountains, with some comparative consideration of pilgrimage and sacred sites in Daoism and Confucianism.

**East Asian Buddhist Studies 240r (formerly East Asian Buddhist Studies 240). Japanese Buddhist Doctrine and Monastic Culture**

Catalog Number: 3768

*Ryuichi Abe*

*Half course (fall term). W., 10:30–12:30. EXAM GROUP: 3, 4, 5*



A graduate seminar aimed at improving students' ability to read and analyze scriptural sources in the context of textual, artistic, and other cultural productions centered around large monasteries in premodern Japan.

*Prerequisite:* Classical Japanese and *Kambun* are required.

**[East Asian Buddhist Studies 245. Ritual and Text in Japanese Buddhist Literature]**

Catalog Number: 7113

*Ryuichi Abe*

*Half course (spring term). Hours to be arranged.*

Examines the way in which rituals are approached, described, and interpreted in primary Japanese Buddhist texts. Students will acquire skills allowing them to move freely in their reading of texts from diverse literary genres.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Classical Japanese and *Kambun*.

**East Asian Buddhist Studies 250. The Esoteric Turn in East Asian Buddhism**

Catalog Number: 4459

*Robert M. Gimello (University of Arizona) and Ryuichi Abe*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

An exploration of the emergence of the Buddhist esoterism (*Mijiao/ Mikkyô*) in medieval East Asia, with special attention to views of major Chinese and Japanese Buddhist thinkers concerning its relationship to exoteric Mahâyâna (*Xianjiao/Kenkyô*).

***Graduate Courses of Reading and Research***

**\*East Asian Buddhist Studies 300. Reading and Research**

Catalog Number: 9811

*Robert M. Gimello (University of Arizona) 9240, Ryuichi Abe 4974, and Janet Gyatso (Divinity School) 4243*

***Cross-listed courses***

**\*History of Art and Architecture 288m. Transmissions: Art and Zen Buddhism**

**[Religion 1700. Introduction to Buddhism, in Theory and Practice]**

**Religion 1708. Issues in Buddhist Philosophy: Conference Course**

**[Religion 1710. Buddhist Ethics: Seminar]**

**[Religion 1730. Buddhist Women and Representations of the Female: Conference Course]**

**Religion 2710r. Buddhist Studies: New Work in the Field: Seminar**

**\*South Asian Buddhist Studies 303. Reading and Research**

***China: Language Courses***

***For Undergraduates and Graduates***

**Chinese Aab. Intensive Elementary Modern Chinese**

Catalog Number: 0625



Wenze Hu

*Full course (fall term). M. through F., 1–3. EXAM GROUP: 6, 7*

Intensive introduction to modern standard (Mandarin) Chinese pronunciation, grammar, conversation, reading, and writing.

*Note:* Satisfies prerequisite for second-year Chinese.

### **Chinese Ba. Elementary Modern Chinese**

Catalog Number: 4375

Min Chen

*Half course (fall term). Sections Tu., Th., 9, 10, 12, or 2, and three additional hours to be arranged. EXAM GROUP: 11, 12*

Nonintensive introduction to modern Chinese pronunciation, grammar, conversation, reading, and writing.

*Note:* No auditors. May not be taken Pass/Fail.

### **Chinese Bb. Elementary Modern Chinese**

Catalog Number: 8714

Min Chen

*Half course (spring term). Sections Tu., Th., 9, 10, or 2; and three additional hours to be arranged. EXAM GROUP: 11*

Continuation of Chinese Ba.

*Note:* No auditors. May not be taken Pass/Fail.

*Prerequisite:* Chinese Ba or equivalent.

### **Chinese Bx. Elementary Chinese for Advanced Beginners**

Catalog Number: 7066

Hui-Yen Huang

*Half course (fall term). M., W., F., at 10 or 2, and two additional hours to be arranged. EXAM GROUP: 3, 7*

For students with significant listening and speaking background. Introductory Modern Chinese language course, with emphasis on reading and writing. Covers in one term the equivalent of Chinese Ba and Bb.

*Note:* No auditors. May not be taken Pass/Fail. Students must pass a test in listening and speaking to take the course.

### **Chinese Ca (formerly Chinese 108a). Cantonese**

Catalog Number: 0223

Shengli Feng

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Nonintensive introduction to Cantonese dialect. Emphasizes basic pronunciation and colloquial usage.

*Note:* Primarily intended for non-native speakers who will conduct research in a Cantonese-speaking locale.

*Prerequisite:* Two years formal study of Mandarin.



**Chinese Cb (formerly Chinese 108b). Cantonese**

Catalog Number: 0831

*Shengli Feng*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Continuation of Chinese Ca.

*Note:* Primarily intended for non-native speakers who will conduct research in a Cantonese-speaking locale.

*Prerequisite:* Two years formal study of Mandarin and Chinese Ca or equivalent.

**[Chinese Ma (formerly Chinese 115a). Beginning Taiwanese Conversation (Southern Min)]**

Catalog Number: 2299

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*Half course (fall term). Hours to be arranged.*

Non-intensive introduction to Taiwanese (Minnan dialect). Emphasizes basic pronunciation and colloquial usage.

*Note:* Expected to be given in 2006–07. No auditors. Intended for non-native speakers.

**[Chinese Mb (formerly Chinese 115b). Beginning Taiwanese Conversation (Southern Min)]**

Catalog Number: 5696

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*Half course (spring term). Hours to be arranged.*

Continuation of Chinese Ma.

*Note:* Expected to be given in 2006–07. No auditors. Intended for non-native speakers.

*Prerequisite:* Chinese Ma or permission of the instructor.

**Chinese 100. Mandarin Pronunciation and Grammar for Speakers of Cantonese Dialects**

Catalog Number: 7291

*Shengli Feng*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An introduction to modern Chinese pronunciation. Offering a systematic contrast and comparison between the sound and syntactic systems of the two dialects, for students who are native speakers of Cantonese and have a strong background in reading. Those who wish to continue will be prepared for Chinese 113b, Advanced Conversational Chinese.

**[Chinese 111r. Readings in Modern Chinese Literature and Culture]**

Catalog Number: 7049

*Xiaofei Tian*

*Half course (fall term). Hours to be arranged.*

Essay has always been an important genre in Chinese literature. This year's topic will be a survey of the modern Chinese essay in the first half of the twentieth century. We will read a series of narrative and lyrical essays by Lu Xun, Zhou Zuoren, Yu Dafu, Feiming, Shen Congwen, Wang Zengqi, Su Qing, and Zhang Ailing (Eileen Chang), and discuss their literary and cultural implications.

*Note:* Expected to be given in 2006–07. Conducted entirely in Chinese.

*Prerequisite:* Three years of modern Chinese or the equivalent.



**Chinese 120a (formerly Chinese 101a). Intermediate Modern Chinese**

Catalog Number: 4283

Xuedong Wang

*Half course (fall term). Sections Tu., Th., at 10, 12, or 2, and three additional hours to be arranged. EXAM GROUP: 12*

Modern texts, conversation, reading, and composition.

*Note:* No auditors. May not be taken pass/fail.

*Prerequisite:* Chinese Bb or equivalent.

**Chinese 120b (formerly Chinese 101b). Intermediate Modern Chinese**

Catalog Number: 1702

Xuedong Wang

*Half course (spring term). Sections Tu., Th., at 10, 12, or 2, and three additional hours to be arranged. EXAM GROUP: 12*

Continuation of Chinese 120a.

**Chinese 123b (formerly Chinese 101x). Intermediate Modern Chinese for Advanced Beginners**

Catalog Number: 7034

Hui-Yen Huang

*Half course (spring term). Sections M., W., F. at 10 or 2, and two additional hours to be arranged. EXAM GROUP: 3, 7*

Continuation of Chinese Bx. Covers in one term the equivalent of Chinese 120a and 120b.

**[Chinese 124a (formerly Chinese 116a). Intermediate Taiwanese Conversation (Southern Min)]**

Catalog Number: 8491

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*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. No auditors.

*Prerequisite:* Continuation of Chinese Mb or equivalent.

**[Chinese 124b (formerly Chinese 116b). Intermediate Taiwanese Conversation (Southern Min) ]**

Catalog Number: 2565

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*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. No auditors.

*Prerequisite:* Continuation of Chinese 124a or equivalent.

**Chinese 125ab (formerly Chinese 102ab). Intensive Intermediate Modern Standard Chinese**

Catalog Number: 0977

Wenze Hu

*Full course (spring term). M. through F., 1–3. EXAM GROUP: 6, 7*

Continuation of Chinese Aab.



*Note:* Satisfies prerequisite for third year Chinese.

*Prerequisite:* Chinese Aab, or Ba and Bb, or equivalent.

**Chinese 130a (formerly Chinese 105a). Advanced Modern Chinese**

Catalog Number: 6724

*Haohsiang Liao*

*Half course (fall term). Sections M., W., F., at 10, 11, or 2, and two additional hours to be arranged. EXAM GROUP: 3, 4*

A study of writings selected from modern Chinese literature, academic works and newspaper articles aimed at enhancing and further developing the student's proficiency in modern Chinese language.

*Note:* Conducted in Chinese.

*Prerequisite:* Two years of modern Chinese.

**Chinese 130b (formerly Chinese 105b). Advanced Modern Chinese**

Catalog Number: 2917

*Haohsiang Liao*

*Half course (spring term). Sections M., W., F., at 10, 11, or 2, and two additional hours to be arranged. EXAM GROUP: 3*

Continuation of Chinese 130a.

*Note:* Conducted in Chinese.

*Prerequisite:* Chinese 130a.

**Chinese 140a (formerly Chinese 110a). Advanced Readings in Modern Chinese**

Catalog Number: 1945

*Yu Feng*

*Half course (fall term). Sections M., W., F., at 10, or 1, and two additional hours to be arranged. EXAM GROUP: 3*

Rapid reading of selections from books and articles.

*Note:* Conducted in Chinese.

*Prerequisite:* Chinese 130b.

**Chinese 140b (formerly Chinese 110b). Advanced Readings in Modern Chinese**

Catalog Number: 6844

*Yu Feng*

*Half course (spring term). Sections M., W., F., at 10, or 1, and two additional hours to be arranged. EXAM GROUP: 3*

Continuation of Chinese 140a.

**Chinese 142a (formerly Chinese 113a). Advanced Conversational Chinese**

Catalog Number: 3900

*Wenze Hu*

*Half course (fall term). Tu., Th., 10–11:30 and one additional hour to be arranged. EXAM GROUP: 12, 13*

Spoken Chinese for advanced students.

*Prerequisite:* Chinese 140a or equivalent.



**Chinese 142b (formerly Chinese 113b). Advanced Conversational Chinese**

Catalog Number: 1418

Wenze Hu

*Half course (spring term). Section I: Tu., Th., 10–11:30, Section II: Tu., Th., 2–3:30. One additional hour of speaking practice to be arranged. EXAM GROUP: 12, 13*

Spoken Chinese for advanced students.

*Prerequisite:* Chinese 130b, or equivalent.

**Chinese 150a. Formal Chinese Writing and Speaking**

Catalog Number: 5621 Enrollment: Limited to 10.

Yu Feng

*Half course (fall term). Tu., Th., at 10 and three additional hours to be arranged. EXAM GROUP: 12*

The purpose of this course is to enable students to acquire a comprehensive written grammar with sufficient formal vocabulary in modern Chinese. Formal patterns generated by combining single characters are used for the foundation of written grammar. This course also offers students authentic academic readings in order to improve their abilities in academic writing and formal speech. Students are required to write and present their essays in formal Chinese.

*Prerequisite:* Chinese 140b or equivalent.

**Chinese 150b. Formal Chinese Writing and Speaking**

Catalog Number: 8111 Enrollment: Limited to 10.

Shengli Feng

*Half course (spring term). Tu., Th., at 10 and three additional hours to be arranged. EXAM GROUP: 12*

Continuation of Chinese 150a.

*Prerequisite:* Chinese 150a.

**Chinese 163 (formerly Chinese 125). Business Chinese**

Catalog Number: 6558

Yu Feng

*Half course (spring term). M., W., at 11, and two additional hours to be arranged. EXAM GROUP: 4*

Designed for students interested in international business or for students who intend to work or travel for business in Chinese-speaking communities (including China, Taiwan, Hong Kong, and Singapore), or for students who desire to improve their Chinese language proficiency. An introduction to business and economic climates, practices and customs of these communities. Students learn specialized business and economic vocabulary and the principles of business correspondence.

*Note:* Conducted in Chinese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students.

*Prerequisite:* At least three years of Modern Chinese or equivalent (with instructor's permission).

**Chinese 180. Modern Chinese for Research**

Catalog Number: 0933





*Joanna C. Kuriyama*

*Half course (fall term; repeated spring term). Spring: Th., 2–4. EXAM GROUP: Spring: 16, 17*

This course aims to assist students engaged in research (senior theses, dissertations, etc.) involving the reading of modern Chinese. Instruction will center on the idiomatic expressions and syntactical structures of the texts that the students themselves bring in.

**[Chinese 185. Masterworks of Chinese Literature]**

Catalog Number: 8601

*Xiaofei Tian*

*Half course (spring term). Hours to be arranged.*

Introductory course on classical Chinese literature. We will engage in close reading of selected poems, classical prose works, and passages from fiction, with critical essays in Chinese. Students will develop skills for reading both literary Chinese and pre-modern vernacular, while learning the modern vernacular idioms of explaining and appreciating such works.

*Note:* Expected to be given in 2006–07. Taught in Chinese.

*Prerequisite:* One year of literary Chinese (*wenyan*) or the equivalent.

**[Chinese 187. Art and Violence in the Cultural Revolution]**

Catalog Number: 1253

*Xiaofei Tian*

*Half course (spring term). Hours to be arranged.*

This course examines the cultural implications of the Cultural Revolution (1966-1976) by asking how art was violent towards people and how violence was turned into an art. The course will consider fiction, essays, "revolutionary Peking operas," and movies produced during this period and about this period.

*Note:* Expected to be given in 2006–07. Conducted entirely in Chinese.

*Prerequisite:* At least three years of Mandarin or equivalent (with instructor's permission).

**[Chinese 188 (formerly Chinese 130). Traditional Chinese Philology]**

Catalog Number: 2801

*Shengli Feng*

*Half course (spring term). Hours to be arranged.*

Traditional Chinese philology consists of a set of principles and techniques in four major areas: paleography, historical phonology, exegesis, and historical syntax. Students will acquire proficiency in theories, principles, and techniques that enable them to decode the ancient language rationally and that facilitate their understanding and translation accurately.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Chinese 107b or equivalent.

**Chinese 190r. Traditional Philology: Study on *Shuowen Jiezi***

Catalog Number: 6550

*Shengli Feng*

*Half course (fall term). F., 1–4. EXAM GROUP: 6, 7, 8*

This course will focus on the sound-graph-and-meaning system of *Shuowen Jiezi* (the First Comprehensive Chinese Dictionary). The purpose of this course is to help students build a basic exegetic foundation through the study of graphic meaning, word meaning and cognate meaning.



The 540 radicals with their cognate words and phonological categories will be examined. Students are expected to learn basic skills of how to solve ancient textual problems by using paleographic, exegetic and phonologic techniques.  
*Prerequisite:* Chinese 107b or equivalent.

### ***Literary Chinese Courses***

#### **Chinese 106a. Introduction to Literary Chinese**

Catalog Number: 1185

Joanna C. Kuriyama

*Half course (fall term). Section I: Tu., Th., 10–11:30; Section II: Tu., Th., 11:30–1. EXAM GROUP: 12, 13*

Basic grammar and the reading of simple historical narrative.

*Prerequisite:* At least one year of modern Chinese, or familiarity with Chinese characters through knowledge of Japanese or Korean.

#### **Chinese 106b. Introduction to Literary Chinese**

Catalog Number: 3600

Joanna C. Kuriyama

*Half course (spring term). Tu., Th., 10–11:30; Tu., Th., 11:30–1. EXAM GROUP: 12, 13*

Introduction to pre-Qin philosophical texts.

*Prerequisite:* Chinese 106a or permission of instructor.

#### **Chinese 107a. Intermediate Literary Chinese**

Catalog Number: 3343

Xiaofei Tian

*Half course (fall term). Tu., Th., at 1, and an additional hour to be arranged. EXAM GROUP: 15*

A second-year course in literary Chinese, covering the genres and styles used in the imperial period. *guwen* prose.

*Prerequisite:* One year of literary Chinese.

#### **Chinese 107b. Intermediate Literary Chinese**

Catalog Number: 6931

Xiaofei Tian

*Half course (spring term). M., W., 11–12:30. EXAM GROUP: 4, 5*

Continuation of 107a; emphasis on poetry and lyric (*shi ci*), parallel prose (*pianpi wen*), and rhapsody (*fu*).

*Prerequisite:* Chinese 107a or equivalent.

### ***Primarily for Graduates***

#### **Chinese Linguistics 200. Introduction to Teaching of Modern Chinese Language**

Catalog Number: 5108

Shengli Feng

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Introduction to teaching Modern Standard Chinese as a second language at college level.



Reviews concepts and publications relating to trends in second language teaching, pedagogical issues and materials concerned with teaching MSC, observation of teaching.

## ***China: History Courses***

### ***For Undergraduates and Graduates***

#### **Chinese History 113. Social History of Late Imperial China**

Catalog Number: 8264

*Michael A. Szonyi*

*Half course (fall term). Tu., Th., at 12; Th., at 1. EXAM GROUP: 14*

This course is a survey of the social and cultural history of China from the Song to the mid-Qing (roughly from 1000 to 1800). The main topics discussed include urbanization and commerce; gender; family and kinship; education and the examination system, and religion and ritual. The main goal of the course will be to explore the relationship between social and cultural changes and political and intellectual developments

#### **Chinese History 118. History of Relations between China and Inner Asia**

Catalog Number: 6134

*Mark C. Elliott*

*Half course (fall term). W., F., 3–4:30. EXAM GROUP: 8, 9*

The interaction between sedentary and nomadic civilizations is one of the great themes of human history. This course focuses on the classic case of relations between China and Inner Asia from ancient times to the 20th century. Approaching the problem from historical and theoretical perspectives, the course addresses the political, economic, social, and cultural dimensions of the storied Great Wall frontier.

*Note:* Some knowledge of Chinese is recommended but not required. Open to undergraduates and graduates, with differing requirements.

#### **Chinese History 126. Cognition and Culture in Local China**

Catalog Number: 4939

*Peter K. Bol and Michael A. Szonyi*

*Half course (spring term). Tu., Th., at 10; Tu., at 11. EXAM GROUP: 12*

This course brings students into social and cultural life in China in present and past by an intensive examination of the patterns of everyday life in one well-defined area, the prefecture (now a municipality) of Jinhua, a group of between seven and eight counties, located in the middle of Zhejiang Province.

#### **[Chinese History 190. Women in Imperial China and Inner Asia]**

Catalog Number: 0465

*Mark C. Elliott*

*Half course (spring term). Hours to be arranged.*

A general introduction to women's history in China and Inner Asia from the tenth to the eighteenth centuries through readings in secondary scholarship and selected primary sources in translation. Special attention to problems of gender and ethnicity.

*Note:* Expected to be given in 2006–07. Open to undergraduates and graduates, with differing



requirements.

*Prerequisite:* Prior coursework in Chinese history.

***Cross-listed Courses***

[\*\*Anthropology 1210. The Archaeology of Early China\*\*](#)

[\*\*Anthropology 1880. Chinese Culture and Society\*\*](#)

[\*\*Foreign Cultures 48. The Cultural Revolution\*\*](#)

[\*\*Historical Study A-13. China: Traditions and Transformations\*\*](#)

[\*\*\[Historical Study A-53. The Chinese Revolutionary Tradition\]\*\*](#)

[\*\*History 1824. The Emergence of Modern China\*\*](#)

[\*\*\[History 1827. Nationalism and Ethnicity in China\]\*\*](#)

[\*\*\[History 1828. Christianity and Chinese Society: Conference Course\]\*\*](#)

***Primarily for Graduates***

[\*\*Chinese History 211. Research on Chinese History and Civilization: Tools and Methods\*\*](#)

Catalog Number: 4895

*Endymion P. Wilkinson*

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

Covers basic problems encountered in doing research on China in the humanities and social sciences; surveys main types of primary sources; analyzes canons and praxis; introduces the most efficient printed and electronic reference tools.

*Prerequisite:* A working knowledge of Chinese and Japanese is helpful.

[\*\*Chinese History 224. Introduction to T'ang and Sung Historical Sources\*\*](#)

Catalog Number: 0673

*Peter K. Bol*

*Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8*

Introduction to the reading and interpretation of sources useful in the study of T'ang and Sung history. Recent scholarship and methodological issues are also discussed.

*Prerequisite:* One year of literary Chinese or equivalent.

[\*\*\[Chinese History 225r. Topics in Song History: Seminar\]\*\*](#)

Catalog Number: 5075

*Peter K. Bol*

*Half course (spring term). Hours to be arranged.*

Examines various topics in the political, social, and intellectual history of Song China.

*Note:* Expected to be given in 2009–10.

*Prerequisite:* Knowledge of literary Chinese.

[\*\*\[Chinese History 228. Introduction to Neo-Confucianism\]\*\*](#)

Catalog Number: 2130

*Peter K. Bol*

*Half course (fall term). Hours to be arranged.*

Introduces major Neo-Confucian texts for close reading and analysis. Selections from the



writings and records of spoken instruction by Zhou Dunyi, Chang Zai, Cheng Yi, Cheng Hao, Zhu Xi, Liu Jiuyuan, and others.

*Note:* Expected to be given in 2008–09.

**[Chinese History 229. Topics in Ming Intellectual History]**

Catalog Number: 6649

*Peter K. Bol*

*Half course (spring term). Hours to be arranged.*

Examines various topics in the intellectual and cultural history of Ming China.

*Note:* Expected to be given in 2008–09.

*Prerequisite:* Knowledge of literary Chinese.

**[Chinese History 232r (formerly Chinese History 232). Topics in Han History]**

Catalog Number: 7542

*Michael J. Puett*

*Half course (spring term). Hours to be arranged.*

Examines various topics in the history of the Han Dynasty.

*Note:* Expected to be given in 2006–07.

**[Chinese History 233. Sources for Early Chinese History]**

Catalog Number: 9387

*Michael J. Puett*

*Half course (fall term). Hours to be arranged.*

Chronological survey of recently-discovered paleographic texts and received materials from the late Shang through the early Warring States period, with discussion of problems of contextualization.

*Note:* Expected to be given in 2006–07.

**Chinese History 235r (formerly Chinese History 235). Topics in Warring States History: Seminar**

Catalog Number: 1499

*Michael J. Puett*

*Half course (spring term). W., 2–5. EXAM GROUP: 7, 8, 9*

Close reading of texts from the Warring States period.

**Chinese History 251. Confucian Ethics: Conference Course**

Catalog Number: 2428

*Wei-Ming Tu*

*Half course (spring term). F., 10–1. EXAM GROUP: 3, 4, 5*

An exploration of salient features in the Confucian mode of moral reasoning.

*Note:* Offered jointly with the Divinity School as 3857.

**Chinese History 252. The Conquest Dynasties**

Catalog Number: 6854

*Mark C. Elliott and Leonard W. J. van der Kuijp*

*Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8*



Examines the history of northern "alien" regimes in comparative perspective. Attention is given to historiographical as well as theoretical issues of conquest, colonialism, law, identity, language, and gender. The focus this year is on the Yuan.

*Prerequisite:* Reading knowledge of modern Chinese and/or Japanese required. Reading knowledge of classical Chinese recommended, but not required.

### **Chinese History 255. Popular Religion in Late Imperial China: Historiography**

Catalog Number: 0337

*Michael A. Szonyi*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

In this seminar we will explore current writings on the relationship between Chinese popular religion and the Buddhist, Daoist, and Confucian traditions since the Song dynasty. We will discuss religion and ritual as important aspects of social experience, which interact with and shed light on other aspects of social relations. Some of the topics discussed will include: syncretism, state regulation and cultural integration; local cults and Daoism.

### **Chinese History 256. Popular Religion in Late Imperial China: Texts and Methods**

Catalog Number: 1081

*Michael A. Szonyi*

*Half course (spring term). Th., 1–4. EXAM GROUP: 15, 16, 17*

This seminar introduces the different types of primary materials useful for study of popular religion in late imperial China. Course meetings are spent translating and discussing these materials.

*Prerequisite:* Fluency in Classical Chinese is required.

### ***Cross-listed Courses***

**[Anthropology 2960r (formerly Anthropology 296r). Chinese Social Anthropology: Seminar]**

**[History 2847. 20th-Century China: Seminar]**

**History 2848a. Introduction to Archival Research in Chinese History: Seminar**

### ***China: Literature Courses***

#### ***For Undergraduates and Graduates***

### **Chinese Literature 124. Rethinking Ming-Qing Women's Literature**

Catalog Number: 8984

*Siao-chen Hu (Institute of Chinese Literature and Philosophy, Academia Sinica)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

This course is a survey of significant questions raised by scholars of Chinese women's literature in the last decade. We will also read Ming-Qing women's writing in different genres. In particular, students will be introduced to the prosimetric narrative by women authors, which is a less explored field.

*Prerequisite:* Basic reading comprehension of Chinese is recommended but not required.



**[Chinese Literature 125. Modern Chinese Literature in Translation]**

Catalog Number: 1162

*David Der-Wei Wang*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. Readings in English.

**Chinese Literature 128. Travel and Seclusion in Late Imperial Chinese Narrative**

Catalog Number: 5820

*Siao-chen Hu (Institute of Chinese Literature and Philosophy, Academia Sinica)*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

This course will examine the representation of travel in the sense of displacement, crossing and traversing. As the idea of travel implies boundary, we will also consider seclusion as its antithesis and a condition that stimulates mental journey. We will read a selection of readings from travel writings, short stories, novels, and dramas of the late imperial period.

*Note:* Required readings are in English.

**Chinese Literature 130. Screening Modern China: Chinese Film and Culture**

Catalog Number: 7241

*Eileen Cheng-yin Chow*

*Half course (fall term). Tu., Th., at 12 and weekly film screenings to be arranged. EXAM GROUP: 14*

How do Chinese films between the two fin-de-siècles create the spectacle of “China” at home and abroad? Course topics include: the cinematic histories of China, Taiwan, and Hong Kong; the origins of early Chinese cinema; film’s relationship to literary and pop culture discourses; aesthetic responses to historical crises; “spectacular” violence and the martial arts genre. Please see website for a more detailed course description.

*Note:* Lectures and readings in English, plus weekly film screenings. No prior background in subject matter required. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

**[Chinese Literature 132. Chinatowns]**

Catalog Number: 8316

*Eileen Cheng-yin Chow*

*Half course (fall term). Hours to be arranged.*

Explores ways that “Chinatown” has circulated as ‘memory, fantasy, narrative, myth’ in the dominant cultural imagination the last century and a half, and how realities of overseas communities, Asian American history, and conceptions of ‘Chineseness’ have engaged with real and phantom Chinatowns. Though emphasis is on cultural and theoretical issues rather than socio-historical study of the “Chinatown” phenomenon, participants are encouraged to pursue multi-disciplinary approaches, such as studies in urban history, economics, or creative projects.

*Note:* Expected to be given in 2006–07. Primarily for undergraduates; graduate students may enroll with permission of instructor.

**Chinese Literature 170. Forbidden Romance in Modern China**

Catalog Number: 5045

*David Der-Wei Wang*





*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

This course surveys China's search for affective modernity by examining how writers and literati engaged in unlikely romances and illicit loves in both fiction and life. It also looks into the moral and political consequences of these forbidden romances.

### ***Cross-listed Courses***

For related courses, see also *China: Language Courses* section.

[Foreign Cultures 68. Authority and the Claims of the Individual in Chinese Literary Culture](#)

[Linguistics 171. Structure of Chinese](#)

[Literature and Arts A-57. Bilingual Arts](#)

[Literature and Arts A-63. Women Writers in Imperial China: How to Escape from the Feminine Voice]

[Literature and Arts B-48. Chinese Imaginary Space]

[Literature and Arts C-40. The Chinese Literati](#)

### ***Primarily for Graduates***

[Chinese Literature 200. Pre-modern Chinese Literary Studies](#)

Catalog Number: 2533

*Xiaofei Tian*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

An introduction to the study of pre-modern Chinese literature, its history and customs, sources and resources, and issues in research.

*Note:* Primarily for first- and second-year graduate students in Chinese literature.

**[Chinese Literature 201a. History of Chinese Literature: Beginnings through Song]**

Catalog Number: 0165

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*Half course (fall term). Hours to be arranged.*

Basic scholarly introduction to major writers, works, and literary forms through the 13th century. Also includes bibliographical background and readings in primary texts.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* One year of literary Chinese.

**[Chinese Literature 201b. History of Chinese Literature: 900-1900 ]**

Catalog Number: 1760

*Wilt Lukas Idema*

*Half course (spring term). Hours to be arranged.*

Continuation of Chinese Literature 201a. Provides an in-depth overview of the development of Chinese literature during the late imperial period, with special (but not exclusive) emphasis on the development of vernacular literature.

*Note:* Expected to be given in 2006–07.



**Chinese Literature 215r (formerly Chinese 215r). Cultural and Literary Discourse in Premodern China**

Catalog Number: 8043

*Xiaofei Tian*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

We will read and discuss a series of literary, religious, and historical texts from the Six Dynasties period.

**Chinese Literature 224r. Topics in Modern Chinese Literature**

Catalog Number: 4997

*Eileen Cheng-yin Chow*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

The focus of this year's seminar will be film studies.

*Prerequisite:* Advanced command of modern Chinese.

**[Chinese Literature 225. Visual Evidence]**

Catalog Number: 7222

*Eileen Cheng-yin Chow*

*Half course (fall term). Hours to be arranged.*

Through texts and investigations into visual practices, explores interactions of social context, technology, and culture in Qing and Republican China, and the role material media plays in changing epistemological formations, and in defining the “modern”.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Advanced command of modern Chinese; ability to read classical Chinese.

**Chinese Literature 226. *Honglou meng* (Dream of the Red Chamber): Seminar**

Catalog Number: 0229

*Wai-yee Li*

*Half course (fall term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

A close reading of the masterpiece of Chinese fiction, *Honglou meng*, drawing on commentary traditions and modern interpretations. We will explore how *Honglou meng* sums up and rethinks various aspects of the Chinese tradition.

**Chinese Literature 227r (formerly Chinese Literature 227). Early Chinese Historiography: Records of the Historian**

Catalog Number: 3773

*Wai-yee Li*

*Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8*

Studies the *Shiji* and ponders early Chinese conceptions of history by examining its rhetorical, narrative, and interpretive modes. We will examine how evolving and overlapping stories represent the claims and limits of historical knowledge.

*Prerequisite:* Reading knowledge of classical Chinese.

**[Chinese Literature 228. Asian Modernities: An Introduction to Critical and Cultural Theories]**

Catalog Number: 7357



*Eileen Cheng-yin Chow*

*Half course (fall term). Hours to be arranged.*

We look at the place of theory and criticism in the study of 'Asia' in the academy today. We engage in topics such as the construction of 'literature', literary traditions, and national cultures in a comparative context; articulations of internationalism and cosmopolitanism as counter-discourses; recent debates on nationalism and modernity, cultural studies, gender studies, translation and travel, and the proliferation of 'post-' studies (postmodern, post-colonial, post-ethnic) as they pertain to our research and writing.

*Note:* Expected to be given in 2006–07. Graduate seminar; qualified undergraduates require permission of instructor. Knowledge of one Asian literary or cultural tradition helpful.

**[Chinese Literature 231. Late-Ming Literature and Culture]**

Catalog Number: 2770

*Wai-ye Li*

*Half course (fall term). Hours to be arranged.*

Surveys writings from second half of sixteenth century until fall of Ming, including prose (including "informal essays"), poetry, drama, fiction. Examines late-Ming literary-aesthetic sensibility (and questions how such a category may be justified.)

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of classical and pre-modern vernacular Chinese required.

**[Chinese Literature 232. Early Qing literature and Culture]**

Catalog Number: 8447

*Wai-ye Li*

*Half course (spring term). Hours to be arranged.*

Examines works in Qing prose, poetry, fiction, and drama. Focuses on memory and representation of the fall of the Ming in early Qing. Explores how this preoccupation merges and co-exists with developments in this period.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of classical and pre-modern vernacular Chinese required.

**[Chinese Literature 239. Women in Late-Imperial Chinese Literature]**

Catalog Number: 7569

*Wai-ye Li*

*Half course (spring term). Hours to be arranged.*

Introduces students to women writers in the Ming and Qing dynasties. Also examines modes of representing female talent, virtues and vices, as well as gender roles and boundaries in various genres.

*Note:* Expected to be given in 2006–07.

**[Chinese Literature 242. From History into Fiction]**

Catalog Number: 2949

*David Der-Wei Wang*

*Half course (fall term). Hours to be arranged.*

This seminar deals with the dialogics between historical dynamics and literary manifestation at select moments of twentieth century China. It focuses on two themes: history and representation;



modernity and monstrosity.

*Note:* Expected to be given in 2006–07.

**Chinese Literature 243r. Seminar: Chinese Literature and Culture - Chinese Literature in the Late Qing and Post-modern Eras**

Catalog Number: 2790

*David Der-Wei Wang*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

This course studies Chinese literature at the turns of the twentieth and twenty-first centuries. It highlights fin-de-siècle cultural and conceptual dynamics and it uses a multiple approach to Chinese literary modernities.

*Note:* Advanced reading knowledge of Chinese is required.

**Chinese Literature 245. Seminar: Sinophone Literature**

Catalog Number: 0321

*David Der-Wei Wang*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

This course surveys Chinese literature in Taiwan, Hong Kong, Southeast Asia, America, Europe, and on the mainland. It traces the history of sinophone literature throughout the modern age, identifies relevant topics, and proposes study tactics.

**[Chinese Literature 266r. Topics in Ancient Literature]**

Catalog Number: 6253

*Stephen Owen*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Two years of literary Chinese, or the equivalent.

**[Chinese Literature 267r. Topics in Tang Literature]**

Catalog Number: 8521

*Stephen Owen*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

**Chinese Literature 268r. Topics in Song and Yuan Literature**

Catalog Number: 7143

*Stephen Owen*

*Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8*

Song lyric (*ci*) of the 10th and 13th century.

***Graduate Courses of Reading and Research***

**\*Chinese 300. Reading and Research**

Catalog Number: 4849

*Peter K. Bol 8014, Eileen Cheng-yin Chow 2308, Mark C. Elliott 3329, Robert M. Gimello (University of Arizona) 9240, Patrick D. Hanan 1413, Siao-chen Hu (Institute of Chinese*



*Literature and Philosophy, Academia Sinica) 5359, Wilt Lukas Idema 2511 (on leave 2005-06), Philip A. Kuhn 8051 (on leave fall term), Wai-yee Li 3357, Stephen Owen 7418, Michael J. Puett 1227, Michael A. Szonyi 4842, Xiaofei Tian 3746, Wei-Ming Tu 7233, David Der-Wei Wang 5190, and Endymion P. Wilkinson 4049*

## ***Japan: Language Courses***

### ***For Undergraduates and Graduates***

#### **Japanese Ba. Elementary Japanese**

Catalog Number: 2014

*Itsuko Nakamura*

*Half course (fall term). Sections M., W., F., at 9, 1, or 2, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2, 3, 6*

This course aims to develop a basic foundation in modern Japanese leading to proficiency in the four language skills of speaking, listening, reading and writing. Emphasis is placed on the use of these skills to communicate effectively in authentic contexts of daily life. Mastery of hiragana, katakana, and 29 Kanji (Chinese characters.)

#### **Japanese Bb. Elementary Japanese**

Catalog Number: 8728

*Itsuko Nakamura*

*Half course (spring term). Sections M., W., F., at 9, 10, or 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2*

Continuation of Japanese Ba, with an additional 151 Kanji.

*Prerequisite:* Japanese Ba or equivalent.

#### **Japanese 106a. Classical Japanese**

Catalog Number: 1492

*Esperanza Ramirez-Christensen (University of Michigan)*

*Half course (fall term). Tu., Th., at 10; F., at 11. EXAM GROUP: 12*

Introduction to classical grammar and texts.

*Prerequisite:* Japanese 130b.

#### **[Japanese 106b. Kambun]**

Catalog Number: 2602

*Edwin A. Cranston*

*Half course (spring term). Hours to be arranged.*

Introduction to *Kambun*.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Japanese 106a or equivalent.

#### **[Japanese 106c. Later Classical Japanese]**

Catalog Number: 7307

*Edwin A. Cranston*

*Half course (spring term). Hours to be arranged.*



Post-Heian writings in Classical Japanese.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Japanese 106a or equivalent.

### **Japanese 109. Translating Modern Fiction**

Catalog Number: 0323

*Jay Rubin*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Practice translating a variety of prose styles in Meiji and later fiction.

*Note:* Conducted in English.

*Prerequisite:* Japanese 130b or equivalent.

### **Japanese 120a (formerly Japanese 101a). Intermediate Japanese I**

Catalog Number: 8152

*Satomi Matsumura*

*Half course (fall term). Sections M., W., F., at 9, 10, or 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2, 3*

Second-year intermediate level course aimed at consolidation of the basic grammatical patterns of Japanese and development of reading, writing, speaking, and listening skills to the level necessary for communication in everyday life in Japanese society. Introduction of approximately 300 Chinese characters beyond those introduced in Bb.

*Prerequisite:* Japanese Bb or equivalent.

### **Japanese 120b (formerly Japanese 101b). Intermediate Japanese I**

Catalog Number: 6433

*Satomi Matsumura*

*Half course (spring term). Sections M., W., F., at 9, 10, or 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2, 3*

Continuation of Japanese 101a. Approximately 300 additional Chinese characters.

### **Japanese 130a (formerly Japanese 103a). Intermediate Japanese II**

Catalog Number: 4855

*Yuko Kageyama-Hunt*

*Half course (fall term). M. through F., at 9 or 1. EXAM GROUP: 2, 6, 11*

Third-year intermediate advanced course. Development of skills in reading authentic materials from contemporary Japanese media and fiction and in aural comprehension of contemporary television news and drama with decreased reliance on pedagogical aids. Development of speaking and writing skills to an increasingly sophisticated level. Introduction of approximately 350 additional Chinese characters beyond those introduced in 120b.

*Prerequisite:* Japanese 120b or equivalent.

### **Japanese 130b (formerly Japanese 103b). Intermediate Japanese II**

Catalog Number: 6904

*Yuko Kageyama-Hunt*

*Half course (spring term). M. through F., at 9 or 1. EXAM GROUP: 2*

Continuation of Japanese 130a. Approximately 350 additional Chinese characters.



**Japanese 140a (formerly Japanese 104a). Advanced Modern Japanese**

Catalog Number: 3688

*Emi Yamanaka*

*Half course (fall term). Sections: M. through Th., at 9 or 10. EXAM GROUP: 2, 11*

Readings of modern texts in both rapid and in-depth modes. Comprehension of media news and drama. Advanced conversation and composition on topics related to the preceding.

*Prerequisite:* Japanese 130b.

**Japanese 140b (formerly Japanese 104b). Advanced Modern Japanese**

Catalog Number: 8551

*Emi Yamanaka*

*Half course (spring term). Sections: M. through Th., at 9 or 10. EXAM GROUP: 2*

Continuation of Japanese 140a.

**Japanese 150a (formerly Japanese 110a). Readings and Discussion in Japanese Social Sciences**

Catalog Number: 4693

*Emi Yamanaka*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Selected readings and discussions in contemporary Japanese on topics in social studies, culture, education, politics, business, economy, psychology, and anthropology, supplemented by selections from audiovisual materials on current social issues.

*Note:* Conducted in Japanese.

*Prerequisite:* Japanese 140b.

**Japanese 150b (formerly Japanese 110b). Readings and Discussion in Japanese Social Sciences**

Catalog Number: 0984

*Emi Yamanaka*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Continuation of Japanese 150a.

*Prerequisite:* Japanese 150a.

***Cross-listed Courses***

**Linguistics 173. Linguistic Issues in the Teaching of Japanese**

**[Linguistics 174. Tense and Aspect in Japanese]**

**[Linguistics 176. History of the Japanese Language]**

***Primarily for Graduates***

**Japanese 207. Japanese Historical Writing**

Catalog Number: 9716

*Harold Bolitho*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

An introduction to historical source materials from the Tokugawa period (1600-1868).





**Japanese 210a (formerly Japanese 209a). Reading Scholarly Japanese for Students of Chinese and Korean**

Catalog Number: 9182

Wesley M. Jacobsen

*Half course (fall term). M., W., F., at 9, and an additional 90 minutes weekly to be arranged.*

**EXAM GROUP: 2**

Development of skills in reading and translating academic genres of Japanese, with special attention to Japanese scholarship on Chinese and Korean studies. Introduction to old kana usage and classical forms commonly used in scholarly writing.

*Prerequisite:* Japanese 120b, and graduate standing in some field of Chinese or Korean studies.

**Japanese 210b (formerly Japanese 209b). Reading Scholarly Japanese for Students of Chinese and Korean**

Catalog Number: 8918

Wesley M. Jacobsen

*Half course (spring term). M., W., F., at 9 and an additional 90 minutes to be arranged. EXAM GROUP: 2*

Continuation of Japanese 210a.

*Prerequisite:* Japanese 210a.

***Japan: History Courses***

***For Undergraduates and Graduates***

**Japanese History 111b. The Shogun's Realm, 1600-1868**

Catalog Number: 1244

Harold Bolitho

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Reading and discussion of writings on political institutions, land systems and agriculture, commerce, population, and intellectual developments from the late 16th to the mid-19th century.

**Japanese History 115. Religion and Society in Edo and Meiji Japan**

Catalog Number: 5756

Helen Hardacre

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Examination of religion and society in Japan from 1600-1912, beginning with an era of state control over religious institutions and religious affiliations of the populace, followed by the demise of the Edo-period system and diversification of religious practice in context of rapid social change, modernization, and imperialism during the Meiji period. Separate section for students able to utilize primary sources in Japanese will explore the Maruzen Meiji Microfilm collection in the Harvard-Yenching Library.

*Prerequisite:* General knowledge of Japanese history and religion is helpful.

**Japanese History 120. Religion and Society in Twentieth-Century Japan**

Catalog Number: 4903

Helen Hardacre



*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

An examination of religion and society from the end of the Meiji period (1912) to the present. This course explores the meaning of the modern in Japanese religions, the development of the public sphere and religion's relations with it, religion and nationalism, and the interconnections of religion and social change with materialism, consumerism, pacifism, and spiritualism.

*Prerequisite:* General knowledge of Japanese history and religion is helpful. Enrollment in Japanese History 115 recommended but not required.

### **Japanese History 125. Japanese Religious Traditions**

Catalog Number: 0725

*Ryuichi Abe*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

An introductory course designed for students to understand some central values in Japanese religious culture. It first observes popular religious ceremonies, festivals, and rituals and studies their historical transformation; then investigates the interaction between Buddhism and native Japanese religion; and finally studies the permeating influence of religion on traditional Japanese art and literature. The concluding section considers wide-ranging contemporary and traditional religious issues in Japanese popular culture.

### **Japanese History 126. Shinto: Conference Course**

Catalog Number: 3097

*Helen Hardacre*

*Half course (spring term). Tu., 2–4 with occasional required film screenings. EXAM GROUP: 16, 17*

An examination of Shinto, emphasizing its concepts of deity (*kami*), patterns of ritual and festival, shrines as religious and social institutions, political culture and interactions with party politics, and its contribution to contemporary youth culture.

*Note:* General knowledge of Japanese history and religion is helpful. Japanese language is not required, but several meetings will be held for students able to use Japanese-language sources.

### **Japanese History 130. Edo Japan in the History of Curiosity**

Catalog Number: 4445

*Shigehisa Kuriyama*

*Half course (spring term). M., W., at 10, and a biweekly meeting F., at 10. EXAM GROUP: 3*

Edo culture considered through the prism of the comparative history of curiosity. Topics include the vogue of natural history, collections of curiosities, erotic art, travel and tourism, monsters and ghosts, optical devices, anatomy.

### ***Cross-listed Courses***

**Foreign Cultures 84. Tokyo**

**Historical Study A-14. Japan: Tradition and Transformation**

**Historical Study B-67. Japan's Modern Revolution**

**History 1851. 20th-Century Japan**

**[History 1854. Gender and Japanese History: Conference Course]**

**History of Art and Architecture 18k. Introduction to Japanese Art**



**\*History of Art and Architecture 182k. Japanese Woodblock Prints**  
**History of Art and Architecture 188v. Dynamics of Japanese Architecture**  
**\*History of Art and Architecture 280v. Monumentality and Modernism in Japanese Architecture**

***Primarily for Graduates***

**Japanese History 211. Introduction to Ancient and Medieval Japanese Historical Sources**

Catalog Number: 8174

*Mikael Adolphson*

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

An introduction to the reading and usage of original sources of ancient and medieval Japan with particular emphasis on Heian and Kamakura documents and diaries.

*Prerequisite:* Knowledge of classical Japanese and *Kambun*.

**Japanese History 212. Interpreting Edo Biographies**

Catalog Number: 9718

*Harold Bolitho*

*Half course (spring term). M., 9–11. EXAM GROUP: 2, 3*

A seminar based on the study of selected Japanese language works which address the lives and social interactions of individuals, warriors, and others of the Tokugawa period.

**Japanese History 224. Teaching Japanese Religions: Pedagogical Issues and Course Design**

Catalog Number: 6117

*Helen Hardacre*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

This course offers practical experience in the design and implementation of courses in Japanese religions. Students will compile syllabi, plan discussion sessions, compose examination exercises, and consider relevant multi-media material, as well as conducting practice lectures and classes.

*Note:* Offered jointly with the Divinity School as 3803.

**[Japanese History 255. Topics in the Study of Shinto]**

Catalog Number: 9448

*Helen Hardacre*

*Half course (fall term). Hours to be arranged.*

Examination of various themes and issues in the history of Shinto. The subject this year will be the Shinto festival (*matsuri*).

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of modern Japanese.

**Japanese History 260r. Topics in Japanese Cultural History**

Catalog Number: 4539

*Shigehisa Kuriyama*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Topic for 2005-06: Conceptions of self, body, and vitality in the Edo era, with special attention



to the discourse and practices of *yojo* (cultivation of life).

*Prerequisite:* Reading knowledge of Japanese; knowledge of classical Chinese or *Kambun* also desirable.

### ***Cross-listed Courses***

**[\\*History 2851. Japanese History: Seminar](#)**

**[History 2854. Issues in Tokugawa and Meiji History: Seminar](#)**

### ***Japan: Literature Courses***

#### ***For Undergraduates and Graduates***

**[\\*Japanese Literature 112. Japan Pop! From Bashô to Banana](#)**

Catalog Number: 8610 Enrollment: Limited to 25.

*Adam L. Kern*

*Half course (spring term). M., W., F., at 1 and four additional sessions to be arranged for video screenings. EXAM GROUP: 6*

Surveys what is arguably the major alternative to American popular culture, from its relative isolation in the 17th-century to its massive globalization of the present day. Drawing upon literary studies, cultural studies, and visual culture, students will engage in the close readings of texts in English translation in different genres and media: *anime*, comic poetry, contemporary performance art, film, *haiku*, J-pop, Japanese hip-hop, *kabuki*, *kibyôshi*, *manga*, novellas, novels, and puppet plays.

*Note:* No knowledge of Japanese is required. May not be taken for credit if Freshman Seminar 330 has already been taken.

**[Japanese Literature 121a. History of Japanese Literature](#)**

Catalog Number: 5891

*Adam L. Kern*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

A broad overview of some of the most consequential, absorbing, and exquisitely wrought works of Japanese literature of the classical, medieval, and early modern periods (up to 1868), available in English translation.

**[\[Japanese Literature 123. Manga\]](#)**

Catalog Number: 7021

*Adam L. Kern*

*Half course (spring term). Hours to be arranged.*

Surveys the *manga*—the Japanese comicbook, comic strip, and graphic novel—from its precursors in classic picture scrolls, pasquinades, and woodblock-printed art and literature; through its progenitors in Meiji newspapers and magazines; to its modern and contemporary manifestations in subgenres like *mecha* and *shôjo*. Draws upon critical writings on popular culture, visual culture, cultural studies, literary history, cartoon art, and the poetics of visual-verbal narrative.



*Note:* Expected to be given in 2006–07. Japanese *not* required. Special sectioning for students with 3 or more years of modern Japanese to be arranged.

**[Japanese Literature 141. Edo's Spectacular Culture]**

Catalog Number: 9347

*Adam L. Kern*

*Half course (spring term). Hours to be arranged.*

Explores the visual culture of Edo (the major urban center of early modern Japan) as seen through its literature, theatre, and woodblock prints. Japanese not required.

*Note:* Expected to be given in 2007–08.

**Japanese Literature 150. Love and Death in Japanese Culture**

Catalog Number: 4612

*Esperanza Ramirez-Christensen (University of Michigan)*

*Half course (spring term). Tu., Th., 1–2:30; and an optional section on F., 1–2:30 for readers of classical Japanese. EXAM GROUP: 15, 16*

In the course of reading texts dealing with the central existential questions of love and death, we will analyze key terms and concepts in Japanese cultural history that address issues of good and evil, truth, and "the beautiful." Aside from major literary works like *The Tale of Genji* and *Hagakure: The Book of the Samurai*, class materials will include secondary sources from criticism, history, and religion, as well as visual media like painting and film.

***Cross-listed Courses***

**Literature and Arts C-42. Constructing the Samurai**

***Primarily for Graduates***

**[Japanese Literature 222a. Survey of Japanese Poetry]**

Catalog Number: 4226

*Edwin A. Cranston*

*Half course (fall term). Hours to be arranged.*

The tradition of *waka* poetry from its origins to the 15th century.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Japanese 106a or equivalent.

**[Japanese Literature 222b. Survey of Japanese Poetry]**

Catalog Number: 2311

*Edwin A. Cranston*

*Half course (fall term). Hours to be arranged.*

The development of *renga*, *haikai*, and *haiku* to the 18th century.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Japanese 106a or equivalent.

**[Japanese Literature 233r. Nara and Heian Court Literature]**

Catalog Number: 8614



*Edwin A. Cranston*

*Half course (spring term). Hours to be arranged.*

*Topic: Man'yōshū*

*Note: Expected to be given in 2006–07.*

*Prerequisite: Japanese 106a or equivalent.*

### **Japanese Literature 235. No and Kyogen**

Catalog Number: 0869

*Jay Rubin*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

*Close reading of No and Kyogen texts.*

### **Japanese Literature 241. Comic Imagination in Japanese Literature**

Catalog Number: 2732

*Adam L. Kern*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

An exploration of the indefatigable Japanese comic imagination in its multifarious manifestations (humor, wit, satire, irony, parody, burlesque, literary Nonsense, anecdotes, jokes and so on) in a variety of genres from the classical to early modern periods.

*Prerequisite: Japanese 106a and 106b, or the instructor's permission.*

### **Japanese Literature 243r. Major Writers: Santo Kyoden**

Catalog Number: 5558

*Adam L. Kern*

*Half course (fall term). Th., 3:30–5:30. EXAM GROUP: 17, 18*

Close readings of the works of Santo Kyoden (1761-1816), to be selected from his humorous writings (*kibyōshi* and *sharebon*), popular fiction (*gokan* and *yomihon*), serious treatises (*zuihitsu*), and antiquarian writings (e.g. *Kottoshu*).

*Prerequisite: Japanese 106a or equivalent.*

## ***Graduate Courses of Reading and Research***

### ***\*Japanese 300. Reading and Research***

Catalog Number: 4627

*Ryuichi Abe 4974, Mikael Adolphson 1878, Harold Bolitho 1176, Edwin A. Cranston 1186 (on leave 2005-06), Andrew Gordon 1891, Helen Hardacre 3191, Wesley M. Jacobsen 3443, Adam L. Kern 4195, Shigehisa Kuriyama 5269, Satomi Matsumura 2665, Melissa M. McCormick 5331 (on leave 2005-06), Esperanza Ramirez-Christensen (University of Michigan) 5394, and Jay Rubin 3544 (on leave spring term)*

## ***Korea: Language Courses***

### ***For Undergraduates and Graduates***

### **Korean Ba. Elementary Korean**

Catalog Number: 8739



Mi-Hyun Kim

*Half course (fall term). M., W., F., at 10, and two additional hours to be arranged. EXAM*

*GROUP: 3*

*Introduction to modern Korean: basic grammar, reading of simple texts, conversational skills, and writing short letters. After successful completion of this course, students are expected to be able to handle a limited number of interactive, task-oriented, and social situations and to have sufficient control of the writing system to interpret written language in areas of practical needs.*

**Korean Bb. Elementary Korean**

Catalog Number: 8718

Mi-Hyun Kim

*Half course (spring term). M., W., F., at 10, and two additional hours to be arranged. EXAM*

*GROUP: 3*

*Continuation of Korean Ba.*

*Prerequisite: Korean Ba or equivalent.*

**Korean 120a (formerly Korean 102a). Intermediate Korean**

Catalog Number: 5884

Sang-suk Oh

*Half course (fall term). M., W., F., at 11 and two additional hours to be arranged. EXAM*

*GROUP: 4*

*Continuation of elementary Korean to consolidate students' knowledge of the fundamental grammatical structures of Korean with an aim to increase their abilities to communicate using Korean in a wide range of daily-life transactional situations. After successful completion of second-year Korean, students are expected to handle most uncomplicated communicative tasks and social situations and read consistently with understanding of simple connected texts dealing with personal and social needs.*

*Prerequisite: Korean Bb or equivalent.*

**Korean 120b (formerly Korean 102b). Intermediate Korean**

Catalog Number: 8590

Sang-suk Oh

*Half course (spring term). M., W., F., at 11 and two additional hours to be arranged. EXAM*

*GROUP: 4*

*Continuation of Korean 120a.*

*Prerequisite: Korean 120a or equivalent.*

**Korean 130a (formerly Korean 103a). Pre-advanced Korean**

Catalog Number: 2071

Mi-Hyun Kim

*Half course (fall term). M., W., F., at 2; and two additional hours to be arranged. EXAM*

*GROUP: 16, 17, 18*

*Continuation of intermediate Korean, to consolidate the student's knowledge of the grammatical structures of Korean with an aim to increase their abilities to communicate using Korean in a wide range of familiar and everyday topics, current societal events, and factual and concrete topics relating to personal interests. After successful completion of third-year Korean, students*





*are expected to be able to describe and narrate about concrete and factual topics of personal and general interest.*

*Prerequisite: Korean 120b or equivalent.*

**Korean 130b (formerly Korean 103b). Pre-advanced Korean**

Catalog Number: 2662

Mi-Hyun Kim

Half course (spring term). Tu., 2:30–4:30, with speaking section Th., 2:30–4:30. EXAM

GROUP: 16, 17, 18

Continuation of Korean 130a.

*Prerequisite: Korean 130a or equivalent.*

**Korean 140a (formerly Korean 104a). Advanced Korean**

Catalog Number: 5723

Sang-suk Oh

Half course (fall term). W., 2–4:30, F., 2–3:30 and two additional hours to be arranged. EXAM

GROUP: 7, 8, 9

*Development of skills in reading materials from contemporary Korean media and fiction and in aural comprehension of contemporary television news and drama with decreased reliance on pedagogical aids. After successful completion of fourth-year Korean, students should be able to satisfy the requirements of various everyday, school and work situations and follow essential points of written discourse which are abstract and linguistically complex, and also to write about a variety of topics in detail with precision.*

*Prerequisite: Korean 130b or equivalent.*

**Korean 140b (formerly Korean 104b). Advanced Korean**

Catalog Number: 3011

Sang-suk Oh

Half course (spring term). F., 12–3 with speaking section M., at 5. EXAM GROUP: 5, 6, 7

Continuation of Korean 140a.

*Prerequisite: Korean 140a or equivalent.*

**Korean 150a (formerly Korean 110a). Readings in Cultural Studies**

Catalog Number: 1936

Sang-suk Oh

Half course (fall term). W., 4–7 p.m. EXAM GROUP: 9

*Selected readings in contemporary Korean on topics in art, film, drama, and cultural studies, supplemented by selections from audio-visual media on traditional and current cultural events. After completion of Korean 150a and 150b, students are expected to be able to participate in most formal and informal conversations on practical, social, professional, and abstract topics and read with almost complete comprehension and at normal speed expository prose on unfamiliar subjects and a variety of literary texts.*

*Prerequisite: Korean 140b or equivalent.*

**Korean 150b (formerly Korean 110b). Readings in Cultural Studies**

Catalog Number: 1282



Sang-suk Oh

Half course (spring term). W., 4–7 pm. EXAM GROUP: 9

Continuation of Korean 150a.

Prerequisite: Korean 140b or equivalent.

## **Korea: History Courses**

### **For Undergraduates and Graduates**

#### **Korean History 111. Traditional Korea**

Catalog Number: 3709

Sun Joo Kim

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Survey of the history of Korea, from earliest times to the 19th century. Examines various interpretive approaches and issues in the political, social, economic, intellectual, cultural, and diplomatic history of premodern Korea.

#### **[Korean History 118. History of the Choson Dynasty: Conference Course]**

Catalog Number: 3231

Sun Joo Kim

Half course (spring term). Hours to be arranged.

Reading and discussion of Chosôn society and culture. Investigates major dynastic institutions and their transformations that provided structural underpinnings of Chosôn society and explores how people's lives were affected by and connected to the dynastic systems and ideals.

Note: Expected to be given in 2006–07.

### **Cross-listed Courses**

#### **Historical Study A-75. The Two Koreas**

### **Primarily for Graduates**

#### **Korean History 230r. Readings in Premodern Korean History**

Catalog Number: 4497

Sun Joo Kim

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

A study of social, political, economic, and intellectual history of premodern Korea reviewing major scholarship in the field. Designed primarily for graduate students preparing for the general examination. All readings are in English.

Prerequisite: Korean History 111 or equivalent.

#### **[Korean History 235r. Historical Research in Korea ]**

Catalog Number: 7886

Sun Joo Kim

Half course (fall term). Hours to be arranged.

Explores current historical research in the field of premodern Korea by reviewing major



*publications in the field in Korean.*

*Note: Expected to be given in 2006–07.*

*Prerequisite: Korean History 111 or equivalent and proficiency in Korean.*

**Korean History 240r. Selected Topics in Premodern Korean History: Seminar**

Catalog Number: 9837

Sun Joo Kim

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

*Reading and research of selected primary sources and secondary works on premodern Korean history.*

*Prerequisite: Korean History 111 or equivalent and reading proficiency in Korean. Reading ability in classical Chinese and Japanese helpful.*

**Korean History 253r. Modern Korean History: Proseminar**

Catalog Number: 0365

Carter J. Eckert

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

*An introduction to some of the current issues in modern Korean history through selected readings. Designed primarily for entering graduate students.*

**\*Korean History 255r. Modern Korean History: Seminar**

Catalog Number: 0713

Carter J. Eckert

*Full course (indivisible). Th., 2–4. EXAM GROUP: 16, 17*

*Reading and research in modern Korean history. Students are required to write a project paper based largely on primary materials.*

*Prerequisite: Korean History 253r or equivalent, and reading proficiency in Korean.*

**[Korean History 260r. Readings in Modern Korean History]**

Catalog Number: 5372

Carter J. Eckert

*Half course (fall term). Hours to be arranged.*

*Explores the history of the field through an examination of major scholarship. Designed primarily for graduate students preparing for the general examination.*

*Note: Expected to be given in 2006–07.*

**Korea: Literature Courses**

**For Undergraduates and Graduates**

**[Korean Literature 132. Korean Literature in Translation]**

Catalog Number: 7838

David McCann

*Half course (spring term). Hours to be arranged.*

*A survey of modern and pre-modern Korean literature in translation. Major genres, authors, works, periods; historical development of the field, including sequences of interpretive models*



*and positions, Korean and foreign.  
Note: Expected to be given in 2006–07.*

**Primarily for Graduates**

**Korean Literature 210r. Pre-Modern Korean Literature**

Catalog Number: 6342

David McCann

Half course (spring term). Hours to be arranged.

Close reading in a number of literary forms, including the essay, histories, prose fiction, songs, poetry, and p'ansori.

Note: Readings in English and Korean.

Prerequisite: Korean Literature 132 or equivalent.

**Korean Literature 212. Modern Korean Poetry**

Catalog Number: 5627

David McCann

Half course (fall term). W., 9–11. EXAM GROUP: 2, 3

Major and minor voices in 20th and 21st-century Korean poetry. Attention to the practices of reading and translation, and to the political contexts of modern Korean poetry.

Note: Readings in English and Korean.

Prerequisite: Korean Literature 132 or equivalent.

**Cross-listed Courses**

**Visual and Environmental Studies 188k. Korean Cinema**

**Graduate Courses of Reading and Research**

**\*Korean 300. Reading and Research**

Catalog Number: 8122

Carter J. Eckert 1178, Sun Joo Kim 3821, David McCann 3635, and Sang-suk Oh 3856

**Manchu: Language Courses**

**For Undergraduates and Graduates**

**[Manchu A. Elementary Manchu]**

Catalog Number: 8961

Mark C. Elliott

Half course (fall term). Hours to be arranged.

Introduction to Manchu grammar with elementary readings in Manchu script.

Note: Expected to be given in 2006–07.

**[Manchu B. Elementary Manchu]**

Catalog Number: 1625



Mark C. Elliott

*Half course (spring term). Hours to be arranged.*

*Readings in a variety of historical and literary texts with emphasis on Manchu documentary sources, with and without diacritical marks.*

*Note: Expected to be given in 2006–07.*

**Manchu 120a (formerly Manchu C). Intermediate Manchu**

Catalog Number: 4190

Mark C. Elliott

*Half course (fall term). M., 3:30–6:30. EXAM GROUP: 8, 9*

*Readings in a wide variety of Manchu texts. English to Manchu translation exercises.*

**Manchu 120b (formerly Manchu D). Advanced Manchu**

Catalog Number: 1414

Mark C. Elliott

*Half course (spring term). M., 1:30–4:30. EXAM GROUP: 6, 7, 8, 9*

*Intensive reading in Manchu archival materials, other historical texts and literary texts. Some texts in pre-diacritical form. English to Manchu translation exercises.*

***Primarily for Graduates***

***[Manchu 210a. Introduction to Sources for Manchu Studies]***

Catalog Number: 5638

Mark C. Elliott

*Half course (fall term). Hours to be arranged.*

*Introduces a range of Manchu and Chinese texts used for research in Manchu studies. After reviewing the history and present state of Manjuristics, we will consider different source materials each week. Students will present oral reports and write a bibliographic essay on a topic of potential research interest.*

*Note: Expected to be given in 2007–08.*

*Prerequisite: Ability in literary Chinese and Manchu, background in Qing history. Reading ability in Japanese strongly preferred but not required.*

***[Manchu 210b. Introduction to Sources for Manchu Studies]***

Catalog Number: 4146

Mark C. Elliott

*Half course (spring term). Hours to be arranged.*

*Research papers prepared on the basis of primary sources.*

*Note: Expected to be given in 2007–08.*

*Prerequisite: Manchu 210a.*

***Graduate Courses of Reading and Research***

***\*Manchu 300. Reading and Research***

Catalog Number: 8735

Mark C. Elliott 3329



## **Mongolian: Language Courses**

### **For Undergraduates and Graduates**

#### **Mongolian A. Elementary Written Mongolian**

Catalog Number: 2965

Mark C. Elliott

Half course (fall term). Hours to be arranged.

Study of classical Mongolian grammar, with introduction to pre-classical and classical Mongolian texts.

#### **Mongolian B. Elementary Written Mongolian**

Catalog Number: 8489

Mark C. Elliott

Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11

Continuation of Mongolian A.

#### **[Mongolian 120a (formerly Mongolian C). Intermediate Written Mongolian]**

Catalog Number: 0810

Mark C. Elliott

Half course (fall term). Hours to be arranged.

Readings in classical and modern Mongolian texts.

Note: Expected to be given in 2006–07.

#### **[Mongolian 120b (formerly Mongolian D). Advanced Written Mongolian]**

Catalog Number: 4032

Mark C. Elliott

Half course (spring term). Hours to be arranged.

Continuation of Mongolian 120a.

Note: Expected to be given in 2006–07.

### **Graduate Courses of Reading and Research**

#### **\*Mongolian 300. Reading and Research**

Catalog Number: 1345

Mark C. Elliott 3329

Half course (fall term; repeated spring term). Hours to be arranged.

## **Tibetan and Himalayan Studies**

### **Cross-listed Courses**

#### **Religion 1705. Buddhism in Tibet**

#### **Tibetan 111. The History and Civilization of Tibet and the Buddhist Himalayas**

#### **Tibetan 219. Tibetan Religious Literature**



## ***Vietnam: Language Courses***

### ***For Undergraduates and Graduates***

#### **Vietnamese Ba. Elementary Vietnamese**

Catalog Number: 3873

Binh Ngo

Half course (fall term). M., W., F., at 9; Tu., Th., hours to be arranged. EXAM GROUP: 2, 10  
Surveys the fundamentals of Vietnamese phonetics, grammar, and vocabulary to provide students with basic ability to understand, speak, read, and write Vietnamese. Conversational ability is stressed through an interactive, communication-oriented approach.

#### **Vietnamese Bb. Elementary Vietnamese**

Catalog Number: 9940

Binh Ngo

Half course (spring term). Tu., Th., 8:30–10, M., W., at 9. EXAM GROUP: 2, 10, 11  
Continuation of Vietnamese Ba, with introduction of additional Vietnamese texts and advertisements to enhance reading skills.

Prerequisite: Vietnamese Ba or permission of the instructor.

#### **Vietnamese 120a (formerly Vietnamese 101a). Intermediate Vietnamese**

Catalog Number: 3276

Binh Ngo

Half course (fall term). Tu., Th., 11:30–1 and two additional hours to be arranged. EXAM GROUP: 13, 14

Further development of speaking, reading, writing, and aural comprehension. Texts on Vietnamese geography, history, culture, and customs will be used, as well as audiotapes and videos. Students are expected to speak Vietnamese in all class discussions.

Note: Conducted entirely in Vietnamese.

Prerequisite: Vietnamese Bb or permission of the instructor.

#### **Vietnamese 120b (formerly Vietnamese 101b). Intermediate Vietnamese**

Catalog Number: 6178

Binh Ngo

Half course (spring term). M., W., F., at 10 with speaking section F., at 9 or 11. EXAM GROUP: 3

Continuation of Vietnamese 120a.

Note: Conducted entirely in Vietnamese.

Prerequisite: Vietnamese 120a or permission of the instructor.

#### **Vietnamese 130a (formerly Vietnamese 103a). Advanced Vietnamese**

Catalog Number: 6287

Binh Ngo

Half course (fall term). Hours to be arranged. EXAM GROUP: 4, 13

Development of high proficiency in Vietnamese. Introduction of complex grammar and vocabulary, using authentic Vietnamese texts, audiotapes, videos, and translation of English





*news articles into Vietnamese. Discussions focus on selected short stories and poems.*

*Note: Conducted entirely in Vietnamese.*

*Prerequisite: Vietnamese 120b or permission of the instructor.*

**Vietnamese 130b (formerly Vietnamese 103b). Advanced Vietnamese**

Catalog Number: 3968

Binh Ngo

Half course (spring term). M., Th., 3–5. EXAM GROUP: 8, 9, 17, 18

Continuation of Vietnamese 130a.

*Note: Conducted entirely in Vietnamese.*

*Prerequisite: Vietnamese 130a or permission of the instructor.*

***Vietnam: History Courses***

***Cross-listed Courses***

***[Anthropology 2880 (formerly Anthropology 238). Reorienting Southeast Asia]***

***Foreign Cultures 60. Individual, Community, and Nation in Vietnam***

***[Historical Study B-68. America and Vietnam: 1945-1975]***

***History 1821. Modern Vietnam***

***Graduate Courses of Reading and Research***

***\*Vietnamese 300. Reading and Research***

Catalog Number: 7211

Binh Ngo 1383

## Economics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Economics***

Alberto F. Alesina, Nathaniel Ropes Professor of Political Economy (*Chair*)

Philippe Aghion, Robert C. Waggoner Professor of Economics

Manuel Amador, Assistant Professor of Economics

Attila Ambrus, Assistant Professor of Economics

Pol Antràs, Assistant Professor of Economics

Silvia Ardagna, Assistant Professor of Economics

Beatriz Armendariz, Lecturer on Economics



Susan Athey, Visiting Professor of Economics (*Stanford University*) (*fall term only*)  
 Robert J. Barro, Paul M. Warburg Professor of Economics (*on leave spring term*)  
 Efraim Benmelech, Assistant Professor of Economics  
 Michael Bordo, Visiting Professor of Economics (*Rutgers University*) (*spring term only*)  
 John Y. Campbell, Morton L. and Carole S. Olshan Professor of Economics  
 Gary Chamberlain, Louis Berkman Professor of Economics  
 Richard N. Cooper, Maurits C. Boas Professor of International Economics  
 David M. Cutler, Otto Eckstein Professor of Applied Economics and Dean for the Social Sciences  
 Rajeev H. Dehejia, Visiting Associate Professor of Economics (*Columbia University*)  
 Ulrich Doraszelski, Assistant Professor of Economics  
 Graham Elliott, Visiting Professor of Economics (*University of California, San Diego*) (*spring term only*)  
 Martin Feldstein, George F. Baker Professor of Economics  
 Erica M. Field, Assistant Professor of Economics  
 Raymond J. Fisman, Visiting Associate Professor of Economics (*Columbia University Business School*)  
 Doireann M. Fitzgerald, Visiting Assistant Professor of Economics (*University of California, Santa Cruz*)  
 Christopher L. Foote, Lecturer on Economics  
 Richard B. Freeman, Herbert S. Ascherman Professor of Economics (*on leave 2005-06*)  
 Leora R. Friedberg, Visiting Assistant Professor of Economics (*University of Virginia*) (*fall term only*)  
 Benjamin M. Friedman, William Joseph Maier Professor of Political Economy, Associate of Dunster House (*Director of Undergraduate Studies*)  
 Nicola C. Fuchs-Schündeln, Assistant Professor of Economics  
 Drew Fudenberg, Frederic E. Abbe Professor of Economics  
 Edward L. Glaeser, Professor of Economics  
 Claudia Goldin, Henry Lee Professor of Economics (*on leave 2005-06*)  
 Gita Gopinath, Assistant Professor of Economics  
 Jerry R. Green, John Leverett Professor and David A. Wells Professor of Political Economy  
 Joseph E. Harrington, Visiting Professor of Economics (*Johns Hopkins University*)  
 Oliver S. Hart, Andrew E. Furer Professor of Economics  
 Elhanan Helpman, Galen L. Stone Professor of International Trade  
 Caroline M. Hoxby, Harvard College Professor and Allie S. Freed Professor of Economics  
 Rustam Ibragimov, Assistant Professor of Economics  
 Guido W. Imbens, Visiting Professor of Economics (*University of California, Berkeley*) (*fall term only*)  
 Dale W. Jorgenson, Samuel W. Morris University Professor (*on leave fall term*)  
 Lawrence F. Katz, Elisabeth Allison Professor of Economics (*on leave 2005-06*)  
 Michael R. Kremer, Gates Professor of Developing Societies (*on leave 2005-06*)  
 David I. Laibson, Professor of Economics (*on leave spring term*)  
 N. Gregory Mankiw, Robert M. Beren Professor of Economics  
 Stephen A. Marglin, Walter S. Barker Professor of Economics  
 James L. Medoff, Meyer Kestenbaum Professor of Labor and Industry  
 Marc J. Melitz, John and Ruth Hazel Associate Professor of the Social Sciences (*on leave 2005-*



06)

Jeffrey A. Miron, Visiting Professor of Economics  
Markus M. Möbius, Associate Professor of Economics  
Randall Morck, Visiting William Lyon MacKenzie King Professor of Canadian Studies,  
Associate of the Department of Economics (*University of Alberta*) (*fall term only*)  
Marcelo J. Moreira, Assistant Professor of Economics (*on leave spring term*)  
Julie H. Mortimer, Associate Professor of Economics  
Sendhil Mullainathan, Professor of Economics  
Ariel Pakes, Steven McArthur Heller Professor of Economics (*on leave 2005-06*)  
Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)  
Kenneth Rogoff, Thomas D. Cabot Professor of Public Policy  
Alvin E. Roth, George Gund Professor of Economics (*FAS*) and George Gund Professor of  
Economics and Business Administration (*Business School*)  
Matthias Schündeln, Assistant Professor of Economics and of Social Studies  
Amartya Sen, Lamont University Professor  
Andrei Shleifer, Whipple V. N. Jones Professor of Economics (*on leave 2005-06*)  
Peter M. Spiegler, Lecturer on Economics  
Jeremy C. Stein, Moise Y. Safra Professor of Economics  
James H. Stock, Professor of Economics (*on leave spring term*)  
Lawrence H. Summers, Professor of Economics and President of Harvard University  
Samuel B. Thompson, Associate Professor of Economics (*on leave 2005-06*)  
Alekh Tsyvinski, Assistant Professor of Economics  
Martin L. Weitzman, Ernest E. Monrad Professor of Economics  
Jeffrey G. Williamson, Laird Bell Professor of Economics  
Jeffrey Wolcowitz, Senior Lecturer on Economics and Associate Dean of Harvard College  
Luigi Zingales, Frank W. Taussig Research Professor of Economics (*University of Chicago  
Graduate School of Business*)

***Other Faculty Offering Instruction in the Department of Economics***

Nava Ashraf, Assistant Professor of Business Administration (*Business School*)  
Christopher N. Avery, Professor of Public Policy (*Kennedy School*)  
George P. Baker, MBA Class of 1966 Professor of Business Administration (*Business School*)  
Lucian Arye Bebchuk, William J. Friedman and Alicia Townsend Friedman Professor of Law,  
Economics, and Finance (*Law School*)  
David Bloom, Clarence James Gamble Professor of Economics and Demography (*Public  
Health*)  
David Canning, Professor of Economics and International Health (*Public Health*)  
Richard E. Caves, Nathaniel Ropes Research Professor of Political Economy  
George Carl Chacko, Associate Professor of Business Administration (*Business School*)  
John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs  
Randolph B. Cohen, Assistant Professor of Business Administration (*Business School*)  
Mihir A. Desai, Assistant Professor of Business Administration (*Business School*)  
Jeffrey A. Frankel, James W. Harpel Professor of Capital Formation and Growth (*Kennedy  
School*)



Pankaj Ghemawat, Jaime and Josefina Chua Tiampo Professor of Business Administration (*Business School*)  
 Paul Gompers, Roy and Elizabeth Simmons Professor of Business Administration (*Business School*)  
 Robert T. Jensen, Associate Professor of Public Policy (*Kennedy School*)  
 Christine M. Jolls, Professor of Law (*Law School*)  
 Louis E. Kaplow, Professor of Law (*Law School*)  
 Asim I. Khwaja, Assistant Professor of Public Policy (*Kennedy School*)  
 Joshua Lerner, Jacob H. Schiff Professor of Investment Banking (*Business School*)  
 Jeffrey B. Liebman, Professor of Public Policy (*Kennedy School*)  
 Robert C. Merton, George Fisher Baker Professor of Administration (*Business School*)  
 Nolan H. Miller, Assistant Professor of Public Policy (*Kennedy School*)  
 Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*)  
 James Robinson, Professor of Government  
 Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)  
 Mark R. Rosenzweig, Professor of Public Policy (*Kennedy School*)  
 Donald B. Rubin, John L. Loeb Professor of Statistics  
 David S. Scharfstein, Edmund Cogswell Converse Professor of Finance and Banking (*Business School*)  
 Robert N. Stavins, Albert Pratt Professor of Business and Government (*Kennedy School*)  
 Richard Tuck, Frank G. Thomson Professor of Government  
 Roberto Mangabeira Unger, Roscoe Pound Professor of Law (*Law School*)  
 Andres Velasco, Sumitomo Fasid Professor of International Development (*Kennedy School*)  
 Luis Manuel Viceira, Assistant Professor of Business Administration (*Business School*)  
 Paul C. Weiler, Henry J. Friendly Professor of Law (*Law School*)

Department of Economics course listings are numerically ordered as follows:

900-999: Tutorials and Senior Research Seminars in Economics

1000-1099 and 2000-2099: General Economics; Economic Theory; History of Economics

1100-1199 and 2100-2199: Econometrics and Quantitative Methods

1300-1399 and 2300-2399: Economic History; Development Economics

1400-1499 and 2400-2499: Monetary and Fiscal Theory and Policy; Public Sector Economics

1500-1599 and 2500-2599: International Economics

1600-1699 and 2600-2699: Industrial Organization and Regulation; Environmental Economics

1700-1799 and 2700-2799: Financial Economics

1800-1899 and 2800-2899: Labor, Human Resources, and Income Distribution; Urban



## Economics

2000-2999: Open to honors undergraduates with the permission of the instructor

3000-3999: Graduate Courses of Reading and Research

Social Analysis 10: Principles of Economics, which is listed under the Core Curriculum, is the full-year introductory course in Economics. Social Analysis 10 is designed both for potential concentrators and for those who intend no further work in the field. The Department of Economics strongly encourages students considering concentration to take this course in their freshman year. This is a required course for all economics concentrators and a prerequisite for higher level courses in economics.

### ***Tutorials and Senior Research Seminars in Economics***

#### ***Primarily for Undergraduates***

#### **\*Economics 910r. Supervised Reading and Research**

Catalog Number: 1020

*Benjamin M. Friedman*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading leading to a long term paper on a topic or topics not covered by regular courses.

*Note:* Does not count for concentration credit and may not be taken Pass/Fail. Requires signatures of the adviser and of the Director of Undergraduate Studies. Application available at the Economics Undergraduate Office at Littauer Center, North Yard.

#### **\*Economics 970. Tutorial — Sophomore Year**

Catalog Number: 7923 Enrollment: Limited to concentrators.

*Jeffrey Wolcowitz*

*Half course (spring term). First Meeting: W., Feb 1, 2–3:30 pm, Emerson Hall 105.*

A series of small seminars focusing on applications of economic theory to real problems.

*Note:* One term required of all Economics concentrators.

*Prerequisite:* Both terms of Social Analysis 10; Statistics 100; Economics 1010a or 1011a; and current enrollment in Economics 1010b or 1011b.

#### **\*Economics 980. Tutorial — Junior Year**

Catalog Number: 3281

*Benjamin M. Friedman*

*Half course (fall term). Tu., Th., 1–2:30.*

A thorough review of intermediate microeconomics and macroeconomics.

*Note:* Required of and limited to concentrators who received below a B-/C+ average in the Economics 1010/1011 sequence.

#### ***Economics 985 Senior Research Seminars***



These seminars are limited to seniors writing senior honor theses. Each seminar focuses on the research topics of interest to the participants. Emphasis is placed on research design, methodological problems, literature review, and sources of data. Regular student presentations of work in progress are required. The major course requirement is an original research paper each term. An Economics 985 seminar taken in the senior year substitutes for Economics 990, and seniors will not be allowed to enroll concurrently in both courses. All 985 seminars are limited to 12 students.

**\*Economics 985a. Research in Microeconomics**

Catalog Number: 7166

*Attila Ambrus*

*Full course. M., 6–8 pm. EXAM GROUP: 9*

Research seminar for seniors writing theses in theoretical and applied microeconomics. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

**\*Economics 985c. Research in Labor Economics**

Catalog Number: 5409

*Caroline M. Hoxby*

*Full course. Tu., 4–6.*

Senior thesis research seminar in labor economics and related topics. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

**\*Economics 985d. Research in Economic Development**

Catalog Number: 4989

*Doireann M. Fitzgerald (University of California, Santa Cruz)*

*Full course. M., 4–6. EXAM GROUP: 9*

Workshop for seniors writing theses in the areas of economic history and economic development. Emphasis on choice of research topics, primary sources, data sources, and research methods. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

**\*Economics 985e. Research in Macroeconomics**

Catalog Number: 3740

*Christopher L. Foote*

*Full course. Tu., 4–6. EXAM GROUP: 18*

Provides intellectual support and constructive criticism for students involved in research in the fields of monetary and fiscal policy, business cycles, and economic growth. Initial meetings focus on finalizing research topics, data sources, and research methods. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

**\*Economics 985f. Research in International Trade and Finance**

Catalog Number: 7157



*Richard N. Cooper*

*Full course. M., 3–5:30. EXAM GROUP: 8, 9*

Workshop for seniors writing theses in international trade and finance. Emphasis on choice of research topics, methodology, and international economic theory. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

**\*Economics 985h. Research in Financial Markets**

Catalog Number: 0350

*Efraim Benmelech*

*Full course. Th., 4–6. EXAM GROUP: 18*

Workshop for seniors writing theses in finance. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honor thesis are required. Topics include asset pricing and corporate finance.

**\*Economics 985i. Research in Health and Population**

Catalog Number: 3099

*David Canning (Public Health)*

*Full course. Tu., 4:30–6:30. EXAM GROUP: 18*

Senior thesis research seminar in health and population economics and related topics. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

**\*Economics 985k. Research in Public Economics**

Catalog Number: 0871

*Jeffrey A. Miron*

*Full course. M., 2–4. EXAM GROUP: 7, 8*

Research seminar for seniors writing theses in public economics. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required. Topics have included taxation, health economics, environmental and resource economics, and education.

**\*Economics 990. Tutorial — Senior Year**

Catalog Number: 7342

*Benjamin M. Friedman and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Students who are writing a senior thesis out of sequence (i.e., beginning in the spring) must enroll in Economics 990 in the spring and complete the course in the fall. Students must write a 25-page paper at the end of the first term of Economics 990. Students currently enrolled in Economics 985 may not enroll in Economics 990.

***General Economics; Economic Theory; History of Economics***

***For Undergraduates and Graduates***





### **Economics 1010a. Microeconomic Theory**

Catalog Number: 1862

*Jeffrey Wolcowitz*

*Half course (fall term). M., W., F., at 10; and a one-hour weekly section to be arranged. EXAM GROUP: 3*

Focuses on the optimizing behavior of individual consumers and firms and the coordination of these individual decisions through markets, including the evaluation of market outcomes. Topics include the theory of the consumer, the theory of the firm, decisions involving time and risk, perfect competition, monopoly and monopsony, oligopoly and game theory, markets with asymmetric information, and externalities and public goods.

*Note:* Economics 1010a fulfills the intermediate microeconomic theory requirement for economics concentrators. Students may take either Economics 1010a or Economics 1011a for credit. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

*Prerequisite:* Social Analysis 10 and Mathematics 1a or their equivalents.

### **Economics 1010b. Macroeconomic Theory**

Catalog Number: 2924

*Nicola C. Fuchs-Schündeln*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly section to be arranged. EXAM GROUP: 12, 13*

Theories and evidence on economic growth and fluctuations. Determination of gross domestic product, investment, consumption, employment, and unemployment. Analysis of interest rates, wage rates, and inflation. Roles of fiscal and monetary policies. Extensions to the international economy.

*Note:* Economics 1010b fulfills the intermediate macroeconomic theory requirement for economics concentrators. Students may take either Economics 1010b or Economics 1011b for credit. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

*Prerequisite:* Social Analysis 10. While no specific mathematics course is required, knowledge of calculus at the level of Mathematics 1a is assumed.

### **Economics 1011a. Microeconomic Theory**

Catalog Number: 7230

*Edward L. Glaeser*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Economics 1011a is similar to Economics 1010a, but uses more mathematics and covers more material. The course aims to teach the basic tools of economics and to apply them to a wide range of human behavior. Tools include consumer theory, optimization under uncertainty, game theory, welfare economics, incentive theory, and the economics of information. Topics include industrial organization, public finance, law and economics, the economics of the family, religion, and riots.

*Note:* Economics 1011a fulfills the intermediate microeconomic theory requirement for economics concentrators. Students may take either Economics 1010a or Economics 1011a for credit. This course, when taken for a letter grade, meets the Core area requirement for Social



Analysis.

*Prerequisite:* Mathematics 21a or permission of the instructor.

### **Economics 1011b. Macroeconomic Theory**

Catalog Number: 6993

*Philippe Aghion and Aleh Tsyvinski*

*Half course (spring term). Tu., Th., 10-11:30, and a one-hour weekly section to be arranged.*

**EXAM GROUP:** 12, 13

The same topics as in 1010b, but with a more mathematical approach.

*Note:* Economics 1011b fulfills the intermediate macroeconomic theory requirement for economics concentrators. Students may take either Economics 1010b or Economics 1011b for credit. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

*Prerequisite:* Social Analysis 10. While no specific mathematics course is required, Mathematics 20 or 21 is recommended.

### **Economics 1017. A Libertarian Perspective on Economics and Social Policy**

Catalog Number: 1197

*Jeffrey A. Miron*

*Half course (fall term). Tu., Th., 11:30–1 and a section to be arranged. EXAM GROUP: 13, 14*

Analyses the libertarian perspective on economic and social policy. This perspective differs from both liberal and conservative views, arguing for minimal government in most arenas. Specific policies addressed include drug prohibition, gun control, public education, abortion rights, gay marriage, income redistribution, and campaign finance regulation.

*Prerequisite:* Social Analysis 10.

### **Economics 1025. Theory of Capital and Income**

Catalog Number: 0121

*Martin L. Weitzman*

*Half course (fall term). M., W., 1–2:30 and a section on Friday 1-2:30. EXAM GROUP: 6, 7*

Mathematically advanced. Applies the maximum principle of optimal control theory to analyze a wide variety of dynamic economic models. Emphasizes basic principles and fundamental unity of all problems involving capital, investment, and time—including harvesting of renewable resources, extraction of non-renewable resources, analysis of dynamic environmental externalities, optimal growth, equilibrium of competitive stock markets, and the economic theory of the connection between income, accounting, sustainability, and share valuation.

*Prerequisite:* Economics 1011a and Mathematics 20.

### **[Economics 1030. Psychology and Economics]**

Catalog Number: 4709 Enrollment: Limited to 80.

*David I. Laibson and Andrei Shleifer*

*Half course (spring term). Hours to be arranged.*

Integrates psychological and economic analysis of behavior. Psychological topics include social preferences, impulsivity, bounded rationality, loss-aversion, over-confidence, self-serving biases, hedonics, and neuroscience. Discusses how psychological experiments have been used to learn about preferences, cognition, behavior. Economic topics include arbitrage, equilibrium, rational



choice, utility maximization, Bayesian beliefs, game theory. Integrates these psychological and economic concepts to understand behavioral phenomena such as credit card borrowing, portfolio choice, retirement saving, procrastination, addiction, asset pricing, auction bidding, labor supply, cooperation.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Economics 1010a or 1011a, and knowledge of multivariate calculus.

### **Economics 1035. Policy Applications of Psychology and Economics**

Catalog Number: 1687 Enrollment: Limited to 80.

*Sendhil Mullainathan*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Integrates psychological with economic approaches to traditional public policy issues.

International applications include public health, epidemics such as AIDS, fertility, education and psychological impacts of poverty. Domestic applications include discrimination and affirmative action, drugs, crime and unemployment.

*Prerequisite:* Economics 1010a or 1011a.

### **Economics 1051. Game Theory in Economics**

Catalog Number: 3692

*Attila Ambrus*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The course will provide participants with an introduction to the modern game theory, focusing on its use in economics. Main ideas of game theory are introduced and illustrated using examples from industrial organization, labor economics, and macroeconomics.

*Prerequisite:* Economics 1010a or 1011a

### **Economics 1052. Introduction to Game Theory**

Catalog Number: 2634

*Markus M. Möbius*

*Half course (spring term). Tu., Th., 10–11:30, and a one-hour weekly section to be arranged.*

*EXAM GROUP: 12, 13*

An introduction to game theory and its applications to economics at a high level of rigor. Topics include extensive form and strategic form games, Nash equilibrium and Nash's existence theorem, subgame-perfect equilibrium, Bayesian equilibrium, and applications to repeated games, auctions, and bargaining.

*Prerequisite:* Economics 1011a and Mathematics 21a, or equivalent.

***Primarily for Graduates***

### **Economics 2001. The Behavioral & Experimental Economics Workshop**

Catalog Number: 8732

*Alvin E. Roth (FAS, Business School), Edward L. Glaeser, and David I. Laibson*

*Full course (indivisible). Tu., 2:30–4. EXAM GROUP: 16, 17*

Presents current research in the Behavioral and Experimental Economics field.



**\*Economics 2010a. Economic Theory**

Catalog Number: 8656

*Edward L. Glaeser and Drew Fudenberg*

*Half course (fall term). Tu., Th., 10–11:30, and a 1.5-hour weekly section to be arranged. EXAM GROUP: 12, 13*

Covers the theory of individual and group behavior. Topics include consumer theory, producer theory, behavior under uncertainty, externalities, monopolistic distortions, game theory, oligopolistic behavior, and asymmetric information.

*Note:* Enrollment is limited to students in the economics and business economics PhD programs.

*Prerequisite:* Mathematics 116 or equivalent; can be taken concurrently.

**Economics 2010b. Economic Theory**

Catalog Number: 8659

*Jerry R. Green and Oliver S. Hart*

*Half course (spring term). Tu., Th., 10–11:30, and a 1.5-hour weekly section to be arranged. EXAM GROUP: 12, 13*

Topics include general equilibrium, the core, externalities and public goods, moral hazard, social choice theory, signaling, and mechanism design.

*Prerequisite:* Economics 2010a.

**Economics 2010c (formerly Economics 2010d). Economic Theory**

Catalog Number: 4431

*Robert J. Barro and David I. Laibson*

*Half course (fall term). Tu., Th., 1–2:30, and a 1.5-hour weekly section to be arranged. EXAM GROUP: 15, 16*

Topics include discrete-time and continuous-time dynamic programming, consumption, investment, economic growth, and business cycles.

*Note:* Enrollment is strictly limited to PhD students in the Economics Department, Business Economics program, and PEG program. Qualified Harvard undergraduates may also enroll. No other students may take the course for credit or as auditors.

**Economics 2010d (formerly Economics 2010c). Economic Theory**

Catalog Number: 2041

*Alberto F. Alesina, Manuel Amador, and Benjamin M. Friedman*

*Half course (spring term). M., W., 8:30–10. EXAM GROUP: 1, 2*

A basic course in graduate macroeconomics, including models of business fluctuations, theories of consumption, investment and money demand, analyses of monetary and fiscal policy, and introduction to open economy macroeconomic issues.

*Note:* Enrollment is strictly limited to PhD students in the Economics Department, Business Economics program, and PEG program. Qualified Harvard undergraduates may also enroll. No other students may take the course for credit or as auditors.

*Prerequisite:* Mathematics 116 or the equivalent; can be taken concurrently.

**\*Economics 2020a. Microeconomic Theory I**

Catalog Number: 0339 Enrollment: Limited to 102.

*Jerry R. Green, Nolan H. Miller (Kennedy School), and Peter Speigler*



*Half course (fall term). M., W., 8:30–10, and a one-hour weekly section to be arranged. EXAM GROUP: 1, 2*

A comprehensive course in economic theory designed for doctoral students in all parts of the university. Consumption, production, uncertainty, markets, general equilibrium. Applications to policy analysis and business decisions. Emphasizes the use of economic theory in practical research.

*Note:* Offered jointly with the Kennedy School as API-111 and the Business School as 4010.

*First Meeting:* Monday, September 19 in Littauer 140, KSG.

*Prerequisite:* Two years of calculus and one course in probability theory. Thorough background in microeconomic theory at the intermediate level. Undergraduates with the appropriate background are welcome.

### **\*Economics 2020b. Microeconomic Theory II**

Catalog Number: 4058

*Jerry R. Green and Christopher N. Avery (Kennedy School)*

*Half course (spring term). M., W., 8:30–10, and a one-hour weekly section to be arranged.*

*EXAM GROUP: 1, 2*

A continuation of Economics 2020a. Topics include game theory, economics of information, incentive theory, and welfare economics.

*Note:* Offered jointly with the Kennedy School as API-112 and the Business School as 4011.

*Prerequisite:* Economics 2010a or 2020a.

### **[Economics 2030. Psychology and Economics]**

Catalog Number: 3828

*Sendhil Mullainathan*

*Half course (fall term). Hours to be arranged.*

Explores economic and psychological models of human behavior. Theoretical topics include bounded rationality, intertemporal choice, decision making under uncertainty, inference, choice heuristics, and social preferences. Economic applications include asset pricing, corporate finance, macroeconomics, labor, development, and industrial organization.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Primarily for graduate students but open to undergraduates. Knowledge of multivariable calculus and econometrics.

### **[Economics 2035. Dynamic Programming]**

Catalog Number: 1851

*David I. Laibson*

*Half course (spring term). Hours to be arranged.*

Covers dynamic programming, including both discrete and continuous-time methods. Considers applications to search, investment, option valuation, consumption, and finance. Discusses computational methods for generating numerical solutions.

*Note:* Expected to be given in 2006–07.

### **Economics 2040. Experimental Economics**

Catalog Number: 8485 Enrollment: Limited to 48.

*Alvin E. Roth (FAS, Business School)*



*Half course (fall term). F., 9–12. EXAM GROUP: 2, 3, 4*

An introduction to experimental economics, and some of the major subject areas that have been addressed by laboratory experiments. We concentrate on *series* of experiments, to see how experiments build on one another.

*Note:* Offered jointly with the Business School as 4160.

### **Economics 2052. Game Theory I: Equilibrium Theory**

Catalog Number: 3690

*Drew Fudenberg*

*Half course (spring term). M., 4–7 pm. EXAM GROUP: 9*

Equilibrium analysis and its applications. Topics vary, but typically include equilibrium refinements (sequential equilibrium), the equilibria of various classes of games (repeated games, auctions, signaling games) and the definition and application of common knowledge.

*Prerequisite:* Economics 2010a or permission of the instructor.

### **Economics 2053. Game Theory II: Topics in Game Theory**

Catalog Number: 1898

*Attila Ambrus*

*Half course (fall term). W., 5:30–8:30 pm. EXAM GROUP: 9*

Aimed at students planning to do research in game theory. Topics vary from year to year; examples include evolutionary game theory, models of learning and imitation, epistemological models, coalitional agreements, and the foundations of games of incomplete information.

### **[Economics 2054. Social Choice and Welfare Economics]**

Catalog Number: 1118

*Amartya Sen*

*Half course (fall term). Hours to be arranged.*

A basic course in social choice theory and its philosophical foundations. An examination of “impossibility” results, collective rationality, domain restrictions, interpersonal comparability, and the role of rights and liberties.

*Note:* Expected to be given in 2006–07.

### **Economics 2056. Market Design**

Catalog Number: 3634

*Alvin E. Roth (FAS, Business School)*

*Half course (spring term). F., 9–12. EXAM GROUP: 2, 3, 4*

Deals with the theory and practice of market design, with prominent examples drawn from auctions and labor markets.

*Note:* Offered jointly with the Business School as 4150.

### **Economics 2057. Rational Choice**

Catalog Number: 3755

*Amartya Sen and Christine M. Jolls (Law School)*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Rationality is a central idea in economics, law, politics and moral and political philosophy. This course will provide a critical examination of the different ways of characterizing rationality and



its requirements.

*Note:* Open to graduate students in Economics, Philosophy, Government and Law. Offered jointly with the Law School as 45510-11.

### **Economics 2058. Networks and Social Capital**

Catalog Number: 2872

*Markus M. Möbius*

*Half course (spring term). Tu., 4–7 p.m. EXAM GROUP: 18*

Provides a rigorous theoretical introduction into network models. Discusses the emerging empirical literature on economic and social networks. Topics include the role of networks in technological progress, buyer-supplier networks, and social capital.

### **Economics 2059. Decision Theory**

Catalog Number: 3825

*Andrea Wilson*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

First half focuses on classical models of choice theory, formalizing the notion of rationality and exploring its behavioral implications. The second half focuses on recent research, incorporating insights from psychology and allowing for boundedly-rational agents.

### **Economics 2060. Contract Theory**

Catalog Number: 1404

*Philippe Aghion*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

Recent developments in contract theory. Includes hidden action and hidden information models, dynamic agency issues, incomplete contracts, and applications of contract theory to theories of the firm and corporate financial structure.

### **Economics 2080. Economics and Politics: The Foundations of Economics in Political Theory**

Catalog Number: 6576

*Benjamin M. Friedman and Richard Tuck*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Offers graduate students in relevant disciplines the chance to study the historical origins of central ideas in modern economics and to discuss their philosophical character.

*Prerequisite:* A basic knowledge of economics is assumed.

### **Economics 2086. The Theory Workshop**

Catalog Number: 6378

*Jerry R. Green and members of the Department*

*Half course (fall term; repeated spring term). Th., 4–6. EXAM GROUP: 18*

## **Econometrics and Quantitative Methods**

### **For Undergraduates and Graduates**





### **Economics 1123. Introduction to Econometrics**

Catalog Number: 0813

*James H. Stock (fall term) and Graham Elliott (University of California, San Diego) (spring term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 11:30–1; Spring: Tu., Th., 1–2:30; and a one-hour weekly section to be arranged. EXAM GROUP: Fall: 13, 14; Spring: 15, 16*

An introduction to multiple regression techniques with focus on economic applications.

Discusses extensions to discrete response, panel data, and time series models, as well as issues such as omitted variables, missing data, sample selection, randomized and quasi-experiments, and instrumental variables. Aims to provide students with an understanding of and ability to apply econometric and statistical methods using computer packages.

*Note:* Students may take either Economics 1123 or Statistics 139 for credit. Statistics 139 will not count as econometrics requirement. Also, Economics 1123 may not be taken for credit if taken after Economics 1126, but credit will be given for both courses if Economics 1123 is taken first.

*Prerequisite:* Statistics 100.

### **Economics 1126. Quantitative Methods in Economics**

Catalog Number: 4076

*Gary Chamberlain*

*Half course (spring term). Tu., Th., 11:30–1 and a weekly section to be arranged. EXAM GROUP: 13, 14*

Topics include elements of statistical decision theory and related experimental evidence; some game theory and related experimental evidence; maximum likelihood; logit, normal, probit, and ordered probit regression models; panel data models with random effects; omitted variable bias and random assignment; incidental parameters and conditional likelihood; demand and supply.

*Note:* Economics 1123 may not be taken for credit if taken after Economics 1126, but credit will be given for both courses if Economics 1123 is taken first.

*Prerequisite:* Statistics 100 or preferably 110; Mathematics 20.

### ***Cross-listed Courses***

### **Statistics 100. Introduction to Quantitative Methods**

#### ***Primarily for Graduates***

### **Economics 2110. Introductory Probability and Statistics for Economists**

Catalog Number: 7213

*Marcelo J. Moreira*

*Half course (fall term). Tu., Th., 8:30–10 and a 1.5-hour weekly section to be arranged. EXAM GROUP: 10, 11*

Introduction to probability and statistics. Emphasis on general methods applicable to both econometrics and economic theory. Topics include probability spaces, random variables, limit laws, estimation, hypothesis testing, and Bayesian methods.

*Prerequisite:* Statistics (Stat 100), Linear Algebra and Calculus (Math 21a and 21b), and Real Analysis (Math 112).



**Economics 2120. Introduction to Applied Econometrics**

Catalog Number: 2352

*Dale W. Jorgenson*

*Half course (spring term). Tu., Th., 2:30–4 and a weekly section to be arranged. EXAM GROUP: 16, 17*

Introduction to methods employed in applied econometrics, including linear regression, instrumental variables, panel data techniques, generalized method of moments, and maximum likelihood. Includes detailed discussion of papers in applied econometrics and computer exercises using standard econometric packages.

*Note:* Enrollment limited to PhD candidates in economics, business economics, health policy, public policy, and political economy and government (PEG).

*Prerequisite:* Economics 2110 or equivalent.

**[Economics 2130 (formerly Economics 2131). Applied Econometrics]**

Catalog Number: 2211

*Dale W. Jorgenson*

*Half course (fall term). Hours to be arranged.*

Advanced methods in applied econometrics, including nonlinear regression, discrete and limited dependent variables, models of selection, and stationary and non-stationary time series. Includes detailed discussion of empirical applications.

*Note:* Expected to be given in 2006–07. Students complete a short research project in applied econometrics.

*Prerequisite:* Economics 2120 or equivalent.

**Economics 2140. Econometric Methods**

Catalog Number: 7210

*Gary Chamberlain*

*Half course (fall term). Tu., Th., 11:30–1, and a one-hour weekly section to be arranged. EXAM GROUP: 13, 14*

Statistical decision theory with applications to portfolio choice, panel data topics, selection bias, demand and supply, qualitative choice, and quantile regression.

*Prerequisite:* Economics 2120 or equivalent.

**[Economics 2141. Advanced Topics in Microeconometrics]**

Catalog Number: 9305

*Marcelo J. Moreira*

*Half course (spring term). Hours to be arranged.*

Topics include first-order asymptotics and GMM, second-order asymptotics, bias correction, bootstrap, censoring, panel data models with fixed effects, simultaneous equations model, weak instruments, and average treatment effects.

*Note:* Expected to be given in 2006–07.

**[Economics 2142. Time Series Analysis]**

Catalog Number: 4414

*James H. Stock*

*Half course (fall term). Hours to be arranged.*



A survey of modern time series econometrics. Topics include univariate models, vector autoregressions, linear and nonlinear filtering, frequency domain methods, unit roots, structural breaks, empirical process theory asymptotics, forecasting, and applications to macroeconomics and finance.

*Note:* Expected to be given in 2006–07.

### **[Economics 2144. Advanced Applied Econometrics]**

Catalog Number: 7686

*Ariel Pakes*

*Half course (spring term). Hours to be arranged.*

An introduction to the theory and application of recently developed econometric techniques used in advanced applied work. Simulation techniques, estimation subject to inequality restrictions, as well as semiparametric and nonparametric tools will be studied in a variety of empirical contexts.

*Note:* Expected to be given in 2006–07.

### **Economics 2146. Topics in Financial Econometrics**

Catalog Number: 8715

*Rustam Ibragimov*

*Half course (spring term). F., 2–5. EXAM GROUP: 7, 8, 9*

A discussion of modern topics in financial econometrics. Topics include testing for return predictability, inference in consumption-based asset pricing models, and estimation of continuous time models. Includes discussion of empirical applications.

*Prerequisite:* Economics 2120 or equivalent.

### **Economics 2149. Computational Economics**

Catalog Number: 7236

*Ulrich Doraszelski*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

Graduate introduction to computational approaches for solving economic models. We will formulate economic problems in computationally tractable form and use techniques from numerical analysis to solve them. We will study examples of computational techniques in the current economics literature.

### **Economics 2162. The Econometrics Workshop**

Catalog Number: 2372

*James H. Stock and members of the Department*

*Full course. Th., 4:30–6. EXAM GROUP: 18*

Current research topics in theory and applications of econometrics.

### ***Cross-listed Courses***

### **Statistics 214. Causal Inference in Statistics and the Social and Biomedical Sciences**

### ***Economic History; Development Economics***

### ***For Undergraduates and Graduates***



### **Economics 1315. Economic Development in East Asia**

Catalog Number: 1920

*Dwight H. Perkins*

*Half course (spring term). M., W., (F.), at 11, and a one-hour weekly section to be arranged.*

**EXAM GROUP: 4**

Covers the modern development and economic history of East and Southeast Asia. Topics include explanations for the high economic growth rates in the region; the transition from economies based on central planning to economies relying on market forces; industrial policies and the origins of the Asian financial crisis; the role of natural resources; differing approaches to income distribution and social welfare; and other related issues of importance to the region.

*Prerequisite:* Social Analysis 10.

### **Economics 1320. The Latin American Economy**

Catalog Number: 2454

*Beatriz Armendariz*

*Half course (spring term). Tu., Th., 11:30–1, and a one-hour weekly section to be arranged.*

**EXAM GROUP: 13, 14**

Economic analysis of historical episodes that have shaped recent development strategies in the region. Focuses on the determinants of growth and income inequality, volatile financial markets, and rapid urbanization. Analyzes country-specific experiences to evaluate stabilization, trade, regulation, poverty alleviation, and environmental policies.

*Prerequisite:* Economics 1010a or 1011a. Prior knowledge of economic development and international finance would be an advantage.

### **[Economics 1330. One Way or Many]**

Catalog Number: 7955

*Richard B. Freeman and Roberto Mangabeira Unger (Law School)*

*Half course (spring term). Hours to be arranged.*

Is the world gradually converging toward the same set of economic practices and institutions, following the lead of the North Atlantic industrial democracies? Or can democratic market economies take institutional forms radically different from those now established in the US and Western Europe? International financial instability has lent new urgency to the controversy over alternatives. The course considers these themes by exploring their variations in major post-communist or developing societies, as well as in North Atlantic countries.

*Note:* Expected to be given in 2006–07. Offered jointly with the Kennedy School as PED-259 and the Law School as 44160-31. Meets at the Law School.

*Prerequisite:* Social Analysis 10.

### **Economics 1335. Private Enterprise in the Developing World**

Catalog Number: 3697

*Raymond J. Fisman (Columbia University Business School)*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

This course provides a framework for studying the role of business in economic development. The first half focuses on the non-market constraints on private sector development that loom particularly large in the developing world. Topics include rule of law (contract enforcement, intellectual property rights, investor protection), corruption, and political instability. The latter



half examines the role of international institutions such as the WTO and IMF, and international capital flows, in promoting private sector development.

*Prerequisite:* Social Analysis 10 required. Some facility with data/statistics useful. Very basic knowledge of game theory helpful.

### **Economics 1340. Globalization and History**

Catalog Number: 4025 Enrollment: Limited to 80.

*Jeffrey G. Williamson*

*Half course (fall term). M., W., 1–2:30 and a weekly section to be arranged. EXAM GROUP: 6, 7*

Globalization after 1492: first globalization boom 1800-1914, autarkic retreat 1914-1950, second globalization boom since 1950. Uses history to explore sources and impact of world market integration, emerging global capital markets, and mass migrations. Does going global foster growth? Who gains and who loses? Why doesn't more capital flow to poor countries? Why don't more poor people migrate? Who votes for protection? Who votes for migration restriction?

*Note:* Concentrators may not take pass/fail.

*Prerequisite:* Social Analysis 10 or permission of the instructor.

### **[\*Economics 1357. Historical Perspectives on American Economic Ascendancy]**

Catalog Number: 7554 Enrollment: Limited to 60.

*Claudia Goldin*

*Half course (spring term). Hours to be arranged.*

Concerns America's economic ascendancy ever since c.1790. Addresses whether the US lost economic leadership post-WWII or others converged on it. Explores how the US achieved economic supremacy, including natural resources, legal institutions, labor, education, and invention. Confronts domestic issues accompanying economic growth such as inequality, regional divisions, slavery, big business, and economic vicissitudes such as the Great Depression, and evaluates solutions such as big government. Readings include novels.

*Note:* Expected to be given in 2006–07. Concentrators may not take pass/fail. A research paper is required.

*Prerequisite:* Social Analysis 10 or permission of the instructor.

### **[Economics 1375. Gender Issues in Economic Development]**

Catalog Number: 7348

*Erica M. Field*

*Half course (spring term). Hours to be arranged.*

Examines a range of economic issues related to gender in developing countries, with a focus on empirical methods and applied theory. We will analyze regional trends in women's education, labor force participation, wealth and political representation, and examine their theoretical and empirical relationship to economic growth and development. Specific topics include intra-household resource allocation; marriage markets and family structure; public policy and gender equity; and the implication of biological and psychological gender theories for economic behavior.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Economics 1010/1011



**[Economics 1385. Introduction to Global Health and Population]**

Catalog Number: 6193

*David Bloom (Public Health)*

*Half course (spring term). Hours to be arranged.*

Studies global health and population data in historical and comparative perspective. Discusses alternative frameworks and perspectives for understanding determinants and consequences of global disparities in health and population, and the place of health and population in the realm of international development. Covers approaches to the design, implementation, and evaluation of policies and programs to address health and population problems, including medical interventions, non-medical health interventions, and non-health interventions.

*Note:* Expected to be given in 2006–07. A research paper is required.

**\*Economics 1386. Health, Education, and Development**

Catalog Number: 6436 Enrollment: Limited to 20.

*Erica M. Field*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Advanced course addresses health and education issues in developing countries from the standpoint of economics, with a focus on modeling techniques and econometric methods.

General topics include demographic transition, household models of production, and the role of health and educational inputs. Specific topics include: the return to education in developing countries, structural problems in delivery, education finance, health inequality, technology adoption and behavior, AIDS, and the impact of disease.

*Note:* A research paper is required. Concentrators may not take pass/fail.

*Prerequisite:* Economics 1010a (or 1011a) and 1123 (or 1126).

**Economics 1393. Poverty and Development**

Catalog Number: 6516

*Beatriz Armendariz*

*Half course (spring term). M., W., 1–2:30 and a one-hour weekly section to be arranged. EXAM GROUP: 6, 7*

Studies the relationship between economic growth, poverty, and income distribution. Discusses how globalization affects poverty and inequality. Studies the main theories of economic growth and the main potential sources of economic development, from physical capital accumulation, to education, to technology, to the role of government. Discusses various global issues such as public global health (e.g., the impact of malaria and AIDS on Africa), corruption and institutions, natural resources, the environment, international donor institutions, and population growth.

*Prerequisite:* Economics 1010a (or 1011a) and 1010b (or 1011b).

***Primarily for Graduates***

**Economics 2325. World Development**

Catalog Number: 8510

*Jeffrey G. Williamson and James Robinson*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Uses economic history to explore development the world round over the past two centuries, from the British industrial revolution to the contemporary Third World. Takes examples from Europe,



Latin America, Asia, and North America.

*Note:* Satisfies the graduate distribution requirement.

### **Economics 2326. Selected Topics in Macroeconomic and Financial History**

Catalog Number: 3864

*Michael Bordo (Rutgers University)*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Topics in macroeconomic history emphasizing the international monetary and financial system from medieval money to early central bank and monetary policy; interwar instability and the gold exchange standard; the Great Depression; Bretton Woods; financial globalization; and financial crises.

*Note:* Course requirements: a major research paper; class presentations, and a take home final examination.

### **Economics 2327. Economic Development: Theory, Policy, and Evidence**

Catalog Number: 8092

*Dani Rodrik (Kennedy School) and Mark R. Rosenzweig (Kennedy School)*

*Half course (fall term). Tu., 8:15–11:30, and a review section F., 1–2:30 or 2:30–4. EXAM GROUP: 10, 11, 12, 13*

Provides a graduate-level overview of the theory of and evidence on economic development from a policy-oriented perspective. Aim is to allow students to analyze policy debates surrounding development from a broad and rigorous analytical base.

*Note:* Offered jointly with the Kennedy School as PED-101. First meeting: Tuesday, September 13 in Belfer, Starr Auditorium, KSG.

### **[Economics 2330. The Development of the American Economy]**

Catalog Number: 0123

*Claudia Goldin*

*Half course (spring term). Hours to be arranged.*

Covers topics in American economic history with an emphasis on the causes and consequences of economic growth from c. 1790. Explores the historical roots of current economic issues, such as productivity, technological change, inequality, female labor force, race, immigration, education, big government, and macroeconomic fluctuations.

*Note:* Expected to be given in 2006–07. Satisfies the graduate distribution requirement.

### **[Economics 2333. Historical Perspectives on Current Economic Issues]**

Catalog Number: 6800

*Claudia Goldin*

*Half course (fall term). Hours to be arranged.*

Comparative economic history emphasizing the sources of economic growth. Subjects include labor systems, population change, migration, technology, industrialization, market integration, education, government, inequality, and the Great Depression. Each topic is motivated by a current concern.

*Note:* Expected to be given in 2006–07. Satisfies the graduate distribution requirement.





**Economics 2335. The Industrial Sector in Developing Countries**

Catalog Number: 3876

*Matthias Schündeln*

*Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Microeconomics of industrial sector development, focusing on the specific institutional environment of developing countries. Topics include role of financial markets, labor markets, and new technologies in explaining individual firm behavior, productivity, market structure, industry dynamics.

**\*Economics 2339. The Economic History Workshop**

Catalog Number: 8183

*Jeffrey G. Williamson, Michael Bordo (Rutgers University) (spring term), John H. Coatsworth, and James Robinson*

*Full course. F., 2–4. EXAM GROUP: 7, 8*

Intended for students writing dissertations related to economic history themes and/or methodology and for others with interests in economic history. Discusses research papers presented by scholars at Harvard and elsewhere.

**Economics 2350. Workshop in Religion, Political Economy, and Society**

Catalog Number: 0815

*Robert J. Barro and members of the Department*

*Half course (fall term; repeated spring term). W., 12:30–2. First Meeting: Wed., Feb 8. EXAM GROUP: 5, 6*

Topics on the interplay between religion and the social sciences.

**Economics 2390b. Development Economics I: Microeconomic Issues**

Catalog Number: 2990

*Sendhil Mullainathan*

*Half course (fall term). M., W., 6–7:30 pm. EXAM GROUP: 9*

Topics include agricultural issues such as peasant behavior, land tenancy, interlinked markets; credit and insurance market problems and institutions; health, nutrition, and productivity; gender bias; education; and technology adoption.

*Note: First Meeting: Wednesday, September 21 in Littauer M16.*

**Economics 2390c. Development Economics II: Growth**

Catalog Number: 0388

*Philippe Aghion*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

Topics include innovation-based growth, innovations and capital accumulation, scale effects and convergence, exhaustible resources, learning-by-doing, growth and market structure, general purpose technologies, dynamics of wage inequality, and technical change and institutional change.

**Economics 2390d. The Economic Growth and Development Workshop**

Catalog Number: 1926

*Sendhil Mullainathan and members of the Department*



*Full course. Fall: Tu., 2:30–4; Spring: W., 2:30–4. EXAM GROUP: Fall: 16, 17; Spring: 7, 8*  
Fall speakers cover issues in growth and development. Spring speakers alternate between “growth and institutions,” focusing on the macro aspects of growth and development, and “labor and development,” focusing on the micro aspects.

### **Economics 2390e. Topics in Development Economics**

Catalog Number: 8744

*Sendhil Mullainathan and Erica M. Field*

*Half course (spring term). Tu., 8–10. EXAM GROUP: 10, 11*

An introduction to aspects of performing field work in development economics. Topics will vary. This course prepares students for field work through background readings, help in choice of field site, and teaching of empirical tools.

*Note:* Students are expected to spend the summer doing field work and writing a major research paper.

## ***Monetary and Fiscal Theory and Policy; Public Sector Economics***

### ***For Undergraduates and Graduates***

### **Economics 1410. Public Sector Economics**

Catalog Number: 6136

*Caroline M. Hoxby, David M. Cutler, Mihir A. Desai (Business School), and Martin Feldstein*

*Half course (spring term). M., W., F., at 9, and a one-hour weekly section to be arranged. EXAM GROUP: 2*

An economic analysis of taxation and government spending. Fundamental principles of taxation are developed and applied to current issues of tax policy. Discussion of government spending focuses on issues of health, education, and social security.

*Note:* Offered jointly with the Kennedy School as API-125.

*Prerequisite:* Economics 1010a or 1011a or permission of instructor.

### **Economics 1420. American Economic Policy**

Catalog Number: 8110

*Martin Feldstein and Jeffrey B. Liebman (Kennedy School)*

*Half course (spring term). M., W., F., at 10, and a one-hour weekly section to be arranged.*

*EXAM GROUP: 3*

Analyzes major issues in American economic policy including taxation, Social Security, welfare reform, budget policy, monetary and fiscal policy, and exchange rate management. Current economic issues and policy options discussed in detail and in the context of current academic thinking.

*Note:* Offered jointly with the Kennedy School as API-126.

*Prerequisite:* Economics 1010a or 1011a, or permission of instructor.

### **[Economics 1430. Macroeconomics and Politics]**

Catalog Number: 5549

*Robert J. Barro*

*Half course (spring term). Hours to be arranged.*



Topics include the political economy of economic growth, including the roles of democracy and legal institutions; inflation, monetary policy, and fiscal policy; interplay between religion and political economy; and analyses of economic and monetary unions.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Economics 1010b or 1011b, or permission of the instructor.

### **Economics 1471. Economics of Crime**

Catalog Number: 6848 Enrollment: Limited to 80.

*Jeffrey A. Miron*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly section to be arranged. EXAM GROUP: 12, 13*

Presents the economic model of crime and assesses the evidence that evaluates this model.

Specific topics include the roles of guns, drugs, abortion, the death penalty, and criminal justice policies in determining crime.

*Prerequisite:* Social Analysis 10 and Statistics 100 (or equivalent).

### **Economics 1480. Moral Perspectives on Economic Growth**

Catalog Number: 3441 Enrollment: Limited to 20.

*Benjamin M. Friedman*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Considers economic growth and policies that either promote or impede economic growth, from a social and moral perspective. Focuses on ways in which moral ideas, including religious ideas, have influenced economic thinking, and vice versa. Approaches include economic, historical, and literary analyses.

*Prerequisite:* Economics 1010a (or 1011a) and 1010b (or 1011b).

### ***Cross-listed Courses***

### **Quantitative Reasoning 24. Health Economics and Policy**

#### ***Primarily for Graduates***

#### **[Economics 2410d. Aggregate Implications of Household and Firm Behavior]**

Catalog Number: 9772

*Nicola C. Fuchs-Schündeln*

*Half course (spring term). Hours to be arranged.*

Deals with microeconomic foundations of macroeconomics. Covers a variety of topics, including consumption, wealth holdings, investment, and unemployment. Studies theory as well as empirical evidence.

*Note:* Expected to be given in 2006–07.

#### **[Economics 2410e. Economic Growth]**

Catalog Number: 0681

*Philippe Aghion*

*Half course (spring term). Hours to be arranged.*

Covers a variety of advanced topics in economic growth and development, including the roles of



factor accumulation, differences in productivity, technology adoption and technology diffusion, institutions and politics, culture and social capital.

*Note:* Expected to be given in 2006–07.

**Economics 2410f. Advanced Topics in Closed and Open Economy Macroeconomics**

Catalog Number: 3832

*Nicola C. Fuchs-Schündeln, Manuel Amador, and Doireann M. Fitzgerald (University of California, Santa Cruz)*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Theory and empirics of microeconomic foundations of closed economy macroeconomics with incomplete markets. Further studies the importance of frictions in asset and good markets in explaining a variety of open economy macro puzzles.

**[Economics 2410g. Political Economics]**

Catalog Number: 6758

*James Robinson and Andrei Shleifer*

*Half course (spring term). Hours to be arranged.*

Discusses several research areas in political economy, including the origins of the state, comparative political systems, theories of economic reform, fiscal problems in democracies, rule of law, privatization, regulation, and elections and the economy.

*Note:* Expected to be given in 2006–07.

**Economics 2415. Theory of Optimal Policy**

Catalog Number: 2855

*Aleh Tsyvinski*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Theory of optimal taxation including static and dynamic models; taxation; Ramsey and Mirrlees approaches; theory of social insurance. Macroeconomic approach to optimal policy includes fiscal and monetary policy over time and business cycles. Time-consistency problems will be covered.

**Economics 2420. Monetary and Fiscal Policy Seminar**

Catalog Number: 5946

*Aleh Tsyvinski, Philippe Aghion, Alberto F. Alesina, Robert J. Barro (fall term), Benjamin M. Friedman, and members of the Department*

*Full course. M., 2–4. EXAM GROUP: 7, 8*

Seminar speakers present papers on macroeconomic topics, including issues relating to monetary and fiscal policies, economic growth, the role of institutions, and other research issues in the field.

**[Economics 2435. Growth and Institutions Workshop]**

Catalog Number: 0382

*Philippe Aghion, Robert J. Barro, and Dani Rodrik (Kennedy School)*

*Half course (spring term). Hours to be arranged.*

Effects of organizations and institutions on macroeconomic performance, with a particular focus on the interplay among institutions, technical change, and economic growth.



*Note:* Expected to be given in 2006–07. Students should attend Economics 2420, which will include topics on growth.

**Economics 2450a. Public Economics and Fiscal Policy I**

Catalog Number: 1339

*Caroline M. Hoxby and Leora R. Friedberg (University of Virginia)*

*Half course (fall term). M., W., (F.), 11:30–1. EXAM GROUP: 4, 5*

Surveys theoretical and empirical analyses of taxation and government expenditures. Topics include tax incidence, optimal tax theory, public goods and externalities, and empirical analysis of responses to taxation.

**Economics 2450b. Public Economics and Fiscal Policy II**

Catalog Number: 6478

*David M. Cutler and Martin Feldstein*

*Half course (spring term). M., W., (F.), 11:30–1. EXAM GROUP: 4, 5*

Surveys theoretical and empirical analyses of taxation and government expenditures. Special topics include taxes and corporate finance, social insurance and fiscal policy, including social security and health care.

**Economics 2460. Health Economics Workshop**

Catalog Number: 7617

*David M. Cutler, Erica M. Field, and Joseph P. Newhouse (Kennedy School, Medical School, Public Health)*

*Half course (spring term). Tu., 8–10. EXAM GROUP: 10, 11*

Focuses on theory, econometric models, and public policy of health care. Frontier work in health economics presented and discussed by instructors and outside speakers.

*Note:* May be taken for credit only by dissertation students writing a research paper. Offered jointly with the Kennedy School as HCP-581.

**Economics 2480. The Public Economics and Fiscal Policy Workshop**

Catalog Number: 6834

*Caroline M. Hoxby, David M. Cutler, and Martin Feldstein*

*Full course. M., 4–6. EXAM GROUP: 9*

Focuses on current issues in the theory and practice of public finance, including both tax and expenditure policies.

**\*Economics 2490. The Economics of National Security Seminar**

Catalog Number: 9061

*Martin Feldstein*

*Half course (spring term). Tu., 6:30–9 p.m. EXAM GROUP: 18*

Considers a range of issues relating to national security, including bioterrorism, the market for nuclear weapons, the defense industry, the dependence on imported oil, intelligence, sanctions, etc.

*Note:* Speakers will be both experts with experience in this field and economists doing research on these issues. Seminar participants will be economics department faculty and selected graduate students.



## ***International Economics***

### ***For Undergraduates and Graduates***

#### **Economics 1530. International Monetary Economics**

Catalog Number: 2269

*Richard N. Cooper*

*Half course (spring term). M., W., F., at 11;. EXAM GROUP: 4*

The theory of exchange rate determination, capital markets, and macroeconomic policy in the open economy. Applications to such issues as the history of international monetary regimes, international policy coordination, debt crises, and the formation of currency unions.

*Prerequisite:* Social Analysis 10.

#### **Economics 1535. International Trade and Investment**

Catalog Number: 2557 Enrollment: Limited to 30.

*Doireann M. Fitzgerald (University of California, Santa Cruz)*

*Half course (fall term). M., W., 1–2:30 and a one-hour weekly section to be arranged. EXAM GROUP: 6, 7*

Analyzes the causes and consequences of international trade and investment. Focuses on the interplay of economic theory and empirical descriptions of foreign trade and direct investment patterns.

*Prerequisite:* Economics 1010a or 1011a.

#### **Economics 1540. Topics in International Trade**

Catalog Number: 7470

*Pol Antràs*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Covers advanced topics in international economics with a special emphasis on an analytical approach to the recent process of globalization. Topics include the effect of international outsourcing on wages, trade and industrial development, and the role of multinational firms in the global economy.

*Prerequisite:* Economics 1535 and knowledge of calculus.

#### **Economics 1542. International Trade Policy**

Catalog Number: 2613

*Elhanan Helpman*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Provides a discussion of international trade policies. Begins by reviewing the theory of trade and trade policy in both competitive and non-competitive environments, and proceeds to political economy of trade policy formation. The course requires knowledge of calculus and the ability to deal with analytical methods.

*Prerequisite:* Economics 1010a or 1011a, or permission of instructor.

#### **Economics 1545. International Financial and Macroeconomic Policy**

Catalog Number: 5166 Enrollment: Limited to 30.

*Gita Gopinath and Kenneth Rogoff*



*Half course (spring term). M., W., 1–2:30 and a one-hour weekly section to be arranged. EXAM GROUP: 6, 7*

Advanced theoretical and empirical analysis of contemporary international macroeconomic policy issues in both industrialized and developing economies. Topics include exchange rates, international capital flows, debt crises, growth, and policy coordination.

*Prerequisite:* Economics 1010b or 1011b.

***Primarily for Graduates***

**Economics 2530a. International Trade**

Catalog Number: 4537

*Elhanan Helpman*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Provides a broad overview of theory and evidence concerning international trade, direct foreign investment, and trade policy.

*Note:* Strongly recommended as preparation for Economics 2530b.

**Economics 2530b. International Finance**

Catalog Number: 7144

*Gita Gopinath and Kenneth Rogoff*

*Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Financial aspects of growth and income determination in open economies. Topics include international business cycle, monetary and exchange rate regimes, capital flows, and current issues in international macroeconomic policy.

*Prerequisite:* Economics 2530a provides extremely useful background.

**Economics 2535. Advanced Topics in International Trade**

Catalog Number: 6410

*Pol Antràs*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Covers advanced theoretical and empirical topics concerning the determinants of world trade patterns.

*Prerequisite:* Economics 2530a or permission of instructor.

**Economics 2537. International Trade Policy: Issues and Analysis**

Catalog Number: 1699

*Dani Rodrik (Kennedy School)*

*Half course (fall term). M., W., (F.), 2:30–4. EXAM GROUP: 7, 8*

Develops expertise with economic models used for the analysis of international trade policies. Focuses on theoretical and empirical work relating to trade patterns, income distribution, growth, development, industrial policy, political economy, and the WTO.

*Note:* Students are expected to make presentations and write a research paper. Offered jointly with the Kennedy School as ITF-345. First Meeting: Wednesday, September 14 in Littauer 332, KSG.

*Prerequisite:* Graduate level microeconomics and econometrics.





**Economics 2540. The International Economics Workshop**

Catalog Number: 4008

*Elhanan Helpman (fall term), Kenneth Rogoff (spring term), and members of the Department*  
Full course. W., 4–6. EXAM GROUP: 9

Research papers in all aspects of international economics, including theory, econometrics, and policy.

***Industrial Organization and Regulation; Environmental Economics***

***For Undergraduates and Graduates***

**Economics 1625. Economics of E-Commerce**

Catalog Number: 3737 Enrollment: Limited to 20.

*Joseph E. Harrington (Johns Hopkins University)*

Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7

Examines how on-line markets function. We want to identify their unique features and try to understand their implications for competition and welfare. Questions include: How does the form and intensity of competition differ between on-line markets and conventional markets? How has on-line markets affected search? How do on-line auctions function and what determines their outcomes? What are the forces determining market dynamics? Is there a first-mover advantage? What is the role and source of technological innovation?

*Note:* Course format will be a blend of lecture and roundtable discussion.

*Prerequisite:* Economics 1010a or 1011a.

**Economics 1640. Industrial Organization: Theory and Applications**

Catalog Number: 7875 Enrollment: Limited to 30.

*Ulrich Doraszelski*

Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11

Theoretical and empirical analysis of contemporary topics in industrial organization. Uses economic theory to analyze important issues facing firms, and examines the practical challenges of empirical applications of theory. Topics include horizontal relationships and mergers, vertical integration and control through contractual arrangements, price discrimination, information and search costs, innovation and intellectual property rights, and network externalities. Each topic combines theoretical analysis with a study of actual firm behavior.

*Prerequisite:* Economics 1010a or 1011a.

**Economics 1661. Environmental and Resource Economics and Policy**

Catalog Number: 2115

*Robert N. Stavins (Kennedy School)*

Half course (spring term). Tu., Th., 1–2:30 with optional review section F., 1–2:30. EXAM GROUP: 15, 16

Provides a survey, from the perspective of economics, of environmental and natural resource policy. Combines lectures on conceptual and methodological topics with examinations of public policy issues. Topics include principles of environmental and resource economics, nonrenewable resources (minerals and energy), renewable resources (water, forests, land, fisheries), air pollution (stationary and mobile sources, acid rain, and global climate change), water pollution



(point and nonpoint sources), waste management, and sustainable development and political aspects of environmental policy.

*Note:* Expected to be omitted in 2006–07. Offered jointly with the Kennedy School as ENR-201.

*Prerequisite:* Social Analysis 10 or permission of instructor.

***Primarily for Graduates***

**Economics 2610. Industrial Organization I**

Catalog Number: 3766

*Julie H. Mortimer and Susan Athey (Stanford University)*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Applied work in industrial organization. Static analysis (theory, estimation): demand systems, cost functions, and game theoretic concepts of equilibrium and their application. Dynamic analysis (theory, computation, estimation): single agent problems, dynamic games and their application.

**Economics 2611. Industrial Organization II**

Catalog Number: 2302

*Joseph E. Harrington (Johns Hopkins University)*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Application of industrial organization to problems of public policy. Applied analysis of antitrust policy, network industries, vertical relationships, auctions, and other topics depending on interest.

*Note:* Students are urged to take Economics 2610 before Economics 2611.

**\*Economics 2640hf. The Industrial Organization Workshop**

Catalog Number: 5981

*Julie H. Mortimer, Susan Athey (Stanford University), and Joseph E. Harrington (Johns Hopkins University) (fall term); Ulrich Doraszelski and Joseph E. Harrington (Johns Hopkins University) (spring term)*

*Half course (throughout the year). M., 2:30–4. EXAM GROUP: 7, 8*

**Economics 2665. The Economics of Organizations Workshop**

Catalog Number: 9819

*Oliver S. Hart and George P. Baker (Business School)*

*Half course (fall term; repeated spring term). Th., 2:30–4. EXAM GROUP: 16, 17*

*Note:* Offered jointly with the Business School as 4230.

**Economics 2670. Organizational Economics**

Catalog Number: 6913

*Oliver S. Hart and George P. Baker (Business School)*

*Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Theoretical and empirical work on organizations. Topics include agency problems inside organizations, boundaries of the firm, relational contracting, authority, hierarchies, delegation, decentralization, and nonstandard organizational arrangements (including joint ventures, venture capital, and public ownership).



*Note:* Offered jointly with the Business School as 4180.

*Prerequisite:* Economics 2020.

### **Economics 2680. Environmental and Natural Resource Economics**

Catalog Number: 6529

*Martin L. Weitzman*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Basic theory and models, including externalities, common property, instruments for controlling pollution. Applications of optimal control theory to renewable and non-renewable resources.

Analysis of cost-benefit, discounting, uncertainty, environmental accounting, “sustainability,” and biodiversity preservation.

*Prerequisite:* Graduate price theory at level of 2010 or 2020.

### **\*Economics 2690hf. Environmental Economics and Policy Seminar**

Catalog Number: 4324

*Robert N. Stavins (Kennedy School) and Martin L. Weitzman*

*Half course (throughout the year). W., 4–5:30. EXAM GROUP: 9*

Selected topics in environmental and resource economics. Emphasizes theoretical models, quantitative empirical analysis, and public policy applications. Includes invited outside speakers.

*Note:* Primarily for graduate students in economics or related fields with environmental interests.

Offered jointly with the Kennedy School as ENR-551y. First Meeting: Wednesday, September 14 in Littauer 332, KSG.

*Prerequisite:* Graduate-level course in microeconomic theory.

## ***Financial Economics***

### ***For Undergraduates and Graduates***

### **Economics 1723. Capital Markets**

Catalog Number: 1917

*John Y. Campbell*

*Half course (fall term). Tu., Th., 10–11:30, and a one-hour weekly section to be arranged.*

*EXAM GROUP: 12, 13*

An introduction to the economic analysis of investment decisions and financial markets.

Concepts include time discounting, market efficiency, risk, and arbitrage. These concepts are applied to fixed-income securities, equities, and derivative securities.

*Prerequisite:* Mathematics 20 and Economics 1010a or 1011a.

### **[Economics 1733. Topics in Investment Management]**

Catalog Number: 6748

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*Half course (fall term). Hours to be arranged.*

Presents theory and empirical evidence on selected questions in financial economics, with an emphasis on recent empirical research on investment strategies. Focuses on the application of these ideas to investment management. Topics include behavioral finance and market efficiency, patterns in asset prices, and portfolio construction.



*Note:* Expected to be given in 2006–07.

*Prerequisite:* Economics 1723; or Economics 1745; or both Social Analysis 10 and permission of the instructor.

### **Economics 1745. Corporate Finance**

Catalog Number: 5889

*Efraim Benmelech*

*Half course (spring term). M., W., 1–2:30, and a one-hour weekly section to be arranged. EXAM GROUP: 6, 7*

Introduction to corporate finance, including capital budgeting, capital structure of firms, dividend policy, corporate governance, and takeovers.

*Prerequisite:* Economics 1010a or 1011a.

### **Economics 1750. Canadian Financial History**

Catalog Number: 4044

*Randall Morck (University of Alberta)*

*Half course (fall term). M., 2–3:30 and M., 4–6. EXAM GROUP: 7, 8*

The development of the Canadian economy from New France to the present is used to illustrate the interaction between different schools of economic thought and actual details of economic history. This rich history of economic growth amid scandals and corruption is especially useful in interpreting theories of financial, institutional, and economic development.

*Note:* If taken for credit, students must also attend the Canada Seminar, held Mondays 4–6, at the Weatherhead Center for International Affairs.

*Prerequisite:* Social Analysis 10.

### **Economics 1760. Topics in Financial Economics**

Catalog Number: 4594

*Jeremy C. Stein*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Theory and empirical evidence on selected questions in financial economics, with an emphasis on current research. Topics include behavioral finance, market efficiency, and corporate investment and financing decisions.

*Prerequisite:* Economics 1723.

### ***Primarily For Graduates***

### **Economics 2723. Asset Pricing I**

Catalog Number: 2847

*John Y. Campbell*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to financial economics emphasizing discrete-time models and empirical applications. Reviews basic asset pricing theory. Discusses empirical topics including predictability of stock and bond returns, the equity premium puzzle, and intertemporal equilibrium models.

*Note:* Offered jointly with the Business School as 4209.

*Prerequisite:* Economics 2010a or 2020a, or permission of instructor.



**Economics 2724 (formerly Economics 2424). Finance Theory in Continuous Time**

Catalog Number: 2614

*Robert C. Merton (Business School)*

*Half course (spring term). Tu., 2–5. EXAM GROUP: 16, 17, 18*

Synthesis of finance theory from the perspective of continuous-time analysis covering individual financial behavior, financial markets and intermediaries, corporate finance, governmental and macro finance in an uncertain environment.

*Note:* Offered jointly with the Business School as 4256. For more information, visit [www.hbs.edu/doctoral/registrar/course.html](http://www.hbs.edu/doctoral/registrar/course.html).

*Prerequisite:* At least one finance course including capital markets; elementary probability and statistics; multi-variate calculus; matrix algebra.

**Economics 2725. Corporate Finance**

Catalog Number: 1427

*Jeremy C. Stein and David S. Scharfstein (Business School)*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Theory and empirical evidence of capital structure, dividends, investment policy, managerial incentives, and takeovers. Topics include market efficiency, agency problems, and ownership.

*Note:* Offered jointly with the Business School as 4220.

*Prerequisite:* Economics 2060.

**[Economics 2727. Topics in Empirical Corporate Finance]**

Catalog Number: 9055

*Paul Gompers (Business School) and Joshua Lerner (Business School)*

*Half course (spring term). Hours to be arranged.*

Examines empirical research in corporate finance. Covers empirical research methodology, financial institutions, and financial policy. Major emphasis is on how to do well-executed and persuasive research in corporate finance.

*Note:* Expected to be given in 2006–07. Offered jointly with the Business School as 4220.

Structured to minimize overlap with Economics 2725. Seminar format; students write referee reports and a research paper.

**Economics 2728. Behavioral Finance**

Catalog Number: 8633

*Jeremy C. Stein*

*Half course (spring term). W., 1–2:30. EXAM GROUP: 6, 7*

Deals with theoretical and empirical approaches to the study of financial markets using psychological or behavioral ideas. Topics include limited arbitrage, predictability of security returns, and trading volume.

*Prerequisite:* Economics 2723.

**[Economics 2730. Asset Pricing II]**

Catalog Number: 2235

*Luis Manuel Viceira (Business School), George Carl Chacko (Business School), and Randolph B. Cohen (Business School)*

*Half course (spring term). Hours to be arranged.*



Emphasis of course is both theoretical and empirical. First part of course develops continuous-time asset pricing models, and their estimation. Second part discusses empirical research on cross-sectional patterns in stock returns.

*Note:* Expected to be given in 2006–07. Offered jointly with the Business School as 4210.

*Prerequisite:* Graduate-level microeconomics, macroeconomics, and econometrics; Economics 2723 or equivalent.

**\*Economics 2770hf. The Financial Economics Workshop**

Catalog Number: 1379

*Jeremy C. Stein, Efraim Benmelech, John Y. Campbell, and Randall Morck (University of Alberta) (fall term)*

*Half course (throughout the year). M., 4–5:30. EXAM GROUP: 9*

***Cross-Listed Courses***

**Business Studies 2330. Theoretical and Empirical Perspectives on Entrepreneurship**

***Labor, Human Resources, and Income Distribution; Urban Economics***

***For Undergraduates and Graduates***

**Economics 1812. The US Labor Market**

Catalog Number: 0421

*James L. Medoff*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

Presents the tools employed in research on the operation of the labor market and then uses them to discuss issues such as the determinants of earnings differentials, the impact of various firm characteristics on labor-market outcomes, discrimination, and unemployment.

*Prerequisite:* Economics 1010a (or 1011a) and Economics 1010b (or 1011b).

**Economics 1813. The Indebted Society**

Catalog Number: 6957

*James L. Medoff*

*Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3*

First charts trends in personal, corporate, and government indebtedness in the US, then discusses the impact of each change on societal well-being. Finally, asks about public policy concerning the various forms of US debt.

*Prerequisite:* Economics 1010a (or 1011a) and Economics 1010b (or 1011b).

**[Economics 1815. Social Problems of the American Economy]**

Catalog Number: 3130

*Lawrence F. Katz*

*Half course (fall term). Hours to be arranged.*

Examines selected social and economic problems of the US and evaluates market and governmental solutions. Topics include discrimination, income and wage inequality, welfare reform, antipoverty strategy (including education and training programs), homelessness, crime,



and charitable behavior.

*Note:* Expected to be given in 2006–07. A research paper is required.

*Prerequisite:* Social Analysis 10 or permission of the instructor.

### **[Economics 1818. Economics of Discontinuous Change]**

Catalog Number: 3029

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*Half course (spring term). Hours to be arranged.*

Explores discontinuous changes in the economic position of groups and countries and presents mathematical and computer simulation models designed to illuminate these changes. Examples include growth/decline of trade unions, segregation of groups, development of linkages on the internet, changes in corporate work culture, growth of social pathologies in neighborhoods, and Malthusian concerns about the environment. Models include nonlinear simulations, neural networks, finite automata, evolutionary stable strategies, causal conjunctures, agent-based simulations, and genetic algorithms.

*Note:* Expected to be given in 2006–07. A research paper is required. Students should have some mathematical background, but there is no prerequisite.

### **Economics 1822. Economics of Education**

Catalog Number: 1004 Enrollment: Limited to 40.

*Caroline M. Hoxby*

*Half course (fall term). M., W., 2–3:30; and a one-hour weekly section to be arranged. EXAM GROUP: 7, 8*

Explores why people attain different levels of education, what makes schools efficient, how schools should be financed, what explains rising college tuition, whether education propels macroeconomic growth. Uses labor economics (human capital investment, the market for teachers), public economics (financing K-12 education, public colleges), industrial organization (vouchers, charter schools, market for college education), macroeconomics (growth theory).

*Note:* A research paper is required of most students, which makes this a good course for those considering honors theses.

*Prerequisite:* Economics 1010a or 1011a, or permission of the instructor.

### ***Primarily for Graduates***

### **Economics 2810a. Labor Market Analysis**

Catalog Number: 4862

*Caroline M. Hoxby*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Theoretical and empirical research on labor markets. Wage determination covers equalizing differences, human capital, job mobility, and incentive models. Labor supply covers life-cycle models. Labor demand includes minimum wage and union models.

### **Economics 2810b. Labor Economics and Labor Market Institutions**

Catalog Number: 3206

*Rajeev H. Dehejia (Columbia University)*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*





Examines the operation of the labor market and evaluation of labor market policies. Topics: labor econometrics, theories of wage determination, changes in the wage structure, unemployment, labor market institutions, social mobility, and social interactions.

**Economics 2812. The Labor Economics Workshop**

Catalog Number: 0230

*Caroline M. Hoxby*

*Full course. W., 4–5:30. EXAM GROUP: 9*

Focuses on research concerning the operation of labor markets.

**\*Economics 2813. Labor and Work Life Forum**

Catalog Number: 1415

*Paul C. Weiler (Law School)*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Research and discussion with trade union leaders and management concerning labor issues.

***Graduate Courses of Reading and Research***

**\*Economics 3000. Research Paper**

Catalog Number: 4174

*Members of the Department*

Intended to fulfill the Research Paper Requirement for the PhD degree in Economics. Ordinarily, this course is taken during the spring term of the second year of graduate study.

**\*Economics 3005. Reading and Research**

Catalog Number: 3493

*Members of the Department*

Individual work or work in small groups (with a professor or lecturer in residence) in preparation for the general examination for the PhD degree, or work on special topics not included in course offerings.

**\*Economics 3010. Direction of Doctoral Dissertations**

Catalog Number: 4579

*Members of the Department*

*Note:* In all cases, the thesis topic must have been formally submitted to, and approved by, a thesis advisor.

**\*Economics 3011. Research in Behavior in Games and Markets**

Catalog Number: 0109

*Attila Ambrus 4665, Drew Fudenberg 3460, Jerry R. Green 1539, David I. Laibson 1241 (on leave spring term), Markus M. Möbius 3441, and Alvin E. Roth 564*

*Half course (fall term; repeated spring term). W., 11:30–1.*

Serves mainly as a forum for presentations by graduate students of their current research. Work presented can be very preliminary and conjectural.

*Prerequisite:* Economics 2010a (or 2020a) and 2010b (or 2020b).



**\*Economics 3030hf. Psychology and Economics in the Field**

Catalog Number: 3877

*Sendhil Mullainathan 5139 and Nava Ashraf (Business School) 5317*

*Half course (throughout the year). Fall: M., at 1:30; Spring: M., at 12.*

Participants present empirical applications of economics and psychology. Most topics will be proposed designs of field experiments.

*Note:* Open to doctoral students only.

**\*Economics 3163hf. Research in Econometrics**

Catalog Number: 4392

*Dale W. Jorgenson 2000 (on leave fall term), Gary Chamberlain 1745, Rustam Ibragimov 5329, Marcelo J. Moreira 4365 (on leave spring term), James H. Stock 1783 (on leave spring term), and Samuel B. Thompson 3406 (on leave 2005-06)*

*Half course (throughout the year). M., 12–2.*

Participants discuss recent research in econometrics and present their own work in progress.

Open to doctoral students in economics.

**\*Economics 3336hf. Research in Economic History**

Catalog Number: 0639

*Jeffrey G. Williamson 7680, Michael Bordo (Rutgers University) 5308 (spring term only), and Claudia Goldin 2667 (on leave 2005-06)*

*Half course (throughout the year). M., 4–5:30.*

Participants discuss recent research in economic history and present their own work in progress.

*Note:* Primarily, but not exclusively, for doctoral students in economics who have passed their oral examinations.

**\*Economics 3390hf. Research in Economic Development**

Catalog Number: 2532

*Michael R. Kremer 2112 (on leave 2005-06), Erica M. Field 5095, Robert T. Jensen (Kennedy School) 4548, Asim I. Khwaja (Kennedy School) 3994, Dwight H. Perkins 2300 (on leave fall term), Mark R. Rosenzweig (Kennedy School) 4595, and Jeffrey G. Williamson 7680*

*Half course (throughout the year). W., at 1.*

Participants discuss recent research in development economics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

**\*Economics 3410dhf. Research in Macroeconomics**

Catalog Number: 2126

*Alberto F. Alesina 2074, Robert J. Barro 1612 (on leave spring term), and David I. Laibson 1241 (on leave spring term)*

*Half course (throughout the year). Tu., 12–1:30.*

Participants discuss recent research in macroeconomics and present their own work in progress.

Open to doctoral students in economics who have passed their oral examinations.

**\*Economics 3450chf. Research in Public Economics and Fiscal Policy**

Catalog Number: 3436

*David M. Cutler 2954, Edward L. Glaeser 3219, Caroline M. Hoxby 1235, and Lawrence F.*



*Katz 1480 (on leave 2005-06)*

*Half course (throughout the year). Th., 1–2:30.*

Participants discuss recent research in public economics and fiscal policy and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

**\*Economics 3460chf. Research in Health Economics**

Catalog Number: 5309

*Joseph P. Newhouse (Kennedy School, Medical School, Public Health) 2425*

*Half course (throughout the year). Hours to be arranged.*

Participants discuss recent research in health economics. Course may also include presentation of original research by participants. Open to doctoral students only.

**\*Economics 3530hf. Research in International Economics**

Catalog Number: 5777

*Manuel Amador 5309, Pol Antràs 4666, Richard N. Cooper 7211, Gita Gopinath 5042, Elhanan Helpman 2334, Marc J. Melitz 3499 (on leave 2005-06), and Kenneth Rogoff 1746*

*Half course (throughout the year). W., at 12.*

Participants discuss recent research in international economics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

**\*Economics 3650hf. Research in Industrial Organization**

Catalog Number: 3318

*Susan Athey (Stanford University) 5334 (fall term only), Richard E. Caves 1414, Ulrich Doraszelski 5024, Joseph E. Harrington (Johns Hopkins University) 5335, Julie H. Mortimer 3993, and Ariel Pakes 1774 (on leave 2005-06)*

*Half course (throughout the year). W., 2:30–4.*

Participants present their own research in progress in an informal setting. Open to doctoral students in economics who have passed their general examinations and are in the early stages of their dissertations.

**\*Economics 3660hf. The Law, Economics, and Organizations Workshop**

Catalog Number: 4325

*Lucian Arye Bebchuk (Law School) 2042, Oliver S. Hart 3462, Louis E. Kaplow (Law School) 3223, and Joshua Lerner (Business School) 1601*

*Half course (throughout the year). M., 12:30–2.*

The presentation of work in progress in the field of law, economics, and organizations. Presentations by members of the various Harvard faculties, outside speakers, and graduate students.

*Note:* Offered jointly with the Law School as 96250-11 and the Business School as 4670.

**\*Economics 3680hf. Research in Environmental Economics**

Catalog Number: 1227

*Robert N. Stavins (Kennedy School) 2093*

*Half course (throughout the year). F., at 12.*

Participants discuss recent research in environmental and natural resource economics and present



their own work in progress.

*Note:* Open to doctoral students only.

**\*Economics 3723hf. Research in Financial Economics**

Catalog Number: 4107

*George Carl Chacko (Business School) 3175, Randall Morck (University of Alberta) 2742 (fall term only), Jeremy C. Stein 3752, and Luis Manuel Viceira (Business School) 3183*

*Half course (throughout the year). F., 12–1:30.*

Participants discuss recent research in financial economics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

*Note:* Offered jointly with the Business School as 4601.

**\*Economics 3810chf. Research in Labor Economics**

Catalog Number: 4066

*Claudia Goldin 2667 (on leave 2005-06), Caroline M. Hoxby 1235, and Lawrence F. Katz 1480 (on leave 2005-06)*

*Half course (throughout the year). Th., 1–2:30.*

Participants discuss recent research in labor economics and present their own work in progress.

Open to doctoral students in economics who have passed their oral examinations.

## Engineering Sciences

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Division of Engineering and Applied Sciences Offering Instruction in Engineering Sciences***

Frederick H. Abernathy, Gordon McKay Professor of Mechanical Engineering and Abbott and James Lawrence Professor of Engineering (*on leave fall term*)

Armand Ajdari, Visiting Lecturer on Engineering Sciences

Silas D. Alben, Lecturer on Applied Mathematics

Ron N. Alkalay, Lecturer on Engineering Sciences (*fall term only*)

Donald G. M. Anderson, Gordon McKay Professor of Applied Mathematics

Michael J. Aziz, Gordon McKay Professor of Materials Science

Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science (*on leave fall term*)

Federico Capasso, Robert L. Wallace Professor of Applied Physics (*on leave spring term*)

Kenneth B. Crozier, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment

Marie D. Dahleh, Lecturer on Engineering Sciences (*Assistant Director of Undergraduate*



*Studies)*

Cornelia Dean, Visiting Lecturer on Engineering Sciences  
David A. Edwards, Gordon McKay Professor of the Practice of Biomedical Engineering  
Thomas C. Esselman, Lecturer on Engineering Sciences (*fall term only*)  
Brian F. Farrell, Robert P. Burden Professor of Meteorology  
Daniel S. Fisher, Professor of Physics and Professor of Applied Physics  
Donhee Ham, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
Joseph J. Harrington, Gordon McKay Professor of Environmental Engineering (*FAS*) and Professor of Environmental Health Engineering (*Public Health*)  
Paul Horowitz, Professor of Physics and of Electrical Engineering  
Robert D. Howe, Gordon McKay Professor of Engineering  
John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics  
Daniel J. Jacob, Vasco McCoy Family Professor of Atmospheric Chemistry and Environmental Engineering  
Aleksandar Kavcic, John L. Loeb Associate Professor of the Natural Sciences (*on leave 2005-06*)  
Navin Khaneja, Associate Professor of Electrical Engineering on the Gordon McKay Endowment  
Zhiming Kuang, Assistant Professor of Climate Science  
H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering  
Hoe I. Ling, Visiting Associate Professor of Engineering and Applied Sciences (*Columbia University*)  
L. Mahadevan, Gordon McKay Professor of Applied Mathematics and Mechanics  
Scot T. Martin, Gordon McKay Professor of Environmental Chemistry (*Director of Undergraduate Studies*)  
Ralph Mitchell, Gordon McKay Professor of Applied Biology  
David J. Mooney, Gordon McKay Professor of Bioengineering  
Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences, Professor of Physics, Dean of the Division of Engineering and Applied Sciences and Dean for the Physical Sciences  
Kevin K. Parker, Assistant Professor of Biomedical Engineering on the Gordon McKay Endowment  
James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics  
Peter P. Rogers, Gordon McKay Professor of Environmental Engineering  
Maurice A. Smith, Assistant Professor of Bioengineering on the Gordon McKay Endowment  
Sumeeta Srinivasan, Lecturer on Engineering Sciences (*spring term only*)  
Garrett B. Stanley, Associate Professor of Biomedical Engineering on the Gordon McKay Endowment  
Howard A. Stone, Vicky Joseph Professor of Engineering and Applied Mathematics  
Zhigang Suo, Gordon McKay Professor of Mechanics and Materials (*on leave fall term*)  
Vahid Tarokh, Perkins Professor of Applied Mathematics  
Sandip Tiwari, Visiting Professor of Electrical Engineering (*Cornell University*)  
Ashkan Vaziri, Lecturer on Engineering Sciences (*fall term only*)  
Joost J. Vlassak, Associate Professor of Materials Engineering on the Gordon McKay Endowment



Gu-Yeon Wei, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics  
Steven C. Wofsy, Abbott Lawrence Rotch Professor of Atmospheric and Environmental Science  
Patrick J. Wolfe, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
Robert J. Wood, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science  
Todd Zickler, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment

### ***Other Faculty Offering Instruction in Engineering Sciences***

Yu-Chi Ho, T. Jefferson Coolidge Research Professor of Applied Mathematics and Gordon McKay Research Professor of Engineering  
Thomas Lee, Visiting Associate Professor of Statistics (*Colorado State University*)  
Xiao-Li Meng, Professor of Statistics

The Division of Engineering and Applied Sciences ([www.deas.harvard.edu](http://www.deas.harvard.edu)) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Recommended course programs at the undergraduate level may be obtained from the Academic Office, Pierce Hall 110. Division faculty also offer several courses in the section entitled General Education Electives.

For information concerning concentration in Engineering Sciences, please consult the Co-Directors of Undergraduate Studies or the Academic Office, Division of Engineering and Applied Sciences, Pierce Hall 110.

### ***Primarily for Undergraduates***

#### **Engineering Sciences 6. Environmental Science and Technology**

Catalog Number: 2969

*Scot T. Martin*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to the role of technology in environmental sciences with an emphasis on solving problems concerning human use and control of the environment. Cases from aquatic, terrestrial, and atmospheric environments are discussed. In each setting the basic scientific principles underlying engineering control are emphasized. Occasional field trips are part of the course. The course presumes basic knowledge in chemistry, physics, and mathematics at the high school level.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science B.

#### **\*Engineering Sciences 50. Introduction to Electrical Engineering**

Catalog Number: 4499

*Todd Zickler*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

A discussion of topics of central importance to the fields of electronics, communications and



intelligent systems. The material concerns both the qualitative and quantitative analysis, as well as laboratory experiments and computer simulations. Examples of topics to be discussed range from relatively simple modules such as analog amplifiers and digital adders, to complex devices such as cell-phones and their supporting infrastructure.

*Note:* Students who have taken 100-level courses in electrical engineering will not be allowed to enroll in Engineering Sciences 50.

### **Engineering Sciences 51. Computer-Aided Machine Design**

Catalog Number: 0322

*Robert D. Howe*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

A first course in the design and construction of mechanical and electromechanical devices. Engineering graphics and sketching; dimensions and tolerances. Introduction to materials selection and structural design. Machine elements and two-dimensional mechanisms; DC motors. Design methodology. Emphasis on laboratory work and design projects using professional solid modeling CAD software and numerically controlled machine tools.

*Note:* Open to freshmen, sophomores, and juniors.

*Prerequisite:* Mathematics 1b (may be taken concurrently); high school physics.

### **\*Engineering Sciences 91r. Supervised Reading and Research**

Catalog Number: 1113

*Scot T. Martin and Marie D. Dahleh*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Guided reading and research.

*Note:* Normally open to candidates accepted for work on a specific topic by a member of the teaching staff of the Division of Engineering and Applied Sciences. Normally may not be taken for more than two terms; may be counted for concentration in Engineering Sciences if taken for graded credit. Applicants should file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

### **\*Engineering Sciences 96. Engineering Design Seminar**

Catalog Number: 8461 Enrollment: Limited to 25.

*Woodward Yang and Frederick H. Abernathy*

*Half course (spring term). M., Th., 4–5:30. EXAM GROUP: 9, 18*

Group project selected to provide experience in the processes and practice of engineering problem definition and solution as well as design and evaluation. As part of the course, the class may participate in an off-site field trip. The design seminar is ordinarily taken in the spring term of the junior year.

*Note:* Preference given to SB candidates.

### ***Cross-listed Courses***

### **\*Freshman Seminar 21s. Germs**

***For Undergraduates and Graduates***





Additional courses of interest to students in Electrical Engineering include: Computer Sciences 141, 143, and 148.

### **\*Engineering Sciences 100. Engineering Design Projects**

Catalog Number: 4268

*Robert D. Howe*

*Half course (fall term; repeated spring term). Th., 4–6. EXAM GROUP: 18*

Individual design projects selected to provide experience in the processes and practice of engineering design. Requires proficiency in electronic circuit construction as well as mechanical materials fabrication techniques.

*Note:* Ordinarily taken in the senior year. This one-term version of \*Engineering Sciences 100hf is open only to students in special circumstances. Enrolled students are required to file a proposed project form with the Academic Office early in the term. Project forms are available in Pierce Hall 110. Project approval rests with the faculty Engineering Design Review Board.

*Prerequisite:* \*Engineering Sciences 96.

### **\*Engineering Sciences 100hf. Engineering Design Projects**

Catalog Number: 7535

*Robert D. Howe*

*Half course (throughout the year). Th., 4–6. EXAM GROUP: 18*

Individual design projects selected to provide experience in the processes and practice of engineering design. Requires proficiency in electronic circuit construction as well as mechanical fabrication techniques.

*Note:* Ordinarily taken in the senior year. Enrolled students are required to file a proposed project form with the Academic Office early in the term. Project forms are available in Pierce Hall 110. Project approval rests with the faculty Engineering Design Review Board.

*Prerequisite:* \*Engineering Sciences 96.

### **Engineering Sciences 101. Applied Statistics**

Catalog Number: 3350

*Joseph J. Harrington*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Broad introductory course for students in the applied sciences. Probability, statistical inference, estimation and stochastic processes introduced through the solution of several problems in applied science (e.g., environmental sciences, decision analysis, chemical kinetics, fluid and solid mechanics, and oceanography). Course deals with the material covered in more theoretical detail in Statistics 110, 111, and 139, in approximately equal proportions with more emphasis on applications. Computer exercises will be required.

*Note:* No previous knowledge of statistics or probability is presumed.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.

### **Engineering Sciences 102. Introduction to Operations Research**

Catalog Number: 2844

*Roger W. Brockett and Vahid Tarokh*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*



Introduction to analytical and numerical methods for optimization of deterministic and stochastic systems; survey of linear and nonlinear programming, game theory, decision analysis, Markov chains, queuing theory and simulation. Examples taken from a variety of fields. A conceptual introduction to materials covered in depth in Engineering Sciences 201, 202, and 210. Segments of the weekly problem sets can be done on PCs, if desired.

*Note:* Students who have no background in probability should be prepared to do some extra work. Some PC experience useful but not essential.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b and some knowledge of probability and statistics at the level of Statistics 110 or Engineering Sciences 101.

### **Engineering Sciences 103. Spatial Analysis of Environmental and Social Systems**

Catalog Number: 9277

*Sumeeta Srinivasan*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduces the fundamental statistical and mapping tools needed for analysis of environmental systems. Topics will be linked by environmental and social themes and will include GIS concepts; data models; spatial statistics; density mapping; buffer zone analysis; surface estimation; map algebra; suitability modeling. Students will acquire technical skills in both mapping and spatial analysis. Software packages used will include ArcGis. There will be guest lectures by researchers and practitioners who use GIS for spatial analysis.

*Prerequisite:* Applied Mathematics 21 or equivalent.

### **Engineering Sciences 109. Science Fictions**

Catalog Number: 5988

*Cornelia Dean*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

Political, economic or other imperatives skew public debates on issues in which science plays an important part. Seminar discusses why this is possible and how it plays out. Will deal with the public's knowledge of and attitudes toward science, the way people reason and perceive risk, the privatization of the nation's research agenda, and the politicization of science.

### **Engineering Sciences 120. Introduction to the Mechanics of Solids**

Catalog Number: 1493

*Zhigang Suo*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

A first course in the mechanical sciences which introduces elements of continuum mechanics and explains how materials and structures stretch, bend, twist, shake, buckle, and break. Stress-strain behavior of materials. Statically determinate and indeterminate structures. Stress and strain, equations of motion or equilibrium, strain-displacement relations. Stress waves. Torsion. Beam theory with applications to beam deflections, vibrations, and buckling. Four laboratory sessions required.

*Prerequisite:* Physics 11a or 15a, and Applied Mathematics 21a or Mathematics 21a (previously) and Applied Mathematics 21b or Mathematics 21b (previously or concurrently).

### **\*Engineering Sciences 122 (formerly Engineering Sciences 119r). Cellular Engineering**

Catalog Number: 8439



*Kevin K. Parker*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Summary of the physical laws governing cellular homeostasis; role of the tissue microenvironment on cell life, death, and differentiation; control of cellular function and genetic programs by adhesion to substrates; signal transduction pathways and cellular metabolic control; mechanochemical and mechanoelectrical signal transduction; cell motility; clinical and industrial applications of engineered cells.

*Prerequisite:* Inorganic chemistry, cell biology, physics, and mathematics at the level of Applied Mathematics 21 or Mathematics 21. Suggested courses include organic chemistry and molecular biology.

### **Engineering Sciences 123. Introduction to Fluid Mechanics**

Catalog Number: 8323

*Silas D. Alben and Howard A. Stone*

*Half course (spring term). M., W., F., at 10, and laboratory. EXAM GROUP: 3*

Statics and dynamics of fluids. Buoyancy, stability, and hydrostatics. Laminar viscous flows, simple boundary layers. Dimensional analysis. Potential flows, origin of lift. Gravity waves, open channel flow. Navier-Stokes equation, Reynolds' stress, turbulent flows in boundary layers and pipes. Applications in environmental, biomedical, mechanical and chemical engineering, aerodynamics, physics, etc.

*Prerequisite:* Applied Mathematics 21a,b or Mathematics 21a,b; Engineering Sciences 120 and Applied Mathematics 105a or 105b recommended.

### **Engineering Sciences 125. Mechanical Systems**

Catalog Number: 7274

*Ashkan Vaziri*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Modeling and analysis of mechanical and some electromechanical systems. Topics include resonance, damping, frequency response, Laplace Transform methods, Lagrange's equations, multiple degree-of-freedom and continuous systems, and 3-D rigid body dynamics. Computer exercises on simulation of linear and nonlinear dynamic systems. Laboratory: experiments on vibration, stabilization, and complex dynamical systems using modern electronic instrumentation and data reduction systems. Computer simulations of a few systems will become laboratory exercises.

*Note:* May not be taken for credit in addition to Physics 151.

*Prerequisite:* Applied Mathematics 21a,b or Mathematics 21a,b or Mathematics 23a,b; Physics 11a or 15a.

### **Engineering Sciences 128. Computational Solid and Structural Mechanics**

Catalog Number: 0359

*James R. Rice*

*Half course (fall term). M., W., F., at 10 and a weekly section to be arranged. EXAM GROUP: 3*

Foundations of continuum mechanics, conservation laws, stress, strain, and constitutive behavior. Development of elasticity theory. Basic problems of stressing and deformation. Focus on computer analysis using the finite-element method. Plane stress and strain, torsion, wave propagation, vibrations, thin-walled structures, creep, plasticity and fracture. In computer



implementation, students develop simple finite-element analyses using the general-purpose program ABAQUS, and do a project addressing a significant problem arising in mechanical, civil or materials engineering, biomechanics, or earth science.

*Note:* Students who wish to cover the same material at a more advanced level should take Engineering Sciences 240.

*Prerequisite:* Engineering Sciences 120 or equivalent introduction to the mechanics of deformable materials.

### **Engineering Sciences 130. Tissue Engineering**

Catalog Number: 3169

*David J. Mooney*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Fundamental engineering and biological principles underlying field of tissue engineering, along with examples and strategies to engineer specific tissues for clinical use. Students will prepare a paper analyzing a current tissue engineering strategy, or proposing a new approach to a current challenge.

*Prerequisite:* Biochemistry or cell biology background.

### **Engineering Sciences 139. Innovation in Science and Engineering: Conference Course**

Catalog Number: 0994 Enrollment: Limited to 28.

*David A. Weitz and Thomas C. Esselman*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Explores factors and conditions contributing to innovation in science and engineering; how important problems are found, defined, and solved; roles of teamwork and creativity; and applications of these methods to other endeavors. Students receive practical and professional training in techniques to define and solve problems, and in brainstorming and other individual and team approaches.

*Note:* Taught through a combination of lectures, discussions, and exercises led by innovators in science, engineering, arts, and business.

### **Engineering Sciences 142. Orthopedic Biomechanics**

Catalog Number: 6149

*Ron N. Alkalay and guest lecturers*

*Half course (fall term). M., W., 3–4:30. EXAM GROUP: 8, 9*

Introductory course in biomechanics as applied to orthopedic science. Review of anatomy, kinematics, and solid mechanics for the musculoskeletal system. Emphasis on the mechanics of joints (movement, force transmission), bone, soft tissues (e.g., cartilage, ligament, muscle) and cellular mechanics. Examples from emerging technologies including imaging, cellular mechanics, and tissue engineering.

*Prerequisite:* Mathematics 21a,b or Applied Mathematics 21a,b; Physics 11a or 15a; Engineering Sciences 120 or equivalent introductory solid mechanics course.

### **[Engineering Sciences 143. Biotechnology Startup]**

Catalog Number: 4194

*David A. Edwards*

*Half course (spring term). Th., 3–6. EXAM GROUP: 17, 18*



Provides undergraduate students an opportunity to translate basic scientific discoveries in the healthcare arena to society, with dual focus on developed and developing world healthcare issues. Students develop the ideas from technology and business points of view. Students provide business and technology plans and present their concepts to members of the biotechnology community. Focuses on transport phenomena as motif for scientific discovery in the biomedical field.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Undergraduates recommended to have the equivalent of undergraduate fluid mechanics or have taken Engineering Sciences 144 or Engineering Sciences 214 or permission of instructor.

### **[Engineering Sciences 144. Introduction to Biotechnology]**

Catalog Number: 3580

*David A. Edwards*

*Half course (spring term). Th., 3–6. EXAM GROUP: 17, 18*

Introduces undergraduate students to early stage startup (public and private) biotechnologies related to healthcare in the developed and developing worlds. Students analyze basic technologies, as well as business plans and intellectual property protection, underlying existing biotechnology companies while learning of biotechnology development from discovery to commercialization.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Students recommended to have some familiarity with organic chemistry or permission of the instructor.

### **Engineering Sciences 145. Introduction to Systems Analysis with Physiological Applications**

Catalog Number: 8197

*Garrett B. Stanley and guest lecturers*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

A survey of systems theory with applications from bioengineering and physiology. Analysis: differential equations, linear and nonlinear systems, stability, the complementary nature of time and frequency domain methods, feedback, and biological oscillations. Applications: nerve function, muscle dynamics, cardiovascular regulation. Laboratory: neural models, feedback control systems, properties of muscle, cardiovascular function.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.

### **Engineering Sciences 148. Neural Signal Processing**

Catalog Number: 0495

*Garrett B. Stanley and guest lecturers*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines the generation, transmission, and processing of signals in single nerve cells and in neural ensembles, with emphasis on physical principles and contemporary mathematical models. Develops relevant analytical techniques, including systems theory, filtering, Fourier analysis, stochastic processes, estimation, and network theory. Special attention is given to the physiology of the mammalian visual system.

*Prerequisite:* Applied Mathematics 21a or Mathematics 21a and physics at the level of Physics



15b. Engineering Sciences 145 is ideal preparation; Biological Sciences 80 may compensate for lesser preparation in mathematics or physics.

### **Engineering Sciences 150. Probability with Applications in Electrical Engineering**

Catalog Number: 8997

Navin Khaneja

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

An introduction to basic probabilistic ideas that find application in the study of communications and systems. Topics include: random variables, distributions and densities. Probabilistic models in engineering. Markov chains and other discrete time stochastic processes. Conditional probabilities, Bayes' rule and application to the estimation of the value of a stochastic process. Examples from communication theory; characterization of communication channels.

Introduction to decision theory and application to the control of uncertain systems.

*Prerequisite:* Mathematics 21a or Applied Mathematics 21a, and Mathematics 21b or Applied Mathematics 21b.

### **Engineering Sciences 151. Electromagnetic Engineering**

Catalog Number: 5742

Donhee Ham

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Electromagnetism and its applications in modern science and technology, with special emphasis on wireless and fiber-optic communications. Topics include transmission lines and microwave circuits, Maxwell's equations, electromagnetic waves in free space, matter, and waveguides, ray optics, and antennae. Applications of electromagnetism in ultra-fast integrated circuits, wireless networking, and radio astronomy are also discussed to place the electromagnetic theory in practical contexts of the present-day science research and communication technology.

*Prerequisite:* Basic electromagnetism (Physics 11b or 15b or equivalent), basic circuit analysis (Engineering Sciences 50 or Engineering Sciences 154 or equivalent), basic vector calculus (Applied Math 21a or equivalent), basic differential equations (Applied Math 21b or equivalent) and familiarity with Fourier analysis (some part of Applied Math 105a or ES 156 or equivalent).

### **Engineering Sciences 154. Electronic Devices and Circuits**

Catalog Number: 6319

Woodward Yang

*Half course (fall term). Tu., Th., 2:30–4, and laboratory to be arranged. EXAM GROUP: 16, 17*

Introduction to semiconductor devices and analysis and design circuits using semiconductor devices. Topics include operational amplifier circuits; the physics of semiconductors; models of bipolar and field effect transistors; basic diode and transistor circuits; linear and nonlinear analysis of electronic circuits; computer simulation of electronic circuits with SPICE; analysis of analog circuit designs; digital integrated circuits and logic-families. Additional laboratories illustrate techniques for measurement and design of real electronic circuits.

*Prerequisite:* Introductions to electronic circuits as in Engineering Sciences 50, differential equations and Fourier series as in Applied Mathematics 21b, and electricity and magnetism as in Physics 11b or 15b.





### **Engineering Sciences 156. Signals and Systems**

Catalog Number: 6284

*Vahid Tarokh*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Time and frequency domain representations and analysis of signals and systems. Convolution and linear input-output systems in continuous and discrete time. Fourier transforms and Fourier series for continuous- and discrete-time signals. Laplace and Z transforms. Analog and digital filtering. Modulation. Sampling. FFT. Applications in circuit analysis, communication, control, and computing.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b.

### **Engineering Sciences 157. Speech and Audio Processing**

Catalog Number: 1724

*Patrick J. Wolfe*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduction to speech and audio processing, including both mathematical models and practical applications thereof. Time-frequency analysis, synthesis, modification, and coding of information-carrying natural sound signals; relevant aspects of acoustics and auditory perception; fundamental contemporary applications and methodologies.

*Prerequisite:* Engineering Sciences 156 or equivalent.

### **[Engineering Sciences 158. Digital Communications]**

Catalog Number: 7721

*Aleksandar Kavcic*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Examines the fundamental theories behind modern digital communication systems. Topics include: fundamental limits on communications, channel coding theorem, channel capacity theorem; baseband communications, orthogonal signal bases, matched filter receiver; digital representations of analog signals, sampling; waveform coding; baseband waveform coding; baseband waveform shaping, pulse amplitude modulation and intersymbol interference channels; digital modulation techniques; elements of error-control coding/decoding, viterbi decoding/detection; elements of spread-spectrum communications.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Engineering Sciences 156 and a course in probability theory and/or statistics.

### **[Engineering Sciences 162. Environmental Hydrodynamics and Hydrology]**

Catalog Number: 4163

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*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduces hydrological principles and the fluid mechanics of natural waters in the environment. Topics include the hydrological cycle, water budgets, evapotranspiration, precipitation, infiltration, snowmelt and runoff. Discusses groundwater flow, free-surface flow, boundary layers, channelization and river networks. Processes described in lakes, rivers, and estuaries include sedimentation, convection, freezing, stratification, and gravity waves.

*Note:* Expected to be given in 2006–07. Students who desire to take the course for graduate





credit should enroll in Engineering Sciences 262.

*Prerequisite:* Applied Mathematics 21b, or equivalent.

### **Engineering Sciences 165. Introduction to Environmental Engineering**

Catalog Number: 4274

*Peter P. Rogers*

*Half course (spring term). M., W., 3:30–5. EXAM GROUP: 8, 9*

Introduces engineering technologies for the control of the environment and relates them to underlying scientific principles. Efficient design of environmental management facilities and systems. Cases from aquatic, terrestrial, and atmospheric environments discussed.

*Note:* For undergraduates or graduates without background in environmental engineering.

*Prerequisite:* Exposure to the material in Applied Mathematics 21a or 21b (or equivalent), Engineering Sciences 101 and Chemistry 7 is recommended.

### **Engineering Sciences 167. Environmental Assessment**

Catalog Number: 6885

*Peter P. Rogers*

*Half course (fall term). M., W., 3:30–5. EXAM GROUP: 8, 9*

Examines the methods and approaches to environmental impact assessment currently being used and new approaches which rely on improved scaling and index development. Models of impact and indices for air, water, and land impacts will be examined using data from Asia and North America. Cost-of-remediation and environmental elasticity indicators will be examined and their use in engineering design and regulation of the environment will be assessed.

*Prerequisite:* Familiarity with the material of Engineering Sciences 6 and Social Analysis 10.

### **Engineering Sciences 168. Aquatic Chemistry**

Catalog Number: 5874

*Scot T. Martin*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Applications of organic, inorganic, and physical chemistry to describe and quantify processes occurring in natural waters. Thermodynamics and kinetics of aqueous solutions, acid-base chemical transformations, role of dissolved carbon dioxide, gas-water exchange, complexation of aqueous metal ions, precipitation and dissolution, oxidation and reduction, electrical aspects of solid-solution interfaces, particle aggregation, trace metal cycling, and photochemistry.

*Note:* Given in alternate years.

*Prerequisite:* Chemistry 5 and 7 or equivalent.

### **[Engineering Sciences 173. Optoelectronics and Photonics: Principles and Applications]**

Catalog Number: 3490

*Federico Capasso*

*Half course (spring term). W., F., 1–2:30. EXAM GROUP: 6, 7*

Covers key topics in photonics and optoelectronics. Wave propagation, reflection, refraction, interference and diffraction, coherence. Dielectric waveguides and optical fibers: modes, dispersion, attenuation; bandwidth. Semiconductor concepts, energy diagrams, p-n junctions, LED materials and characteristics. Lasers: stimulated emission; optical amplifiers, gas lasers, diode lasers, quantum well lasers, single mode lasers. Photodetectors: p-i-n, avalanche,



photoconductive and phototransistors, noise. Solar cells. Polarization and modulation of light: devices based on birefringence and on electrooptic, acousto-optic and nonlinear optical effects.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Physics 11a and Physics 11b; or Physics 15a and Physics 15b.

### **Engineering Sciences 174. Photonic and Electronic Device Laboratory**

Catalog Number: 3178

*Kenneth B. Crozier and Sandip Tiwari (Cornell University)*

*Half course (spring term). M., at 9 and a weekly 3-hour laboratory session. EXAM GROUP: 2* Lectures, laboratory experiments, and cleanroom fabrication sessions on core topics of photonic and electronic devices. Experimental characterization of optical fibers, photodetectors, semiconductor lasers and MOSFETs. Students use cleanroom to fabricate semiconductor lasers and MOSFETs.

*Prerequisite:* Physics 11a and Physics 11b; or Physics 15a and 15b.

### **Engineering Sciences 181. Thermodynamics**

Catalog Number: 3889

*Michael J. Aziz*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to engineering thermodynamics with emphasis on classical thermodynamics.

Topics: zeroth law and temperature. Properties of single-component gases, liquids, and solids; steam tables. Equations of state for ideal and simple nonideal substances. First law, heat and heat transfer, work, internal energy, enthalpy. Second law, entropy, free energy. Third law. Heat engines and important engineering applications such as refrigerators, power cycles. Properties and simple models of solutions. Phase and chemical equilibrium in multicomponent systems; chemical potential. Laboratory included.

*Prerequisite:* Physics 11 or 15 and Applied Mathematics or Mathematics 21; chemistry at the level of a good secondary school course or Chemistry 5.

### **Engineering Sciences 190. Introduction to Materials Science**

Catalog Number: 6973

*David J. Mooney*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to the structure and properties of materials. Crystallography, crystal defects and diffraction. Phase transformations: phase diagrams, diffusion, nucleation and growth.

Mechanisms of deformation and fracture. Effect of microstructure on properties. Introduction to mechanical behavior of bio-materials.

*Prerequisite:* Engineering Sciences 181 or equivalent, Physics 11 or 15, and Applied Mathematics 21a,b or Mathematics 21a,b.

### ***Cross-listed Courses***

### **Earth and Planetary Sciences 108. Environmental Geomechanics**

### **Earth and Planetary Sciences 133. Atmospheric Chemistry**

***Primarily for Graduates***



Additional courses of interest to graduate students in Electrical Engineering includes Computer Sciences 246r. Additional courses of interest to graduate students in Decision, Control, and Communication include Economics 2010a, 2010b, 2010c, 2120, 2140; Statistics 110, 171.

### **Engineering Sciences 201. Decision Theory**

Catalog Number: 2362

*Roger W. Brockett*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Mathematical analysis of decision making. Bayesian inference and risk. Maximum likelihood and nonparametric methods. Algorithmic methods for decision rules: perceptrons, neural nets, and back propagation. Hidden Markov models, Blum-Welch, principal and independent components.

*Prerequisite:* Applied Mathematics 21a,b or Mathematics 21a,b, and Statistics 110 or equivalents.

### **Engineering Sciences 202. Estimation and Control of Dynamic Systems**

Catalog Number: 5080

*Navin Khaneja*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

Study of dynamical systems with deterministic and stochastic inputs. Controllability and observability, linear quadratic control, dynamic programming and the Pontryagin maximum principle, Stochastic models and Kalman-Bucy filtering. Applications from engineering, and economics.

*Prerequisite:* Linear differential equations, matrix algebra, and introductory probability as covered in Mathematics 21a, b and Engineering Sciences 150 or equivalents.

### **[Engineering Sciences 203. Stochastic Control]**

Catalog Number: 6982

*Navin Khaneja*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Introduction to the theory of stochastic differential equations based on Wiener processes and Poisson counters, and an introduction to random fields. The formulation and solution of problems in nonlinear estimation theory. The Kalman-Bucy filter and nonlinear analogues. Identification theory. Adaptive systems. Applications.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Applied Mathematics 105a,b or equivalent. Some prior exposure to probability; Engineering Sciences 202 desirable but not essential.

### **\*Engineering Sciences 207. Communicating Science**

Catalog Number: 5993 Enrollment: Limited to 20.

*Cornelia Dean*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Many important public issues have strong science components but, generally, scientists are missing from public debates. This seminar discusses how the relative silence of scientists weakens our national discourse and encourages participation in this discourse.



*Note:* Through writing exercises, role playing, and the like, seminar offers practical suggestions on how to communicate scientific information in an engaging and useful fashion.

**[Engineering Sciences 209. Nonlinear Control Systems]**

Catalog Number: 1194

Navin Khaneja

*Half course (fall term). Hours to be arranged.*

Study of nonlinear input-output systems including controllability, observability, uniqueness of models, stability, and qualitative behavior of nonlinear dynamical systems. Differential geometry and Lie theory methods developed to study control of classical and quantum mechanical systems.

*Note:* Expected to be given in 2006–07.

**Engineering Sciences 210. Mathematical Programming**

Catalog Number: 5499

Donald G. M. Anderson

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduction to basic optimization techniques. Linear programming: the simplex method and related algorithms, duality theory, interior-point methods. Unconstrained optimization, nonlinear programming, convexity.

*Note:* Expected to be omitted in 2006–07. Offered in alternate years.

*Prerequisite:* Applied Mathematics 21a and 21b, or Mathematics 21a and 21b, and Applied Mathematics 120, or equivalent.

**\*Engineering Sciences 211. Cardiac Biophysics**

Catalog Number: 3906

Kevin K. Parker

*Half course (fall term). W., 1–3 and a weekly section to be arranged. EXAM GROUP: 6, 7*

A quantitative examination of cardiac excitation and excitation-contraction coupling. Cardiac membrane channels, the action potential (Hodgkin-Huxley and Luo-Rudy models), and action potential propagation (cable and bidomain models). Arrhythmias, drugs, and defibrillation.

*Prerequisite:* Electromagnetic field and electric circuit theories, calculus through partial differential equations, cell biology, physiology, and extensive MATLAB programming experience. C programming experience recommended.

**Engineering Sciences 212. Advanced Orthopedic Biomechanics**

Catalog Number: 3856

Ron N. Alkalay and guest lecturers

*Half course (fall term). M., W., 3–4:30. EXAM GROUP: 8, 9*

Students are expected to meet all of the requirements of Engineering Sciences 142 and in addition are required to write a term paper with significant analytical and engineering emphasis.

*Prerequisite:* Mathematics 21a,b or Applied Mathematics 21a,b; Physics 11a or 15a; Engineering Sciences 120 or equivalent introductory solid mechanics course.

**[Engineering Sciences 213. Advanced Biotechnology Startup]**

Catalog Number: 1083

David A. Edwards



*Half course (spring term). Th., 3–6. EXAM GROUP: 17, 18*

Students are expected to meet all of the requirements of Engineering Sciences 143 and in addition are required to prepare a special written project motif for scientific discovery in the biomedical field.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Students recommended to have the equivalent of undergraduate fluid mechanics or have taken Engineering Sciences 144 or Engineering Sciences 214 or permission of instructor.

### **[Engineering Sciences 214. Advanced Introduction to Biotechnology]**

Catalog Number: 2663

*David A. Edwards*

*Half course (spring term). Th., 3–6. EXAM GROUP: 17, 18*

Students are expected to meet all of the requirements of Engineering Sciences 144 and in addition are required to complete a project that encourages them to consider a contemporary problem of bioethics related to biotechnology.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Students recommended to have some familiarity with organic chemistry or permission of instructor.

### **Engineering Sciences 215. Advanced Introduction to Systems Analysis with Physiological Applications**

Catalog Number: 5493

*Garrett B. Stanley and guest lecturers*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Students expected to meet all of the requirements of Engineering Sciences 145 and in addition required to write a term paper with significant analytic emphasis.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.

### **Engineering Sciences 216. Biological Mechanics**

Catalog Number: 8148

*L. Mahadevan and Daniel S. Fisher*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Develops and applies continuum and statistical mechanics to biomechanical phenomena.

Molecular, cellular and tissue mechanics. Motors, motility and muscle. Sensory physiology and mechanotransduction. Morphogenesis and development. Animal locomotion. Evolutionary mechanics.

*Prerequisite:* Knowledge of undergraduate fluid/solid mechanics (or equivalent courses in physics), differential equations.

### **[Engineering Sciences 217. Computational Neuroscience ]**

Catalog Number: 8112

*Garrett B. Stanley*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A range of current topics in computational neuroscience at the systems level are presented.

Discussions include spike trains, point processes, encoding/decoding, information theory, adaptation/plasticity, learning, and neural system identification.



*Note:* Expected to be given in 2006–07.

*Prerequisite:* Applied Mathematics 105a and 105b or equivalent, linear algebra, probability and statistics. Coursework in signals and systems and/or control would be ideal.

### **Engineering Sciences 218. Advanced Neural Signal Processing**

Catalog Number: 7709

*Garrett B. Stanley and guest lecturers*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Students are expected to meet all of the requirements of Engineering Sciences 148 and in addition are required to write a term paper with significant analytic emphasis.

*Prerequisite:* Applied Mathematics 21a or Mathematics 21a and physics at the level of Physics 15b. Engineering Sciences 145 is ideal preparation; Biological Sciences 80 may compensate for lesser preparation in mathematics or physics.

### **Engineering Sciences 220. Fluid Dynamics**

Catalog Number: 2759

*Howard A. Stone*

*Half course (fall term). M., W., F., at 9. EXAM GROUP: 2*

Vector and tensor calculus. Conservation laws; kinematics and constitutive equations. Exact solutions of the Navier-Stokes equations. Lubrication theory and flows at low Reynolds numbers. Potential flows and boundary layer theory. Introduction to turbulent flows and free-surface flows.

*Prerequisite:* Familiarity with classical mechanics, partial differential equations, and vector and tensor calculus. An undergraduate course in fluid dynamics is strongly recommended.

### **\*Engineering Sciences 222 (formerly Engineering Sciences 219r). Advanced Cellular Engineering**

Catalog Number: 0696

*Kevin K. Parker*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Students are expected to meet all requirements of Engineering Sciences 122 and to give a presentation on a cellular engineering topic of their choosing, subject to instructor approval, with handouts, homework, and examination questions.

*Prerequisite:* Inorganic chemistry, cell biology, physics, and mathematics at the level of Applied Mathematics 21 or Mathematics 21. Suggested courses include organic chemistry and molecular biology.

### **Engineering Sciences 225r. Special Topics in Fluid Dynamics**

Catalog Number: 3982

*Armand Ajdari and Howard A. Stone*

*Half course (spring term). M., 4–6:30. EXAM GROUP: 9*

Will provide an overview of fluid dynamics and transport processes relevant to microfluidics. Topics to be discussed include electrically driven flows, multiphase flows, dispersion, mixing, suspended particles, etc.

**Engineering Sciences 230 (formerly Engineering Sciences 223). Advanced Tissue Engineering**

Catalog Number: 5718

*David J. Mooney**Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Fundamental engineering and biological principles underlying field of tissue engineering, along with examples and strategies to engineer specific tissues for clinical use. Student design teams research, write up, and present a formal proposal for a research project.

*Prerequisite:* Biochemistry or cell biology background.

**Engineering Sciences 239. Advanced Innovation in Science and Engineering: Conference Course**

Catalog Number: 8303 Enrollment: Limited to 28.

*David A. Weitz and Thomas C. Esselman**Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Students are expected to meet all the requirements of Engineering Sciences 139 and in addition are required to prepare an individual term project with significant analytic emphasis in an area of scientific or technological innovation.

**Engineering Sciences 240. Solid Mechanics**

Catalog Number: 2984

*James R. Rice**Half course (fall term). M., W., F., at 10 and a weekly section to be arranged. EXAM GROUP: 3*

Foundations of continuum mechanics, development of elasticity theory, and introduction to plasticity and creep. Basic problems of stressing and deformation of solids. Finite-element methodology.

*Note:* Includes topics of Engineering Sciences 128, with additional advanced coverage.

*Prerequisite:* Applied Mathematics 105b or equivalent; introduction to solid mechanics at the level of Engineering Sciences 120, or Earth and Planetary Sciences 108 or 166, or Applied Physics 293.

**[Engineering Sciences 241. Advanced Elasticity]**

Catalog Number: 6711

*James R. Rice and John W. Hutchinson**Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Mechanics of finite deformation; buckling instability. Thermodynamics of continua; thermoelasticity, poroelasticity. Basic three-dimensional problems; inclusions and inhomogeneities. Plane elasticity and complex variable methods. Crack solutions. Elastic waves, vibrations; radiation from fractures.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Engineering Sciences 240 and Applied Mathematics 201 or equivalents.

**[Engineering Sciences 242r. Solid Mechanics: Advanced Seminar]**

Catalog Number: 5379

*Zhigang Suo, John W. Hutchinson, and Joost J. Vlassak**Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*





The mechanics of thin films, multilayers and evolving small structures with emphasis on deformation, fracture and shape evolution. Topics bridge from atomistic processes to mesoscopic phenomena to engineering applications.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Engineering Sciences 240 or equivalent.

### **[Engineering Sciences 246. Plasticity]**

Catalog Number: 4271

*Joost J. Vlassak*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Phenomenological theories for strain hardening materials; flow and deformation theories.

Variational principles and other general theorems. Mechanisms of plastic deformation, physical theories for strain hardening materials, and polycrystals. Ideal plasticity. Boundary value problems, plastic collapse, buckling of structures.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Engineering Sciences 240, or equivalent.

### **Engineering Sciences 247. Fracture Mechanics**

Catalog Number: 7152

*Joost J. Vlassak*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Fundamentals of fracture with applications in materials and structural mechanics.

Micromechanics of fracture in ceramics, metals, and polymers. Fracture of composite materials.

Interfacial fracture mechanics. Fatigue crack propagation.

*Prerequisite:* Engineering Sciences 240 or equivalent.

### **[Engineering Sciences 250. Information Theory]**

Catalog Number: 8606

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*Half course (spring term). Hours to be arranged.*

Fundamental concepts and results of C. E. Shannon's theory of information. Applications to classical, quantum and biological communications discussed as time permits. At the level of *Elements of Information Theory* by Cover and Thomas.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* A full term of probability theory, imparting facility with conditional probability, random variables, random vectors, and the expectation operator.

### **Engineering Sciences 251. Signal and Image Processing and Inference Using Wavelets**

Catalog Number: 3211

*Patrick J. Wolfe, Thomas Lee (Colorado State University), and Xiao-Li Meng*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Meets with Statistics 251 but with additional emphasis on signal and image processing. Theory of time-frequency/time-scale methods, methodologies for and motivated by statistical inference and missing-data problems, associated computational algorithms, and fundamental engineering applications.

*Prerequisite:* Engineering Sciences 156 or equivalent, knowledge of probability theory and/or



statistics at the level of Statistics 110/111 or above, and programming experience; or permission of instructor.

### **Engineering Sciences 255. Detection and Estimation Theory and Applications**

Catalog Number: 9816

*Patrick J. Wolfe*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Statistical decision theory; hypothesis testing; linear and non-linear estimation; maximum likelihood and Bayes approaches; stochastic processes and systems; signal detection and estimation in noise; Wiener and Kalman filtering; applications to physical, chemical, and biological systems.

*Prerequisite:* Knowledge of probability theory and calculus.

### **Engineering Sciences 257. Advanced Speech and Audio Processing**

Catalog Number: 5006

*Patrick J. Wolfe*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Students are expected to meet all the requirements of Engineering Sciences 157 and in addition are required to prepare a more substantial term project at a level on par with current research in the field.

*Prerequisite:* Engineering Sciences 156 or equivalent.

### **[Engineering Sciences 258. Advanced Digital Communications]**

Catalog Number: 8645

*Aleksandar Kavcic*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

The contents and the course requirements are similar to those of Engineering Sciences 158, with the exception that students enrolled in Engineering Sciences 258 are required to prepare a term project analyzing current research in a specific area of digital communications.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Engineering Sciences 156 and a course in probability theory and/or statistics.

### **Engineering Sciences 260. Engineering Systems for Environmental Control**

Catalog Number: 1180

*Joseph J. Harrington*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Engineering aspects of provision of drinking water; collection and disposal of wastewater. Best management practices for stormwater control. Data collection and processing for monitoring and operation of environmental control systems.

*Prerequisite:* Engineering Sciences 123 or permission of instructor.

### **[Engineering Sciences 261. Design of Water Resource Systems]**

Catalog Number: 3919

*Peter P. Rogers*

*Half course (fall term). M., W., 3:30–5. EXAM GROUP: 8, 9*

Functional design of management systems for collection, storage, conveyance, treatment, and



distribution of water. Uses techniques of operations research to develop methods for planning integrated systems of dams, reservoirs, canals, pipe networks, pumps, and treatment plants. Applications in water supply, irrigation hydropower, environmental protection, and conservation of wildlife.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.

### **[Engineering Sciences 262. Advanced Environmental Hydrodynamics and Hydrology ]**

Catalog Number: 5658

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*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

The contents and course requirements are similar to those in Engineering Sciences 162, with the exception that students are required to conduct extra reading and complete extra assignments.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Applied Mathematics 21b, or equivalent.

### **Engineering Sciences 265. Advanced Environmental Geomechanics**

Catalog Number: 1469

*James R. Rice and Hoe I. Ling (Columbia University)*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly session to be arranged. Meets with EPS 108. EXAM GROUP: 12, 13*

Meets together with Earth and Planetary Sciences 108. Additional advanced topics chosen from: seepage flows, solute transport, constitutive response, poroelasticity, failure mechanics, granular flows, glacial processes, seismic effects, open channel flows, turbulence, and sediment transport.

*Note:* Given in alternate years.

*Prerequisite:* Applied Mathematics 105a,b or equivalent, and study at an undergraduate level in solid or fluid mechanics comparable to Engineering Sciences 120 and 123.

### **[Engineering Sciences 268. Environmental Chemical Kinetics]**

Catalog Number: 8711

*Scot T. Martin*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Quantifying the time rate of change of chemical species in environmental systems. Common laboratory techniques to measure rate constants. Linear free energy relationships and structural contributions to estimate unknown rate constants. Formulating a coupled chemical system and application of the six principal approximations to obtain analytical solutions. Numerical analysis of complex systems. Concepts are taught by reference to topical problems of current interest in environmental systems. Literature assignments and discussion are part of the course.

*Note:* Expected to be given in 2006–07. Given in alternate years.

*Prerequisite:* Physical Chemistry (e.g., Chemistry 60 or Engineering Sciences 168) and Applied Mathematics 21a,b or Mathematics 21a,b or equivalent.

### **Engineering Sciences 272. RF and High-Speed Integrated Circuits**

Catalog Number: 5157

*Donhee Ham*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*



Analysis and design of RF and high speed integrated communication circuits at both transistor and system levels. Emphasis on intuitive design methods, physical understanding, analytical and simulation performance evaluation, and practical technology limitations.

*Prerequisite:* Solid-state devices and analog circuits (Engineering Sciences 154 or equivalent), basic electromagnetism (Physics 11b or 15b or some part of Engineering Sciences 151 or equivalent), basic differential equations (Applied Mathematics 21b or equivalent), and Fourier analysis (some part of Applied Mathematics 105a or Engineering Sciences 156 or equivalent).

### **Engineering Sciences 274. Quantum Technology I**

Catalog Number: 5645

*Federico Capasso*

*Half course (fall term). W., F., 1–2:30. EXAM GROUP: 6, 7*

The focus is on devices based on bandstructure engineering that have impacted photonics and communications. Semiconductor heterostructures. Quantum size effect; tunneling; superlattices; excitons; quantum confined Stark effect. Quantum well lasers; modulators. Quantum Cascade Lasers.

*Prerequisite:* Undergraduate level quantum mechanics such as Physics 143a or equivalent. Familiarity with basic solid-state physics (Applied Physics 195 or equivalent), semiconductor physics and electronic devices (Applied Physics 282, Engineering Sciences 154 or equivalent).

### **Engineering Sciences 275. Nanophotonics**

Catalog Number: 9815

*Kenneth B. Crozier*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Recent developments in micro- and nano-photonic materials, devices and microscopy. Computational electromagnetics. Photonic crystals. Optical properties of metal nanostructures. Scanning near-field optical microscopy. Term-long research project.

*Note:* Open to graduate students and advanced undergraduates.

*Prerequisite:* Electromagnetism (Physics 11b or 15b or Engineering Sciences 151 or equivalent).

### **Engineering Sciences 278. Custom Design of Advanced VLSI Circuits and Systems**

Catalog Number: 8194

*Gu-Yeon Wei*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Covers a broad range of topics in advanced VLSI design. The latter half of the term will focus on custom VLSI design group projects that will be fabricated through an external semiconductor foundry.

*Prerequisite:* Computer Science 141, Engineering Sciences 154, or equivalent courses, or approval of instructor.

### **Engineering Sciences 299r. Special Topics in Engineering Sciences**

Catalog Number: 6710

*Howard A. Stone*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervision of experimental or theoretical research on acceptable engineering and applied science problems and supervision of reading on topics not covered by regular courses of



instruction.

*Note:* Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the Division. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

### ***Cross-listed Courses***

**[\*Earth and Planetary Sciences 231. Climate Dynamics]**

**[Earth and Planetary Sciences 263. Earthquake Source Processes]**

Additional courses of interest to graduate students in Environmental Science and Engineering might include courses offered at the Harvard School of Public Health.

### ***Graduate Courses of Reading and Research***

Reading courses are odd-numbered; research courses are even-numbered.

**\*Engineering Sciences 301,302. Photonics: Micro- and Nano-Fabrication**

Catalog Number: 7403,4838

*Kenneth B. Crozier 5146*

**\*Engineering Sciences 303,304. Topics in Electronic Materials and Semiconductor Heterostructure Physics**

Catalog Number: 8668,2824

*Venkatesh Narayanamurti 5445*

**\*Engineering Sciences 305,306. Manufacturing to Satisfy Stochastic Demand**

Catalog Number: 6157,6159

*Frederick H. Abernathy 1047 (on leave fall term)*

**\*Engineering Sciences 307,308. Control Theory, Robotics, Computer Vision, and Intelligent Machines**

Catalog Number: 7566,2719

*Roger W. Brockett 3001 (on leave fall term)*

**\*Engineering Sciences 309,310. Design, Sensing, and Control**

Catalog Number: 5043,7419

*Robert D. Howe 2789*

**\*Engineering Sciences 311,312. Systems and Control, Quantum Information and Quantum Control, Computational Vision, Image Analysis and Understanding**

Catalog Number: 2025,9377

*Navin Khaneja 4192*



**\*Engineering Sciences 313,314. Image Processing and Computer Vision**

Catalog Number: 4254,8534

*Todd Zickler 5143*

**\*Engineering Sciences 315,316. Computer Networks**

Catalog Number: 2848,2849

*H. T. Kung 3155*

**\*Engineering Sciences 317,318. Systems and Control**

Catalog Number: 5089,1030

*Yu-Chi Ho 1057*

**\*Engineering Sciences 319,320. Mobile Microrobotic Systems**

Catalog Number: 5306,5314

*Robert J. Wood 5339*

**\*Engineering Sciences 321,322. Shannon Theory, Digital Communications, and Reliable Transmission of Information**

Catalog Number: 9317,2330

*Aleksandar Kavcic 1261 (on leave 2005-06)*

**\*Engineering Sciences 323,324. Statistical Signal Processing**

Catalog Number: 1174,5484

*Patrick J. Wolfe 5144*

**\*Engineering Sciences 325,326. Mixed-Signal VLSI Design**

Catalog Number: 8415,9336

*Gu-Yeon Wei 4102*

**\*Engineering Sciences 327,328. Circuit Design and Scientific Instrumentation**

Catalog Number: 4901,6521

*Paul Horowitz 3537*

**\*Engineering Sciences 329,330. Wireless Communication and Networking**

Catalog Number: 4111,7427

*Vahid Tarokh 4368*

**\*Engineering Sciences 331,332. RF/Microwave/Analog/Mixed-Signal Integrated Circuits**

Catalog Number: 9645,9655

*Donhee Ham 4519*

**\*Engineering Sciences 333,334. Mechanics and Materials in Small Structures**

Catalog Number: 6528,5449

*Zhigang Suo 4761 (on leave fall term)*



**\*Engineering Sciences 335,336. Mechanics of Engineering Materials and Small Devices**

Catalog Number: 8173,2399

*Joost J. Vlassak 3184*

**\*Engineering Sciences 337,338. Mechanics of Solids and Fluids: Geomechanics; Faulting, Friction and Fracture**

Catalog Number: 4316,3948

*James R. Rice 7270*

**\*Engineering Sciences 341,342. Special Topics in Fluid Dynamics**

Catalog Number: 2231,2237

*Howard A. Stone 2073*

**\*Engineering Sciences 343,344. Deformation and Fracture of Materials**

Catalog Number: 3907,2803

*John W. Hutchinson 1573*

**\*Engineering Sciences 345,346. Neural Control of Movement**

Catalog Number: 6002,6007

*Maurice A. Smith 5342*

**\*Engineering Sciences 347,348. Biological Systems Analysis and Control**

Catalog Number: 6761,3310

*Garrett B. Stanley 2797*

**\*Engineering Sciences 351,352. Engineering Mammalian Cell Phenotype**

Catalog Number: 4879,6421

*David J. Mooney 4879*

**\*Engineering Sciences 353,354. Cellular Biophysics**

Catalog Number: 3813,3798

*Kevin K. Parker 4788*

**\*Engineering Sciences 357,358. Atmosphere-Biosphere Interactions**

Catalog Number: 7661,8060

*Steven C. Wofsy 4396*

**\*Engineering Sciences 359,360. Stratospheric Chemistry and Transport**

Catalog Number: 8410,6856

*Steven C. Wofsy 4396*

**\*Engineering Sciences 361,362. Atmospheric Chemistry**

Catalog Number: 7238,7514

*Daniel J. Jacob 1781*





**\*Engineering Sciences 363,364. Dynamic Meteorology**

Catalog Number: 3756,3757

*Brian F. Farrell 7628*

**\*Engineering Sciences 365,366. Topics in Atmospheric and Climate Dynamics**

Catalog Number: 3233,3236

*Zhiming Kuang 5285*

**\*Engineering Sciences 369,370. Urban and Regional Systems Analysis**

Catalog Number: 8775,8768

*Peter P. Rogers 2804*

**\*Engineering Sciences 375,376. Environmental Biology**

Catalog Number: 3985,2863

*Ralph Mitchell 1587*

**\*Engineering Sciences 377,378. Transport Phenomena and Biomaterials for Drug Delivery**

Catalog Number: 6385,8671

*David A. Edwards 3919*

**\*Engineering Sciences 389,390. Environmental Chemistry**

Catalog Number: 6660,1639

*Scot T. Martin 3365*

**\*Engineering Sciences 391,392. Environmental Engineering**

Catalog Number: 3979,2860

*Joseph J. Harrington 2427*

**\*Engineering Sciences 393,394. Microelectronics and VLSI Systems**

Catalog Number: 6037,6056

*Woodward Yang 2790*

## English and American Literature and Language

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of English and American Literature and Language*

James Engell, Gurney Professor of English Literature and Professor of Comparative Literature  
(Chair)



Daniel Albright, Ernest Bernbaum Professor of Literature (*on leave fall term*)  
 Amy R. Appleford, Lecturer on English and American Literature and Language  
 Suzanne Berne, Visiting Lecturer on English and American Literature and Language  
 Homi K. Bhabha, Anne F. Rothenberg Professor of English and American Literature and Language  
 Sven P. Birkerts, Briggs Copeland Lecturer on English and American Literature and Language  
 Lawrence Buell, Powell M. Cabot Professor of American Literature  
 Glenda R. Carpio, Assistant Professor of African and African American Studies and of English and American Literature and Language (*on leave fall term*)  
 Lan Samantha Chang, Briggs-Copeland Lecturer on English and American Literature and Language  
 J. D. Connor, Assistant Professor of Visual and Environmental Studies and of English and American Literature and Language  
 Leo Damrosch, Harvard College Professor and Ernest Bernbaum Professor of Literature (*on leave spring term*)  
 Leland P. de la Durantaye, Assistant Professor of English and American Literature and Language  
 Daniel G. Donoghue, John P. Marquand Professor of English  
 Lynn M. Festa, Gardner Cowles Associate Professor of English and American Literature and Language (*on leave fall term*)  
 Philip J. Fisher, Harvard College Professor and Felice Crowl Reid Professor of English and American Literature  
 Marjorie Garber, William R. Kenan, Jr. Professor of English and American Literature and Language and of Visual and Environmental Studies  
 Henry Louis Gates, Jr., W.E.B. Du Bois Professor of the Humanities  
 Amitav Ghosh, Visiting Professor of English and American Literature and Language  
 Jorie Graham, Boylston Professor of Rhetoric and Oratory  
 Stephen J. Greenblatt, Cogan University Professor  
 Joseph C. Harris, Francis Lee Higginson Professor of English Literature and Professor of Folklore (*on leave 2005-06*)  
 Seamus Heaney, Ralph Waldo Emerson Poet in Residence  
 Matthew Kaiser, Assistant Professor of English and American Literature and Language  
 Robert J. Kiely, Harvard College Professor and Donald P. and Katherine B. Loker Professor of English (*on leave spring term*)  
 Jamaica Kincaid, Visiting Lecturer on African and African American Studies and on English and American Literature and Language  
 Barbara K. Lewalski, William R. Kenan, Jr. Professor of History and Literature and of English Literature  
 Elizabeth D. Lyman, Assistant Professor of English and American Literature and Language (*on leave 2005-06*)  
 Michele C. Martinez, Lecturer on History and Literature and on English and American Literature and Language  
 Louis Menand, Anne T. and Robert M. Bass Professor of English and American Literature and Language  
 Brighde Mullins, Briggs-Copeland Lecturer on English and American Literature and Language  
 Elisa New, Professor of English and American Literature and Language  
 Peter C. Nohnberg, Assistant Professor of English and American Literature and Language



John Parker, Associate Professor of English and American Literature and Language (*on leave spring term*)

John M. Picker, Assistant Professor of English and American Literature and Language

Leah Price, Professor of English and American Literature and Language

Peter Richards, Briggs-Copeland Lecturer on English and American Literature and Language

Alan Richardson, Visiting Professor of English and American Literature and Language (*Boston College*)

Ann Wierda Rowland, Assistant Professor of English and American Literature and Language

Peter Sacks, John P. Marquand Professor of English

Robert Scanlan, Professor of the Practice of Theater

Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value

Sharmila Sen, Assistant Professor of English and American Literature and Language

Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English

Michael Shinagel, Senior Lecturer on English

James Simpson, Professor of English and American Literature and Language (*on leave spring term*)

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies

John Stauffer, Professor of English and American Literature and Language and Professor of African and African American Studies

Jason W. Stevens, Assistant Professor of English and American Literature and Language

Gordon Teskey, Professor of English and American Literature and Language (*Acting Director of Undergraduate Studies*)

Katherine A. Vaz, Briggs-Copeland Lecturer on English and American Literature and Language

Helen Vendler, Arthur Kingsley Porter University Professor (*on leave 2005-06*)

Nicholas Watson, Professor of English and American Literature and Language (*Director of Graduate Studies*)

James Wood, Professor of the Practice of Literary Criticism

### ***Other Faculty Offering Instruction in the Department of English and American Literature and Language***

Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology

Armand M. Nicholi II, Associate Clinical Professor of Psychiatry (*Medical School*)

English 10a and 10b, both required of concentrators, are often chosen as entry points to the study of English at Harvard. Students are invited, however, to begin at any other point that might seem better suited to their interests and level of preparation: a Freshman Seminar taught by faculty members from the English Department; English 97, the Sophomore Seminar that is required of concentrators; English 13, 17, 20, 34, or a 100 level course, all of which are taught in lecture or seminar-like format according to enrollment size; or, space permitting and with instructor consent, a 90 level Undergraduate Seminar or a Creative Writing workshop.

## ***I. Creative Writing***

### ***Primarily for Undergraduates***



Without approval of the department, no student may take more than one full course in Creative Writing in any one year. A Creative Writing course may be repeated for credit provided the student has the permission of the instructor and the Director of Undergraduate Studies of the Department.

**\*English Capr. Advanced Poetry Workshop**

Catalog Number: 6523 Enrollment: Limited to 15.

*Jorie Graham*

*Half course (spring term). W., 4–7 pm. EXAM GROUP: 9*

Open by application to both undergraduates and graduates. Please submit a portfolio including a letter of interest, ten poems, and a list of classes (taken at Harvard or elsewhere) that seem to have bearing on your enterprise. Class lasts 3 hours and includes the study of poetic practice in conjunction with the discussion of student work.

**\*English Caxr. Advanced Fiction Writing**

Catalog Number: 5152

*Suzanne Berne*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

See English Cxr. Students in the advanced class will be expected to revise work more often and to a higher standard.

*Note:* Admission based on previously submitted samples of writing. Generally for students who have taken fiction workshops previously.

**\*English Cer. Building the Essay**

Catalog Number: 4481 Enrollment: Limited to 15.

*Sven P. Birkerts*

*Half course (fall term; repeated spring term). W., 1–3. EXAM GROUP: 6, 7*

This workshop-based course will focus on the stages of conceptualizing, drafting, writing and re-writing the personal and topical essay. Students will produce two full-length essays, and drafts will be workshopped.

*Note:* Admission based on previously submitted samples of writing.

**\*English Cfr. Writing the First Person**

Catalog Number: 4548 Enrollment: Limited to 15.

*Sven P. Birkerts*

*Half course (fall term; repeated spring term). M., 1–3. EXAM GROUP: 6, 7*

This workshop-based course will explore the uses and possibilities of the first-person point-of-view in the essay, covering a range from the personal/topical to the memoiristic and focusing on strategies of self-presentation. Drafts and re-writes will be discussed.

*Note:* Admission based on previously submitted samples of writing.

**\*English Ckr. Playwriting Workshop**

Catalog Number: 6781 Enrollment: Limited to 15.

*Brighe Mullins*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

The focus of this workshop is on writing for the stage. With this in mind, we will read plays,



view productions, and discuss the contributions of the designers, actors, and director. We will hear each other's plays, discuss them, and rewrite them with an eye to the overall theatricality of the scripts. In the spring term, our focus is on writing and performing monologues and soliloquies.

*Note:* Admission based on samples of previously submitted writing.

**\*English Clr. Screenwriting Workshop**

Catalog Number: 6121 Enrollment: Limited to 15.

*Brighe Mullins*

*Half course (spring term). Section I: Th., 1–3; or Section II: Th., 4–6.*

This workshop introduces students to the structural format of the screenplay with a focus on text. Assignments include reading scripts and viewing independent and short films, as well as adaptations, as practical models for writing a script.

*Note:* Admission based on samples of previously submitted writing.

**\*English Cpr. Poetry Writing**

Catalog Number: 3053 Enrollment: Limited to 15.

*Peter Richards*

*Half course (fall term; repeated spring term). Fall: M., 1–3; Spring: M., 1–4. EXAM GROUP: Fall: 6, 7; Spring: 6, 7, 8*

A poetry workshop open by application to undergraduate and graduate students alike. In this class students will study modern and contemporary poets and can expect to submit their own poems on a weekly basis for peer review.

*Note:* Admission based on previously submitted samples of writing.

**\*English Cpwr. Poetry Workshop**

Catalog Number: 4606 Enrollment: Limited to 15.

*Jorie Graham*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Open by application to both undergraduates and graduates. Please submit a portfolio including five poems, a letter explaining your interest in the class, and a list of relevant classes taken at Harvard or elsewhere. Class includes the discussion of literary texts as well as work written by students.

**\*English Cqr. Advanced Poetry Writing**

Catalog Number: 2644 Enrollment: Limited to 15.

*Peter Richards*

*Half course (fall term; repeated spring term). Th., 1–4. EXAM GROUP: 15, 16, 17*

An advanced poetry workshop with an emphasis on form, revision, and aleatory methods for generating new work. Readings include Guillaume Apollinaire, W.H. Auden, Anne Balakian, Gottfried Benn, Joe Brainard, Anne Carson, Joseph Ceravolo, John Cage, Jean Cocteau, Ann Lauterbach, James Merrill, Robert Motherwell, Leslie Scalapino, Gertrude Stein, Wallace Stevens among others.

*Note:* Admission based on previously submitted samples of writing.



**\*English Crr. Beginning Fiction**

Catalog Number: 1893 Enrollment: Limited to 15.

*Lan Samantha Chang*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Fiction writing workshop with an emphasis on the short story. We begin with short exercises and move toward the completion and revision of original work. We read fiction by Chekhov, Joyce, Woolf, Barthelme, and others, and discuss the different ways in which these writers create character, movement, voice, etc. As the term continues, we'll devote increasing amounts of time to the discussion of student work.

*Note:* Written assignments include exercises, two short stories, and at least one extended revision. Admission based on previously submitted samples of writing.

**\*English Csr. Fiction Writing**

Catalog Number: 2601 Enrollment: Limited to 15.

*Katherine A. Vaz*

*Half course (fall term; repeated spring term). Tu., 2–4. EXAM GROUP: 16, 17*

An introduction to the art and craft of fiction writing. We'll address the basics of character, plot, dialogue, imagery, setting, and description with weekly exercises and informal lectures. Reading assignments will include works by Chekhov, O'Connor, Schultz, Cortázar, and Chute. Students will be required to submit two stories and to provide thorough commentary on the work of colleagues. Short stories or portions of novels are acceptable.

*Note:* Admission based on previously submitted samples of writing.

**\*English Ctr. Advanced Fiction**

Catalog Number: 7175 Enrollment: Limited to 15.

*Lan Samantha Chang*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

See English Crr. Students in the advanced class will be expected to revise work more often and to a higher standard.

*Note:* Admission based on previously submitted samples of writing. Generally for students who have previously taken fiction workshops.

**\*English Cvr. Fiction Writing**

Catalog Number: 1223 Enrollment: Limited to 15.

*Jamaica Kincaid*

*Half course (fall term; repeated spring term). W., 1–3. EXAM GROUP: 6, 7*

A seminar/workshop. Readings include Bruno Schultz, Jean Toomer, Robert Walser, and Rimbaud's *Illuminations*, among others.

*Note:* Admission based on previously submitted samples of writing. Submissions from experienced fiction writers are welcome.

**\*English Cwr. Advanced Fiction Writing**

Catalog Number: 7765 Enrollment: Limited to 15.

*Katherine A. Vaz*

*Half course (fall term; repeated spring term). Th., 3–5. EXAM GROUP: 17, 18*

Students will make weekly presentations on aspects of craft, and reading assignments will



include works by Schultz, Morrison, García Marquez, Munro, Rodoreda, and Fitzgerald. Two stories (or portions of novels) will be required along with revisions of material (to be decided on a per project basis). Typed critiques must be provided for all work of colleagues under review.  
*Note:* Admission based on previously submitted samples of writing.

### **\*English Cxr. Fiction Writing**

Catalog Number: 3331 Enrollment: Limited to 15.

*Suzanne Berne*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Fiction writing workshop with an emphasis on the short story. We will begin with short exercises and move toward the completion and revision of a short story. We will also read and discuss fiction by a variety of professional writers. As the term continues, we'll devote increasing amounts of time to the discussion of student work.

*Note:* Admission based on previously submitted samples of writing.

## ***II. Literature***

### ***Primarily for Undergraduates***

Introductory Lecture Courses (two lectures, one discussion section weekly)

### **English 10a. Major British Writers I**

Catalog Number: 8327

*Gordon Teskey*

*Half course (fall term). M., W., at 1; . EXAM GROUP: 6*

An introduction to the first eight hundred years of English literature through the reading of major works from the Anglo Saxon beginnings to *Paradise Lost*. Authors include the *Beowulf* poet (in translation), the *Sir Gawain and the Green Knight* poet, Chaucer, Spenser, Shakespeare, Kyd, Webster, Jonson, Donne, Herbert, Marvell, and Milton.

*Note:* Open to freshmen. Two lectures and one section meeting per week. Required of English concentrators. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

### **English 10b. Major British Writers II**

Catalog Number: 0550

*Daniel Albright*

*Half course (spring term). Tu., Th., at 12; . EXAM GROUP: 14*

An introduction to the study of British literature from the early 18th century to the present.

*Note:* Open to freshmen. Two lectures and one section meeting per week. Required of English concentrators. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

### **English 13. The English Bible**

Catalog Number: 6532

*Robert J. Kiely*

*Half course (fall term). M., W., at 11; . EXAM GROUP: 4*

An introduction to the Hebrew Bible and New Testament with special attention to narrative





modes, figures of the human and divine, ethical problems, and sacred mysteries.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

### English 17x. 19th-Century American Novel

Catalog Number: 9173

*John Stauffer*

*Half course (fall term). M., W., at 11;. EXAM GROUP: 4*

A study of the emergence of the novel in America as both a popular and literary genre from Crèvecoeur through Cather. Readings include Cooper, *The Last of the Mohicans*; Melville, *Moby-Dick*; Stowe, *Uncle Tom's Cabin*; Douglass, *Heroic Slave*; Alcott, *Little Women*; James, *Potrait of a Lady*; Twain, *Adventures of Huckleberry Finn*; Chesnutt, *The Marrow of Tradition*; Wharton, *The House of Mirth*; Cather, *My Ántonia*; and shorter pieces by Hawthorne, Poe, Irving, and Crèvecoeur.

### English 17y. Hawthorne and His Precursors

Catalog Number: 9964

*Elisa New*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course explores Hawthorne's major fiction and the traditions on which Hawthorne draws. The tale, the comic sketch and the romance; 17th-century texts of Puritan fervor and filial obedience; 18th-century documents of nationbuilding and expansion; 19th-century selections from the incestuous writers' culture of Cambridge and Concord—these will provide context for our discussions of ambition, art, love, lust, freedom, obligation, sincerity, fraudulence, growth and regression in Hawthorne's art.

### English 17z. American Poetry from Bradstreet through Frost

Catalog Number: 4646

*Elisa New*

*Half course (spring term). Tu., Th., 3–4:30. EXAM GROUP: 17, 18*

Close study of American poetry before WWI—from Puritan devotional verse to nationalist epics; from poetry as a public utility (for use by the fireside or gravesite, in the schoolroom, and on the political hustings) to the emergence of American poetic innovators producing lasting art. The first half of the course will consider the American poem as it met shifting historico-cultural demands; the second, as poetry itself was advanced in three major careers: Whitman's, Dickinson's, Frost's.

### English 34. Elements of Rhetoric

Catalog Number: 3820

*James Engell*

*Half course (spring term). Tu., Th., at 10;. EXAM GROUP: 12*

Classical rhetorical theory, as originating with Aristotle, in contemporary applications. The nature of rhetoric in modern culture; practical examples drawn from American history and literature 1765 to present; written exercises and attention to public speaking; briefly treats the history and educational importance of rhetoric in the West; stresses theory and practice as inseparable; non-concentrators encouraged.



## ***Undergraduate Seminars***

These introductions to the specialized study of literature are restricted to undergraduates and have enrollments limited to 15. Preference is given to English concentrators.

### **\*English 90ad. The Art of Dying**

Catalog Number: 0299 Enrollment: Limited to 15.

*Amy R. Appleford*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

How is dying an art? And how is it learned in advance? Handbooks, poems and plays from before 1600 speak, solemnly or cheerfully, of contemplating death, dying, and the dead as vital to individual and communal living. We'll examine the imagination of death in pre-modern literary culture: death as performance or aesthetics; grave humor; death in language, politics, and fashioning identity. Writings by Chaucer, Julian of Norwich, Hoccleve, Lydgate, Marlowe, Shakespeare, and Donne.

*Note:* Preference given to English concentrators.

### **\*English 90at. The American Transcendentalists**

Catalog Number: 4748 Enrollment: Limited to 15.

*Lawrence Buell*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

An intensive examination of the movement, with particular attention to its literary side and to major figures: Emerson, Thoreau, and Fuller. Some attention too will be paid to precursors and legacy, e.g. Wordsworth, Whitman, Dickinson, etc.

*Note:* Preference given to English concentrators.

### **\*English 90bp. Post-War British Poetry**

Catalog Number: 4934 Enrollment: Limited to 15.

*Peter C. Nohnberg*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A seminar devoted to reading the poetry of Larkin, Hughes, Gunn, Hill and Heaney. We will explore the practice of these poets within the traditional sub-genres of lyric, the formal arrangement of their poems within individual volumes, and their engagement with British culture and history.

*Note:* Preference given to English concentrators.

### **\*English 90cc. Calvinist Legacy in American Culture**

Catalog Number: 0007 Enrollment: Limited to 15.

*Jason W. Stevens*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

This course will cover American texts from the Puritan settlement through the present, with emphasis on the twentieth century. In addition to sermons, theology, and polemical pieces, we will read a wealth of fiction and selected poetry as well as view some relevant fiction films. We will explore the rapid growth of Calvinism into a cultural logic which has been variously revised, conserved, caricatured, repudiated, and resurrected over the course of the American past.

*Note:* Preference given to English concentrators.



**English 90fl. Sigmund Freud and C.S. Lewis: Two Contrasting World Views**

Catalog Number: 0084 Enrollment: Limited to 22.

*Armand M. Nicholi II (Medical School)*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Focuses on the "scientific" world view of Freud as key to his life and work. Examines the world view Freud attacks through readings of C.S. Lewis and the correspondence of Freud and Oskar Pfister, Swiss psychoanalyst and theologian. Themes include: purpose in life, source of morality and ethics, human sexuality, pain and suffering, happiness and reasons that unhappiness prevails, different categories of love in human relationships and "the painful riddle of death."

*Note:* Students from all concentrations welcome.

**\*English 90gh. Renaissance Epic and Romance: Sidney, Spenser, Wroth, Milton**

Catalog Number: 4145 Enrollment: Limited to 15.

*Barbara K. Lewalski*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Explores how imagined worlds are created in the great heroic narratives of Early Modern England—Sidney's *Old and New Arcadia*, Spenser's *Faerie Queene*, Lady Mary Wroth's *Urania*, and Milton's *Paradise Lost*. Explores as well how these imaginary worlds register and comment upon ideologies and institutions in the contemporary culture: e.g. political rule, sexual love, marriage, patriarchy, gender roles, religion, private selves, authorship.

*Note:* Preference given to English concentrators.

**[\*English 90hs. Satire: Augustan and Modern]**

Catalog Number: 8795 Enrollment: Limited to 15.

*Michael Shinagel*

*Half course (spring term). Hours to be arranged.*

A study of satire in poetry, prose fiction, and drama. Authors covered are Dryden, Swift, Pope, Johnson, Gay, Voltaire, Orwell, Brecht, Vonnegut, and West.

*Note:* Expected to be given in 2006–07. Preference given to English concentrators.

**\*English 90lv. Consciousness from Austen to Woolf**

Catalog Number: 3200 Enrollment: Limited to 15.

*James Wood*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

We look at the complex ways in which writers represent their characters' thought, in texts by Austen, Flaubert, James, Tolstoy, Chekhov, Giovanni Verga, and Woolf. More broadly, we trace the development of stream-of-consciousness, from Austen's incipient mastery of free indirect style, through Flaubert's more sophisticated use of it, to Woolf's full-blown inner monologues, seeing this development as not merely a fact of English and American literature, but as a phenomenon of world literature and an element of our modernity.

*Note:* Preference given to English concentrators.

**\*English 90md. Medieval Drama**

Catalog Number: 0316 Enrollment: Limited to 15.

*Amy R. Appleford*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*



This course examines dramatic texts and performance from the early Middle Ages up to and including the sixteenth century. Investigating ritual performance and the liturgy; carnival games and mummers' plays; civic drama and staging the Passion; court pageantry and spectacle; commercial theater, its reforming opponents, and the medieval stage of Marlowe and Shakespeare – we'll consider the limits of performance (in drama, ritual, magic), the implications of playing God, and suffering as spectacle.

*Note:* Preference given to English concentrators.

### **\*English 90mf. The Rise of the Novel**

Catalog Number: 6041 Enrollment: Limited to 15.

*Michael Shinagel*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

The course will examine the rise of the novel as a genre in England through a close reading of major works by Bunyan, Defoe, Richardson, and Fielding (*Pilgrim's Progress*, *Robinson Crusoe*, *Moll Flanders*, *Pamela*, *Clarissa*, *Joseph Andrews*, and *Tom Jones*).

*Note:* Preference given to English concentrators.

### **\*English 90ml. Money and Literature**

Catalog Number: 4915 Enrollment: Limited to 15.

*Marc Shell*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Money and language as means of representation, exchange, and production. Principal literary texts include works by Shakespeare, Melville, Poe, Thoreau, Ruskin, Joyce, and Martineau as well as attention to novels where a coin is the narrator and to coins inscribed with poetic epigrams. Special consideration of the economics of literature from Aristotle to Heidegger, the relationship between monetary and aesthetic form in visual arts and cinema, and various theories of money as social fiction.

*Note:* Preference given to English concentrators.

### **[\*English 90mt. Mark Twain and His World]**

Catalog Number: 4511 Enrollment: Limited to 15.

*John Stauffer*

*Half course (spring term). Hours to be arranged.*

A study of Twain's major works along with contemporary influences. Open to advanced undergraduates as well as graduate students. Readings include *Roughing It*; *Gilded Age*; *Tom Sawyer*; *Prince and the Pauper*; *Life on the Mississippi*; *Adventures of Huckleberry Finn*; *Connecticut Yankee*; *Pudd'nhead Wilson*; *Mysterious Stranger*; as well as works from Stowe, Davis, Chesnutt, Douglass, Whitman, Du Bois, Howells, London, Cable.

*Note:* Expected to be given in 2006–07. Preference given to English concentrators.

### **\*English 90ne. Rhetoric of Belief**

Catalog Number: 4681 Enrollment: Limited to 15.

*Robert J. Kiely*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

An examination of the literature of religious, political, or ethical commitment. Readings from Thoreau, Lincoln, Gandhi, Martin Luther King, Jr., Hannah Arendt, Gary Snyder, Rachel



Carson, Primo Levi, Dorothy Day, Thomas Merton, and others.

*Note:* Preference given to English concentrators.

**\*English 90nn. Nonfiction Novel**

Catalog Number: 4416 Enrollment: Limited to 15.

*J. D. Connor*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines seemingly inevitable suspensions of disbelief from Defoe to Eggers. How is it possible to confuse a novel with its external world? What happens when journalism and fiction merge?

Course plays close attention to the institutions of veracity (medical, historical, journalistic, legal) and their usual documents (the case history, the cache, the eyewitness account, testimony).

*Note:* Preference given to English concentrators.

**[\*English 90op (formerly English 186c). On Reading Poetry]**

Catalog Number: 5289 Enrollment: Limited to 15.

*Jorie Graham*

*Half course (spring term). Hours to be arranged.*

Explores what work poems undertake and what work they therefore ask of the reader. We examine one primary poem (by a different poet) each week. Two short papers and some supplementary reading required.

*Note:* Expected to be given in 2006–07. Preference given to English concentrators.

**\*English 90ow. Oscar Wilde: Artist, Martyr, Celebrity**

Catalog Number: 4506 Enrollment: Limited to 15.

*Matthew Kaiser*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines the plays, philosophical writings, poetry and fiction of one of the nineteenth century's most intriguing writers. Explores Wilde's life, legend, influences and his rebirth in the twentieth century as a "gay martyr." In order to understand how literary celebrities are made, and how the literary canon is shaped and expanded, we will investigate theoretical and critical responses to Wilde, as well as cinematic and literary representations of his life and art.

*Note:* Preference given to English concentrators.

**\*English 90pa. Poets of New England**

Catalog Number: 0357 Enrollment: Limited to 15.

*Elisa New*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Intense study of two poets—Dickinson and Frost—with particular attention to the role of New England as a shaping force. Touching upon other New England poets (Taylor, Robinson, Lowell) and surveying extra-poetic discourses (the sermon, vernacular speech, folkways, statecraft, natural history), our discussions will center on the most private (Dickinson) and most public (Frost) of New England's poets, as we trace both eccentricity and representativeness within an evolving American literature, and, within the tradition of English verse.

*Note:* Preference given to English concentrators.



**\*English 90pb. Dramatic Structure and Analysis**

Catalog Number: 4661 Enrollment: Limited to 15.

*Robert Scanlan*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Introduces the Plot-Bead technique for analyzing and/or constructing artistic forms that are performance events. Several artworks, most of them plays, but some of them poems and one of them a musical composition, are studied in detail in the light of depth action analysis and codification of the artifact's time-form in a plot-bead diagram. The roots of these analytical techniques (which have practical utility for artists) are Aristotelian, but we will see them reflected in 20th-century practice.

*Note:* Preference given to English concentrators.

**\*English 90ph. Poetry and Philosophy**

Catalog Number: 4858 Enrollment: Limited to 15.

*Leland P. de la Durantaye*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Plato referred to "the old quarrel between philosophy and poetry." If poets will show us that poetry is not only "pleasant" but "good for us," we will gladly admit them." If not, he says, we must "warn its hearers to fear its effects on the constitution of their inner selves." This course will examine more and less quarrelling poets and philosophers. Readings may include Plato, Aristotle, Spenser, Milton, Kant, Coleridge, Stein, William James, Eliot, Bergson, Adorno, Beckett, Heidegger, and Celan.

*Note:* Preference given to English concentrators.

**\*English 90pp. Victorian Poetry and Nonfiction Prose**

Catalog Number: 3597 Enrollment: Limited to 15.

*Matthew Kaiser*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

An examination of poetry and nonfiction prose by Victorian writers. Authors include Carlyle, Mill, Tennyson, Robert Browning, Elizabeth Barrett Browning, Martineau, Ruskin, Arnold, Meredith, D. G. Rossetti, Christina Rossetti, Swinburne, Pater, Michael Field, Mona Caird, and Hopkins.

*Note:* Preference given to English concentrators.

**\*English 90qn. Navigating Ulysses**

Catalog Number: 8643 Enrollment: Limited to 15.

*Peter C. Nohrnberg*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

James Joyce's modernist epic supplemented by readings of significant intertexts (*The Odyssey*, *Hamlet*) along with works of secondary criticism. Attention directed to formal aspects of this difficult work as well as to its thematic engagement with important issues of its time, including: Irish nationalism and British colonialism, feminism, the advent of advertising, and the rise of consumer culture.

*Note:* Preference given to English concentrators.





**\*English 90sb. Samuel Beckett's Plays and Prose**

Catalog Number: 3487 Enrollment: Limited to 15.

*Robert Scanlan*

*Half course (spring term). Th., 2–5. EXAM GROUP: 16, 17, 18*

Studies systematically the arc of Samuel Beckett's literary career, with particular emphasis on Beckett's stage and video plays. The course proposes the idea of a "stable habitation for the Self" as one way of understanding both Beckett's thematic *matière* and his astonishing aesthetic innovations in three media: stage, page, and video screen. Video resources supplement reading and discussion of texts, and local productions of the plays are studied when available.

*Note:* Preference given to English concentrators.

**\*English 90tw. Transatlantic Literature**

Catalog Number: 3077 Enrollment: Limited to 15.

*John M. Picker*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Considers concurrent trends and developments in American and British literary genres across the long 19th century. The focus is on transatlantic hauntings. We trace the development of the gothic phenomenon in texts that pose lingering questions about the objectivity and the nature of perception, psychology, gender, and cross-cultural influence. Readings include fiction, poetry, and non-fiction by Irving, Poe, Tennyson, the Brownings, Dickens, Hawthorne, James, and others.

*Note:* Preference given to English concentrators.

**\*English 90tx. Literatures of Travel in the 18th Century**

Catalog Number: 5301 Enrollment: Limited to 15.

*Lynn M. Festa*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Eighteenth-century travel writings, from fictional adventures and scientific voyages to philosophical utopias and fantastical "true histories." Topics include: empire and domesticity; tourism and national identity; narrative continuity and the picaresque; natural history and scientific imperialism. Writings by Defoe, Swift, Boswell, Equiano, Sterne, Mary Wortley Montagu's *Turkish Embassy Letters*, and Mungo Park's *Travels to the Interior of Africa*.

*Note:* Preference given to English concentrators.

**\*English 90ui. The Indian Novel in English**

Catalog Number: 4187 Enrollment: Limited to 15.

*Sharmila Sen*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

The Indian novel in English has been castigated for Babu English, for elite preoccupations, and for purveying spicy postcolonial chic. It also appears with dizzying frequency in bookstore windows, on syllabi, and at the top of literary prize lists. While charting the evolution of the Indian English novel from nineteenth-century "false starts" to the late twentieth-century boom period, we shall read such authors as Ali, Chatterjee, Chaudhuri, Desai, Ghosh, Narayan, Roy, Rushdie, and Syal.

*Note:* Preference given to English concentrators.



## \*English 90va. Victorian Visualities

Catalog Number: 4968 Enrollment: Limited to 15.

Michele C. Martinez

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

This course will explore the visuality of Victorian narrative and lyric in light of aesthetic theory and material culture (e.g., the illustrated book, art exhibition, gothic revivalism and photography). Writers and artists include Tennyson, Brontë, Ruskin, the Rossettis, Morris, Hardy, Pater, Baudelaire, James, Whistler, Cameron and Thomson.

*Note:* Preference given to English concentrators.

**[\*English 90vh. Harlem Renaissance]**

Catalog Number: 3628 Enrollment: Limited to 15.

*Henry Louis Gates, Jr.*

*Half course (spring term). Hours to be arranged.*

An examination of the period of unprecedented African-American literary flowering during the 1920s and 1930s. Special attention will be given to the following: Harlem and other cultural centers; dialect in poetry and prose; the impact of women authors, editors, and critics; and the central positioning of the Harlem Renaissance in the African-American literary tradition.

*Note:* Expected to be given in 2006–07. Preference given to English concentrators.

**\*English 90vn. Vladimir Nabokov**

Catalog Number: 6677 Enrollment: Limited to 15.

*Leland P. de la Durantave*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

This seminar will examine the depth and breadth of the works of Vladimir Nabokov. Special attention paid to those works written directly into English. Special consideration will be accorded to Nabokov's irreverent and idiosyncratic opinions on the task of the critic. Readings will include: *Lolita*, *Speak, Memory*, *Pale Fire*, *Pnin*, *Ada*, or *Ardor*, *The Real Life of Sebastian Knight*, *Bend Sinister*, and *The Gift*.

*Note:* Preference given to English concentrators.

**[\*English 90wk. Wordsworth, Keats, and Clare]**

Catalog Number: 8117 Enrollment: Limited to 15.

*Elaine Scarry*

*Half course (spring term). Hours to be arranged.*

The forest floor (moss, violets) and woodland canopy (birdsong, bird nest) lead us to a study of perception, cognition, creation, poetic form (song, sonnet, ballad, ode, sonnet sequence, romance), and prose form (letter, journal, preface) in these three poets.

*Note:* Expected to be given in 2006–07. Preference given to English concentrators.

**\*English 90wo. Writing the Ocean**

**Catalog Number: 7815 Enrollment: Limited to 15.**

Amitav Ghosh

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Mutiny, flogging, cannibalism: life at sea has often driven human beings to extremes. Along with an introduction to nautical literature, this seminar-workshop offers an opportunity to create a



substantial body of original work that uses the ocean as setting, background, or metaphor.

*Note:* Preference given to English concentrators.

***Tutorials, for Undergraduates Only***

**\*English 91r. Supervised Reading and Research**

Catalog Number: 1464

*Gordon Teskey and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Individual instruction in subjects of special interest that cannot be studied in regular courses.

*Note:* A graded course. May not be taken more than twice and only once for concentration.

**\*English 97. Seminar—Sophomore Year**

Catalog Number: 0280

*Gordon Teskey and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Introduction to methods of literary analysis. Selected texts in English and American literature studied along with readings in theory and criticism. Required of concentrators in the sophomore year.

**\*English 98r. Tutorial—Junior Year**

Catalog Number: 3831

*Gordon Teskey and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised small group tutorial in the study of English and American literature.

*Note:* Limited to honors concentrators.

**\*English 99r. Tutorial—Senior Year**

Catalog Number: 3901

*Gordon Teskey and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised individual tutorial in an independent scholarly or critical subject.

*Note:* Two terms required of all thesis honors seniors. To enroll, students must submit for approval a Thesis Proposal.

*Prerequisite:* Satisfactory completion of one term of English 98r, completion of an undergraduate seminar (90-level) taken junior year, and faculty approval of proposed thesis topic.

***For Undergraduates and Graduates***

**English 101. The History and Structure of the English Language**

Catalog Number: 1987

*Daniel G. Donoghue*

*Half course (spring term). Tu., Th., at 1; . EXAM GROUP: 15*

A survey of the changes in English phonology, morphology, syntax, spelling, and vocabulary, from the earliest times to the present. Along the way, we explore such topics as attitudes toward



language, the impact of political and economic changes, literacy, attitudes toward grammar, the rise of American English, language and social class, and language and gender.

*Note:* No previous knowledge of linguistics, Anglo-Saxon, or Middle English is required.

### **English 102a. Anglo-Saxon Language and Culture: Historicizing the Past**

Catalog Number: 0151

*Daniel G. Donoghue*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12*

How did the Anglo-Saxons interpret their past? How do we in turn interpret their culture? An introduction to the basic grammar of Old English will move hand in hand with translations, at first simple but progressively more challenging, which come from various historical texts.

Secondary readings provide an opportunity to consider how we today appropriate the medieval past.

### **English 103g. Anglo-Saxon Language and Culture: Working with Manuscripts**

Catalog Number: 0326

*Daniel G. Donoghue*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

The task of translation will be supplemented by consistent attention to the manuscript contexts of Old English literature. The texts will include selections from the Anglo-Saxon Chronicle, *Genesis*, the Exeter Book *Riddles*, *Beowulf*, and others. The course will guide students through basic principles of manuscript study and will culminate in a collaborative edition of an Old English text.

*Prerequisite:* Honors grade in English 102 or the equivalent.

### **English 112. The Invention of Middle English Literature**

Catalog Number: 8099

*James Simpson*

*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

Many ethically challenging, politically daring texts written in the period 1330-1400 invented a literary space of extraordinary freedom. Such texts establish the very possibility of writing literature of high ambition in English; they create a space for women authors, for religious reform, and for a literature of profound psychic range and historical depth. Chaucer, who does all these things, forms the centre, but romances, Langland, and Julian of Norwich each make decisive contributions.

### **English 115b. Chaucer: *The Canterbury Tales***

Catalog Number: 2945

*Nicholas Watson*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

A study of the most famous work of English literature before Shakespeare, both as a work of art and as a product of its place (London) and time (the 1390s).

### **English 122. Tragedy after Hamlet**

Catalog Number: 1533

*Blair Hoxby*



*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

The 17th century marks a high point of English tragedy. We will set a few of Shakespeare's plays amid the best tragedies written from Kyd to Addison. These ask a common set of questions. What was the grandeur of the ancients? What is virtue? Does suffering generate insight? Why revenge? Attention to generic conventions, performance, and changing ideas of the spirit of tragedy. Authors include Shakespeare, Jonson, Webster, Beaumont and Fletcher, Middleton, Milton, Dryden.

### English 124g. Shakespearean Genres

Catalog Number: 6690

*John Parker*

*Half course (fall term). Tu., Th., at 10; . EXAM GROUP: 12*

We'll read major plays from each of the genres in which Shakespeare worked, comparing them with examples from other Renaissance playwrights in hopes of determining to what extent Shakespeare typifies and to what extent he defies generic convention. Readings to include *A Midsummer Night's Dream*, *The Merchant of Venice*, *Othello*, *Hamlet*, *The Winter's Tale*, and *The Tempest*.

*Note:* This course, when taken for a grade, meets the Core area requirement for Literature and Arts A.

### English 129. Some Uses of Renaissance Pastoral

Catalog Number: 7676

*Barbara K. Lewalski*

*Half course (spring term). Tu., Th., 11:30–1 and a weekly section to be arranged. EXAM GROUP: 13, 14*

Shepherds, shepherdesses and other topics of the pastoral mode are everywhere in Early Modern literature, sometimes imagining Golden Age ideality but often figuring (according to contemporaries) persons and events too dangerous to treat directly. We examine the place and uses of pastoral in a number of genres: songs, eclogues, funeral elegy, romance, landscape poems, country-house poems, prose romance (Sidney's *Arcadia*), epic (Spenser's *Faerie Queene* VI; Milton's *Eden*), and drama (Shakespeare's *As You Like It*).

### English 131. Milton: Major Poetry and Prose

Catalog Number: 8005

*Barbara K. Lewalski*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

A comprehensive study of Milton's career. We will concentrate on his poetry (lyric, dramatic, and epic) but will also pay close attention to his major prose tracts. *Paradise Lost* will receive extended treatment.

### English 141. The 18th-Century Novel

Catalog Number: 8683

*Leah Price*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

The rise of the novel, seen through eighteenth-century fiction by Defoe, Richardson, Fielding, Sterne, Radcliffe, and Jane Austen, plus films, paintings, and engravings, magazine articles, and



excerpts from literary and social theory. Issues include genre (what differentiates novels from epics, romances, newspapers, correspondences, biography, pornography?), modernity (what was novel about the novel?), gender, reading, and pleasure. Lecture-discussion format.

### **English 146. Sex and Sensibility in the Enlightenment**

Catalog Number: 9957

*Lynn M. Festa*

*Half course (spring term). M., W., at 11;. EXAM GROUP: 4*

How Enlightenment theories of moral sensibility and physical susceptibility shaped categories of sex and gender. Topics include theories of sexual difference and sexual identity; the rise of the conjugal couple; libertine writings and the “invention of pornography.” Readings range from the scandalous Eliza Haywood to the respectable Samuel Richardson, from Cleland’s *Memoirs of a Woman of Pleasure* to Austen’s *Sense and Sensibility*, including conduct books, medical treatises and trial records.

### **English 150. British Romantic Poetry**

Catalog Number: 5274

*Ann Wierda Rowland*

*Half course (spring term). M., W., at 10. EXAM GROUP: 3*

Readings in the poetry of Smith, Blake, Burns, Scott, Wordsworth, Coleridge, Byron, Hemans, Shelley, and Keats.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

### **English 151. The 19th-Century Novel**

Catalog Number: 8396

*Leah Price*

*Half course (spring term). Tu., Th., at 2 and a weekly section to be arranged. EXAM GROUP: 16*

How and why the novel became the central genre of modern culture. Authors include Austen, Brontë, Dickens, Trollope, Eliot, Stoker, and Conan Doyle.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

### **English 153. Advanced Study of Narrative: Plot, Agency, and Character**

Catalog Number: 5383

*Philip J. Fisher*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Using the novels of Henry James and Jane Austen to examine modern accounts of plot, agency, person, strategy, consciousness in literary theory, game theory and the philosophy of agents, acts, and complete events.

### **English 155. Victorian Modernity**

Catalog Number: 4216

*John M. Picker*

*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16*



This survey of English literature and culture from 1830-1901 considers the tensions of a transitional era that flirted with and feared modernity. We explore writings on subjects that shaped the modern age: faith and doubt, bodies and machines, new technologies and media, science, sex and gender, empire, the function of art, degeneration. Genre-crossing texts from Carlyle, Dickens, Tennyson, Darwin, Eliot, Martineau, Arnold, Ruskin, Wilde, others.

### **English 156x. Imperialism and Victorian Literature**

Catalog Number: 0988

*Matthew Kaiser*

*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

By 1830 a quarter of the world population lived within British territories. For some Victorians, colonial expansion constituted a moral imperative, a mission to "civilize" the world. Others were ambivalent about the empire that Britain had created. This course explores how Victorian writers viewed the world beyond their shores: how they perceived colonial possessions, how they justified or confronted imperialist violence, how they viewed competing and emergent imperial powers.

### **English 157. The Classic Phase of the Novel**

Catalog Number: 4786

*Philip J. Fisher*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

A set of absolute works of art produced at the peak of the novel's centrality as a literary form: *Pride and Prejudice*, *Madame Bovary*, *Anna Karenina*, *The Brothers Karamazov*, *Buddenbrooks*, *Great Expectations*, *L'Assommoir*. Society, family, generational novels and the negations of crime and adultery; consciousness and the organization of narrative experience; the novel of ideas and scientific programs; realism, naturalism, aestheticism and the interruptions of the imaginary.

### **English 159. The Reflection of Reality: Novels of the 19th and 20th Century**

Catalog Number: 4598

*Leland P. de la Durantaye*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

This course will focus on the reflection and refraction of reality in modern novels of the last century and a half. A number of famous novels will be carefully studied for their conception of reality, and the best means of conveying that reality to the reader. We will read novels by Flaubert, George Eliot, Henry James, Virginia Woolf, Thomas Mann, Samuel Beckett, Vladimir Nabokov, Philip Roth, and Ian McEwan.

### **English 160. Modern British Novel: James to Present**

Catalog Number: 7052

*Philip J. Fisher*

*Half course (spring term). M., W., at 11;. EXAM GROUP: 4*

From James' *Wings of the Dove* to Ian McEwan's *Atonement*. Topics include: modernism and its aftermath; the novel of consciousness; memory, time, and history; experimentation and its renormalization. Novels include, in addition to James and McEwan: Conrad, *Heart of Darkness*;



Lawrence, *The Rainbow*; Woolf, *To the Lighthouse*; Naipaul, *A House for Mr. Biswas*; Lessing, *The Fifth Child*; Coetzee, *Disgrace*; Sebald, *The Emigrants*.

**English 160c. Modern British Fiction: Conrad to Beckett**

Catalog Number: 7772

*Peter C. Nohrnberg*

*Half course (fall term). M., W., at 12. EXAM GROUP: 5*

A survey of major works of British fiction written in the first half of the twentieth century by Kipling, Conrad, Forster, Ford, West, Woolf, Joyce, Butts, and Beckett, among others. Topics covered include: innovations in narrative form, the representation of individual consciousness and identity, responses to imperialism, the Great War, mass culture, and the rise of feminism.

**English 161m. 20th-Century Irish Literature**

Catalog Number: 4874

*Peter C. Nohrnberg*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A survey of plays, poetry, essays and fiction written from the beginning of the Irish Revival to the time of the Troubles in Northern Ireland. Authors include Synge, Yeats, Lady Gregory, Joyce, Beckett, O'Casey, Flann O'Brien, Friel, Trevor, and Heaney. Readings will focus on the preoccupation of these writers with Irish history, myth, and the literary construction of a national identity.

**[English 162m. Modernism as Theatre]**

Catalog Number: 8569

*Daniel Albright*

*Half course (fall term). Hours to be arranged.*

Our theme is the evolution of the modern theatre—its distentions and constrictions, its imitations of modern life and withdrawals into abstraction, its hankerings for epic breadth and lyric intensity. We consider the theatre in the context of literature, music, visual arts, and theories of acting. Plays by Wilde, Yeats, Apollinaire, Eliot, Brecht, Stein, Beckett, and Stoppard; and performance exercises. Our final project realizes Artaud's project for *The Conquest of Mexico*. *Note:* Expected to be given in 2006–07.

**[English 165. Joyce, Modernism, and Aestheticism]**

Catalog Number: 1827

*Philip J. Fisher*

*Half course (spring term). Hours to be arranged.*

Topics include: modernism; aesthetic experience; the life of art; the city; and the moment. Centering on Joyce's *Dubliners*, *Portrait of the Artist*, and *Ulysses* but also novels by Proust, Woolf, and Kawabata.

*Note:* Expected to be given in 2006–07. Graduate section offered.

**English 166x. The Postcolonial Classic**

Catalog Number: 4236

*Homi K. Bhabha*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*





This lecture course will explore the idea of a classic work in the postcolonial, global era. It surveys literary, cultural, and political works that illustrate the relationship between aesthetic values and questions of cultural citizenship. Works read may include Gandhi, Fanon, Sartre, Mandela, Rudyard Kipling, Joseph Conrad, James Baldwin, Toni Morrison, Nadine Gordimer, Salman Rushdie, V.S. Naipaul, John Coetzee.

### **English 167p. Postcolonial Narratives**

Catalog Number: 2511

*Sharmila Sen*

*Half course (spring term). Tu., Th., at 12 and a weekly section to be arranged. EXAM GROUP: 14*

An investigation of the major concerns, paradigms, and quarrels within postcolonial literary studies. While reading authors such as Achebe, Conrad, Dabydeen, Dangarembga, Ghosh, Phillips, Rushdie, and Salih, we shall pay close attention to the continuities and the discontinuities of the postcolonial experience as represented in literary texts from Africa, the Caribbean, and South Asia.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

### **English 168d. Postwar American and British Fiction**

Catalog Number: 8250

*James Wood*

*Half course (spring term). M., W., at 2; . EXAM GROUP: 7*

We examine a range of works, including novels and stories by Saul Bellow, Philip Roth, Raymond Carver, Henry Green, Muriel Spark, Ian McEwan, Penelope Fitzgerald, and Martin Amis. Our attempt will be to situate these books in their larger historical traditions, while emphasizing that we are reading a living literature. Some of the selected authors may visit and address our class.

### **English 168x. American Cultures and Countercultures of the Sixties**

Catalog Number: 4616

*J. D. Connor*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Beyond the received mythologies of Woodstock, *Easy Rider*, and “tenured radicals” critiques, the sixties marked a transformation of the relationship between the vernacular and the academic. Along this line, where theories of cultural opposition become youth practice and vice versa, we find hybrid and hyper-realisms exemplified in Albee, Barth, The New Journalism (Capote, Didion, Mailer), alternative comix, Photorealism, Warhol, *cinéma vérité* (*Don’t Look Back*, *Gimme Shelter*), happenings, the Black Arts Movement, and Robert McNamara’s operations research.

### **[English 169. The Road to Postmodernism]**

Catalog Number: 8840

*Louis Menand*

*Half course (spring term). Hours to be arranged.*

How we arrived at current assumptions about art and literature. We will discuss the development



of modernism as a dominant cultural mode, challenges from other high-art schools and from popular and middlebrow culture, the rise and fall of critical schools such as the New Criticism and structuralism, and the emergence of the concept of postmodernity. The period covered is from, roughly, 1920 to 1980; readings consist of short literary works and critical and theoretical essays.

*Note:* Expected to be given in 2006–07.

### **English 177. Art and Thought of the Cold War**

Catalog Number: 7704

*Louis Menand*

*Half course (spring term). M., W., at 12. EXAM GROUP: 5*

Culture of the early cold war (1945-1965) in the context of political events and intellectual developments. We will be particularly interested in the unintended consequences of Cold War policies and in trans-Atlantic cultural exchange. Subjects include the literature of totalitarianism, Abstract Expressionism, the Beats, confessional poetry, the philosophy of higher education, the Warren Court, film noir, and the French New Wave.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

### **[English 178x. The American Novel: Dreiser to the Present]**

Catalog Number: 2168

*Philip J. Fisher*

*Half course (fall term). Hours to be arranged.*

A survey of the 20th-century novel, its forms, patterns of ideas, techniques, cultural context, rivalry with film and radio, short story, and fact. Dreiser, *Sister Carrie*; Wharton, *The House of Mirth*; Jack London, *Stories*; Anderson, *Winesburg, Ohio*; Hemingway, *A Farewell to Arms* and stories; Faulkner, *The Sound and the Fury* and stories; Fitzgerald, *Tender is the Night*; Ellison, *Invisible Man*; Nabokov, *Lolita*; Bellow, *Herzog*; Pynchon, *The Crying of Lot 49*; DeLillo, *White Noise*.

*Note:* Expected to be given in 2006–07.

### **English 180. Modern American Crime Narratives**

Catalog Number: 4468

*Jason W. Stevens*

*Half course (spring term). Tu., Th., at 11 and a weekly section to be arranged. EXAM GROUP: 13*

We will cover American crime narratives, beginning with nineteenth-century forms (classical detective fiction, dime novel adventures, and muckraking city novels) but emphasizing their twentieth-century successors—the hard-boiled and noir fiction that flourished between the Jazz Age and the Cold War as well as the police procedural and the true crime novel. Popular texts will be approached as examples of craft art which have provided paradigms for major American authors, including Faulkner, Fitzgerald, and Mailer.

### **English 184. Fundamentals of Lyric Poetry**

Catalog Number: 8147

*Peter Sacks*



*Half course (spring term). W., 1–3; . EXAM GROUP: 6, 7*

Basic elements of lyric poetry, both formal and thematic. Questions of lineation, prosody, stanzaic identity, free verse, syntax, matters of place, temporality, self-revision. Representations of poetic vocation, work, desire, history, nature, etc. Readings primarily from *The Norton Anthology of Poetry*.

### **English 185. Wit and Humor**

Catalog Number: 3941

*Leo Damrosch*

*Half course (fall term). Tu., Th., 1-2. EXAM GROUP: 15*

Emphasizing wit and humor rather than “comedy” as classically understood, the course considers selected texts and films (for example, Mark Twain, P.G. Wodehouse, Dave Barry, *Dr. Strangelove*, *Annie Hall*, *Monty Python*), in the light of theoretical studies by psychologists, sociologists, and critics who have tried to explain why people laugh, want to laugh, and pay to be made to laugh.

*Note:* Non-English Department students welcome.

### **English 188. Native American Literature: Narrations of Nationhood**

Catalog Number: 0079

*Lisa T. Brooks*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Survey of Native American literature that frames indigenous nationhood as a continuing communal process. Reaching across temporal boundaries from the literature of the oral tradition to the texts of the encounter and protest writing, to contemporary poetry, fiction, and political prose, this course provides substantial grounding in the multifaceted literatures and cultures of Native America. Organized geographically, with a focus on the emergence of literary traditions in particular regions and places.

### **English 189. The Novella**

Catalog Number: 4246

*John M. Picker*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

In their concentration of focus, their commitment to ambiguity, and the techniques they use to complicate perspective and emphasize selectivity, novellas become miniature testing grounds for many of the governing concerns of fiction of our time. Readings in primarily British and American texts from the last two centuries with some Continental works as well.

### **English 190x. Philosophy and Literature: The Problem of Consent**

Catalog Number: 0561

*Elaine Scarry*

*Half course (spring term). M., W., at 2; M., at 3; W., at 3. EXAM GROUP: 7*

“Consent” in literature, medicine, political philosophy, and law. Four major topics are freedom of movement (Locke’s *Second Treatise*, Dickens’s *A Tale of Two Cities*, DeQuincey’s *English Mail-Coach*, Harlan’s dissent in *Plessy v. Ferguson*), constitution and contract-making (European city contracts, Shakespeare’s *A Midsummer Night’s Dream*, *Federalist Papers*), the grounding of consent in the body (Plato’s *Crito*, Euripides’ *Hecabe*, Donne’s poetry, Rousseau’s



*Social Contract*, contemporary medical case law), and decision making in war (Homer's *Iliad*, Sophocles' *Philoctetes*).

### **English 193. An Introduction to 20th-Century Literary Theory**

Catalog Number: 8913

*Leland P. de la Durantaye*

*Half course (spring term). Tu., Th., at 1; . EXAM GROUP: 15*

An introduction to 20th-century literary theory. We examine the principal trends in 20th-century literary criticism, including New Criticism, phenomenological criticism, psychoanalytical criticism, semiology, the Frankfurt school, French structuralist and post-structuralist thought, new historicism, and multiculturalism. Readings may include Auerbach, Adorno, Curtius, de Man, Derrida, Foucault, Spitzer, Gadamer, Frye, Eco, Freud, Lacan.

### **English 195x. Contemporary African American Literature**

Catalog Number: 0098

*Glenda R. Carpio*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Discussion of African American novels, plays and poetry produced since the 1960s. Among other topics, we will discuss the Black Arts Movement, the renaissance of black women authors in the 1970s, the rise of the neo-slave narrative, and black postmodern texts. Major authors will include but not be limited to Ishmael Reed, Charles Johnson, Toni Morrison, Samuel Delaney, Adrienne Kennedy, Gwendolyn Brooks, Rita Dove, Suzan-Lori Parks, and Colson Whitehead.

### **English 196. Literature of Migration and Ethnicity: The Case of the United States**

Catalog Number: 4750

*Werner Sollors*

*Half course (spring term). M., W., (F.), at 10; . EXAM GROUP: 3*

How have migration and ethnic diversity affected the American literary landscape? Is the stress on ethnic diversity a form of resistance to, or a feature of modernity? Such questions, complemented by ethnic theory, inform discussions of books ranging from *The Life Stories of Undistinguished Americans* to Mary Antin's *The Promised Land* and of authors from Richard Rodriguez and Jamaica Kincaid to Gish Jen and Sherman Alexie.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

### **English 197. Religion and American Film**

Catalog Number: 4712

*Jason W. Stevens*

*Half course (fall term). Tu., Th., at 12; . EXAM GROUP: 14*

Religion has proven a profitable, controversial subject in American cinema. This course will introduce students to the topic by combining narrative analysis, film history, and religious study. Areas of inquiry will include: how has the cinema's illusionism enhanced the revivalistic power of traditional iconography? How have films shaped Americans' perceptions of religious nationalism and empire or supported the belief in a civil religion or reinforced the ideology of a Judeo-Christian consensus?



**\*English 198x. Literary Ecosystems**

Catalog Number: 0250 Enrollment: Limited to 30.

*Amitav Ghosh*

*Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8*

From the extermination of the dodo to the search for the birthplace of the eel, writers have been writing about the relationship between human beings and the natural world for centuries. This lecture-workshop offers an immersion in environmental writing, in fiction and non-fiction, from the 18th century onwards. Participants will be expected to develop writing projects of their own, centered on environmental themes, and in forms of their choosing.

***Other Courses Offered by Members of the English Department***

**African and African American Studies 116. Autobiography and Literary Imagination**

**African and African American Studies 122. Caribbean Women Writers**

**African and African American Studies 131. African-American Literature to the 1920s**

**\*American Civilization 201 (formerly \*American Civilization 371). Themes in the History of American Civilization**

**[\*Comparative Literature 172 (formerly \*Comparative Literature 269). Paralysis]**

**[\*Comparative Literature 283. Language War: Seminar]**

**[Dramatic Arts 64. Dramatic Literature from the Greeks to Ibsen]**

**[Folklore and Mythology 143. Imagining Slavery]**

**\*Freshman Seminar 32p. Charles Dickens**

**\*Freshman Seminar 33x. Complexity in Works of Art: *Ulysses* and *Hamlet***

**\*Freshman Seminar 38e. Madness and the Creative Imagination: Literary and Biomedical Perspectives**

**\*Freshman Seminar 38j. Medicine and Literature**

**\*Freshman Seminar 39t. Culture and Its Wars**

**\*Freshman Seminar 39y. Poetry and the Ballad**

**\*Literature 119. Comparative Arts**

**[Literature and Arts A-11. Arthurian Literature: Epic versus Romance]**

**[Literature and Arts A-22. Poems, Poets, Poetry]**

**[Literature and Arts A-58. Ethnicity, Modernity, and Modernism in 20th-Century Literature, Art, and Culture]**

**[Literature and Arts A-64. American Literature and the American Environment]**

**[Literature and Arts A-72. The Enlightenment Invention of the Modern Self]**

**Literature and Arts A-86. American Protest Literature from Tom Paine to Tupac**

**[Literature and Arts C-56. Putting Modernism Together]**

**Music 217r. 19th-Century Music: Seminar**

**Visual and Environmental Studies 172h (formerly 171x). Histories of Cinema II: Sound, Space, and Image to 1960**

**Visual and Environmental Studies 195. The Contemporary Hollywood Cinema**

***Primarily for Graduates***

**\*English 201. Images, Idolatry and Iconoclasm, 1350-1600: Graduate Seminar**

Catalog Number: 4547



*James Simpson*

*Half course (fall term). Tu., 11–1. EXAM GROUP: 13, 14*

Images find a very direct way into the depths of the psyche; they provoke both love and fear. Through literary texts, we examine the function of images from the fourteenth to the sixteenth centuries, in both erotic and religious traditions.

**\*English 209. Necessary Truths: Piers Plowman and Christian Pedagogy: Graduate Seminar**

Catalog Number: 6160

*Nicholas Watson*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

A study of the intense debate over what the unlearned must know to be saved, and its impact on the rise of vernacular Christian writing. Focuses on *Piers Plowman*, and several shorter texts.

**\*English 214. Spenser and Milton's Continental Sources: Graduate Seminar**

Catalog Number: 6103

*Gordon Teskey*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

We will read (in translation) Italian epic poems by Boiardo, Ariosto, and Tasso. We will also read Camoens' Portuguese epic, *The Lusiads*. Participants must know *The Faerie Queene* and *Paradise Lost*.

**\*English 225. Shakespeare and Authority: Graduate Seminar**

Catalog Number: 5090

*Stephen J. Greenblatt*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Though written for a state-censored theater, Shakespeare's plays boldly explore the nature and limits of authority. Special focus on the tragedies, supplemented by readings in both Renaissance (Filmer, Hobbes, etc.) and contemporary (Schmitt, Agamben, etc.) political theory.

**\*English 228y. Milton and His Contemporaries: Literature and Politics in the Era of the English Revolution (1629-1674): Graduate Seminar**

Catalog Number: 1277

*Barbara K. Lewalski*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Milton's poetry and prose, examined in relation to other texts that refract the experience and culture of the period: e.g., the poetry of Vaughan, Herrick, the Cavaliers, and Marvell; histories, sermons, political tracts, autobiography, biography.

**\*English 247. Johnson and Rousseau: The Rhetoric of Wisdom: Graduate Seminar**

Catalog Number: 4808

*Leo Damrosch*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Close study of two major writers, one "conservative" and one "radical," who became celebrity personalities, and who employed a wide range of genres to address the challenges of the emerging modern world.





**\*English 251. Comparative Romantic Theory: Graduate Seminar**

Catalog Number: 5675

*James Engell*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Key romantic topics that remain relevant to literature and art e.g., symbol, language, aesthetics, nature (“green” romanticism), history, irony, gender. Coleridge, Wordsworth, Shelley, Kant, Schelling, Schiller, Emerson, possibly Fuller, and Poe; others and recent critics as well.

**\*English 256n. Theory and Practice of the Victorian Novel: Graduate Seminar**

Catalog Number: 4996

*Leah Price*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

The theory and practice of the Victorian novel. Fiction by Austen, Gaskell, Dickens, Thackeray, Eliot, and James, read against Victorian criticism and modern theories of the novel.

**\*English 264x. Sensation and Moral Action in Thomas Hardy: Graduate Seminar**

Catalog Number: 2714

*Elaine Scarry*

*Half course (fall term). M., 12–2. EXAM GROUP: 5, 6*

Hardy’s novels, stories, and narrative poems will be approached through the language of the senses (hearing, vision, touch) and through moral agency (philosophic essays on “luck” and “action”).

*Note:* Open to upper-level undergraduates with permission of instructor.

**\*English 271. Poetry in America: Graduate Seminar**

Catalog Number: 3659

*Elisa New*

*Half course (fall term). Th., 11–1. EXAM GROUP: 13, 14*

Exploring the relationship between poems and their contexts, we survey a range of historical, cultural and critical contexts fruitfully engaged by critics of the American poem as well as some critical and ideological implications.

**\*English 276. Space, Place, and Imagination: Graduate Seminar**

Catalog Number: 4162

*Lawrence Buell*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Major works from Thoreau, Whitman, and Melville to the present, most but not all American, considered, with reference to phenomenology of place, cultural anthropology, social space discourse, landscape and gender studies, urban and ecocritical theory.

**[\*English 276x. African-American Literary Tradition: Graduate Seminar]**

Catalog Number: 3536

*Henry Louis Gates, Jr.*

*Half course (spring term). Hours to be arranged.*

An exploration of the emergence and formal development of the African-American literary “tradition” from the 18th to the 20th century. Close reading of the canonical texts in the tradition,





and their structural relationships are stressed.

*Note:* Expected to be given in 2006–07.

**\*English 278x. Twentieth-Century Texts: Graduate Seminar**

Catalog Number: 2889 Enrollment: Limited to 15.

*Louis Menand*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

A reading course of works important for understanding twentieth-century literary and intellectual history. Four of the texts will be chosen by the class.

*Note:* Open to all students.

**\*English 292. Issues in the Study of American Literature: Graduate Seminar**

Catalog Number: 1618

*Werner Sollors*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Issue-oriented approaches to modern literature, using Hemingway as a point of departure; close reading, in different contexts, of an exemplary classic whose current stock seems to be low; archival research in the Hemingway papers.

*Note:* Please read or reread Hemingway's *The Sun Also Rises* for the first meeting.

**\*English 298. Literary Theory in the Life of Literature: Graduate Seminar**

Catalog Number: 3464

*Homi K. Bhabha*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Interactions between concepts central to literary theory—*genre* and ‘textuality’, writing and ‘difference’, ethics and interpretation, narrative and cultural translation—and literature embodying such concerns. Barthes, Habermas, Derrida, Lacan, Carey, Forster, Ghosh, Morrison, Rushdie, others.

**\*English 299. The Intellectual Life of the Profession: Proseminar**

Catalog Number: 7739

*Marjorie Garber*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Developments in literary criticism and theory from the 1960s to the present (historicism, psychoanalysis, deconstruction, gender theory, postcoloniality, cultural studies, book history, performance studies), and an overview of the profession: publication, teaching, conferences, research, and other aspects of academic life.

*Note:* An introduction to graduate study in English, open to both first and second year graduate students.

***Graduate Courses of Reading and Research***

**\*English 300hf. Old and Middle English: Doctoral Conference**

Catalog Number: 2334

*Daniel G. Donoghue 1469, Joseph C. Harris 1089 (on leave 2005-06), James Simpson 4791 (on leave spring term), and Nicholas Watson 3851*



*Half course (throughout the year). Hours to be arranged.*

The Conference focuses upon theses in progress and other research topics of mutual concern. Membership limited to faculty members teaching or conducting research in medieval English language and literature and to graduate students working in this field.

*Note:* Enrollment is open to all graduate students but is required of those who have been admitted to candidacy for the PhD and who intend to work on a medieval subject.

**\*English 302hf. Renaissance: Doctoral Conference**

Catalog Number: 2814

*Marjorie Garber 7264, Stephen J. Greenblatt 3436, Barbara K. Lewalski 7450, John Parker 3729 (on leave spring term), and Gordon Teskey 4466*

*Half course (throughout the year). Alternate W., at 4:15.*

The Conference focuses upon theses in progress and other research topics of mutual interest.

*Note:* Limited to faculty members teaching or conducting research in Renaissance literary studies and to graduate students working in the field. Enrollment is open to all such students, and is required of those who have been admitted to candidacy for the PhD and who intend to work on Renaissance topics.

**\*English 303. Guided Dissertation Research**

Catalog Number: 4267

*Elaine Scarry 2206*

*Half course (spring term). Tu., 1–4.*

Through regular meetings with faculty advisors, each student will work towards completion of chapters of the dissertation.

**\*English 304hf. The Extended 18th Century: Doctoral Conference**

Catalog Number: 6110

*Leo Damrosch 2200 (on leave spring term), James Engell 8076, Lynn M. Festa 2331 (on leave fall term), Leah Price 3501, and Michael Shinagel 7659*

*Half course (throughout the year). Hours to be arranged.*

Focuses on theses, theses in progress, and research topics of mutual interest.

*Note:* Required of graduate students working, or intending to work, on the Restoration, 18th century, or Romanticism (the periods 1660–1830), and who have been admitted to candidacy for the PhD. Open to other students working on topics in Restoration and 18th-century literature.

**\*English 305. Narrative (1800 to the Present): Doctoral Conference**

Catalog Number: 4846

*Philip J. Fisher 1470*

*Half course (fall term; repeated spring term). Hours to be arranged.*

The Conference focuses on theses in progress and other research topics of mutual concern.

*Note:* Limited to faculty members teaching or conducting research in 19th- and 20th-century British and American fiction and to graduate students working in the field. Enrollment is open to all such students, and is required of those who have been admitted to candidacy for the PhD and who intend to work in the field.



**\*English 306hf. 19th- and 20th-Century British Literature: Doctoral Conference**

Catalog Number: 5268

*Leah Price 3501*

*Half course (throughout the year). Hours to be arranged.*

**\*English 308hf. Drama: Doctoral Conference**

Catalog Number: 6909

*Marjorie Garber 7264, Elizabeth D. Lyman 4433 (on leave 2005-06), and Elaine Scarry 2206*

*Half course (throughout the year). Hours to be arranged.*

Focuses on research topics related to dramatic literature, theatre, and performance. Open to all faculty members and graduate students teaching or conducting research in the field.

**\*English 310hfr. American Literature and Culture: Doctoral Conference**

Catalog Number: 6235

*Lawrence Buell 2655, Elisa New 2428, and Werner Sollors 7424*

*Half course (throughout the year). Hours to be arranged.*

Colloquium open to all graduate students working in the area of American literature and culture.

Papers delivered by students writing seminar papers or theses, faculty members, and visiting scholars.

**\*English 314hf. 20th-Century Literature and Cultural Theory: Doctoral Conference**

Catalog Number: 1410

*Homi K. Bhabha 4100 and Sharmila Sen 2509*

*Half course (throughout the year). Hours to be arranged.*

Topics include African-American literature, contemporary literature, drama, film and/or performance, modernism, literary and cultural theory, postcolonial studies, postmodernism and Anglophone literatures. Work in progress, as well as dissertation chapters and potential articles and conference papers, encouraged.

*Note:* Open to all graduate students and faculty working in 20th-century literature and cultural theory.

**\*English 350. Teaching Colloquium**

Catalog Number: 8208

*Marjorie Garber 7264*

*Half course (fall term). M., 4–6 (biweekly).*

The craft of teaching (discussion, lectures, tutorials, course descriptions, syllabi). This colloquium, designed for third-year graduate students, will also consider issues related to the field exam, prospectus, and other aspects of advanced graduate study in English.

*Note:* Required of all third-year graduate students.

**\*English 397. Directed Study**

Catalog Number: 6588

*Members of the Department*

**\*English 398. Direction of Doctoral Dissertations**

Catalog Number: 5968



*Daniel Albright 4615 (on leave fall term), Homi K. Bhabha 4100, Lawrence Buell 2655, Glenda R. Carpio 4408 (on leave fall term), Leo Damrosch 2200 (on leave spring term), Leland P. de la Durantaye 4457, Daniel G. Donoghue 1469, James Engell 8076, Lynn M. Festa 2331 (on leave fall term), Philip J. Fisher 1470, Marjorie Garber 7264, Henry Louis Gates, Jr. 2899, Jorie Graham 2358, Stephen J. Greenblatt 3436, Joseph C. Harris 1089 (on leave 2005-06), Robert J. Kiely 1621 (on leave spring term), Barbara K. Lewalski 7450, Elizabeth D. Lyman 4433 (on leave 2005-06), Louis Menand 4752, Elisa New 2428, Peter C. Nohnberg 4726, John Parker 3729 (on leave spring term), John M. Picker 3728, Leah Price 3501, Ann Wierda Rowland 2582, Peter Sacks 2161, Elaine Scarry 2206, Sharmila Sen 2509, Marc Shell 3176, Michael Shinagel 7659, James Simpson 4791 (on leave spring term), Werner Sollors 7424, John Stauffer 1006, Gordon Teskey 4466, Helen Vendler 7226 (on leave 2005-06), and Nicholas Watson 3851*  
*Note:* Normally limited to students reading specifically in the field of a proposed doctoral thesis. Open only by petition to the Department; petitions should be presented during the term preceding enrollment, and must be signed by the instructor with whom the reading is to be done. All applicants for admission should first confer with the Director of Graduate Studies.

### **\*English 399. Reading and Research**

Catalog Number: 1825

*Members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Conducted through regular conferences and assigned writing. Limited to students reading specifically on topics not covered in regular courses. Open only by petition to the Department; petitions should be presented during the term preceding enrollment, and must be signed by the instructor with whom the reading is to be done. All applicants for admission should first confer with the Director of Graduate Studies.

## Environmental Science and Public Policy

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Degrees in Environmental Science and Public Policy*

James J. McCarthy, Professor of Biological Oceanography (*Chair*)

William C. Clark, Sidney Harman Professor of International Science, Public Policy, and Human Development (*Kennedy School*)

Richard T. T. Forman, Professor of Advanced Environmental Studies in the Field of Landscape Ecology (*Design School*)

Jerry R. Green, John Leverett Professor and David A. Wells Professor of Political Economy

N. Michele Holbrook, Charles Bullard Professor of Forestry

John P. Holdren, Teresa and John Heinz Professor of Environmental Science and Public Policy



(*Kennedy School*) and Professor of Environmental Science and Public Policy (*FAS*)  
Sheila S. Jasanoff, Pforzheimer Professor of Science and Technology Studies (*Kennedy School*)  
(*on leave fall term*)  
Michael B. McElroy, Gilbert Butler Professor of Environmental Studies  
Peter P. Rogers, Gordon McKay Professor of Environmental Engineering  
Daniel P. Schrag, Professor of Earth and Planetary Sciences  
John H. Shaw, Harry C. Dudley Professor of Structural and Economic Geology  
Robert N. Stavins, Albert Pratt Professor of Business and Government (*Kennedy School*)

***Other Faculty Offering Instruction in Environmental Science and Public Policy***

Amy Dunham, Lecturer on Environmental Science and Public Policy  
Henry Ehrenreich, Clowes Research Professor of Science  
Paul R. Epstein, Lecturer on Environmental Science and Public Policy  
James S. Hoyte, Lecturer on Environmental Science and Public Policy

The Environmental Science and Public Policy concentration is overseen by a Standing Committee functioning as a Board of Tutors including representatives from several departments of the Faculty of Arts and Sciences and from other schools as appropriate to ensure the requisite breadth of the program.

The concentration is designed to provide a multidisciplinary introduction to current problems of the environment. It is founded on the premise that the ability to form rational judgments concerning many of the complex challenges confronting society today involving the environment requires both an understanding of the underlying scientific and technical issues and an appreciation for the relevant economic, political, legal, historical, and ethical dimensions. It offers students an opportunity to specialize in a specific area of either natural or social science relating to the environment. All students have to satisfy a core of requirements in biology, chemistry, earth and planetary sciences, economics, government, and mathematics.

***Primarily for Undergraduates***

**Environmental Science and Public Policy 10. Introduction to Environmental Science and Public Policy**

Catalog Number: 6383

William C. Clark (*Kennedy School*)

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Headlines announce environmental degradation from local places, “Pesticides Pollute Wells”, to the entire globe, “World’s Warmest Year.” Strategies for addressing these problems are urgently at the center of science and policy debates from local to international levels. This course provides a dynamic and interdisciplinary exploration of such debates through in-depth case studies. As such, it seeks to foster critical thinking about how to analyze and address human-environment interactions characterized by complexity, conflict, and contested knowledge.

*Note:* Intended for interested students from all concentrations.



### **Environmental Science and Public Policy 78. Environmental Politics**

Catalog Number: 3613 Enrollment: Limited to 30.

*Sheila S. Jasanoff (Kennedy School)*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

An introduction to the history, organization, goals, and ideals of environmental protection in America. Examines the shift in emphasis from nature protection to pollution control to sustainability over the 20th-century and develops critical tools to analyze changing conceptions of nature and the role of science in environmental policy formulation. Of central interest is the relationship between knowledge, uncertainty, and political or legal action. Theoretical approaches are combined with case studies of major episodes and controversies in environmental protection.

### ***Environmental Science and Public Policy 90. Junior Seminars***

Enrollment in these seminars is limited, with preference given to Environmental Science and Public Policy concentrators in their junior year. One junior seminar fulfills the junior seminar requirement for Environmental Science and Public Policy concentrators.

### **\*Environmental Science and Public Policy 90c. Ecology and Land-Use Planning**

Catalog Number: 3792

*Richard T. T. Forman (Design School)*

*Half course (spring term). M., 2–5:15, with intensive field study, including a required one-week field study, and a one-day field study. EXAM GROUP: 7, 8, 9*

Investigation of how local and regional human activities such as housing, agriculture, water supply, and natural resource use can be arranged in the landscape so that environmental processes are not disrupted and ecosystems are maintained for the long term. The focus is on learning and applying spatial and ecological principles to land-use planning with the intention of regional biodiversity conservation, maintenance of water quality, and addressing other environmental issues.

### **\*Environmental Science and Public Policy 90d. Status of Environmental Justice as a Public Policy Issue**

Catalog Number: 5824

*James S. Hoyte*

*Half course (fall term). Tu., 4–6. EXAM GROUP: 18*

Examines the influences of race, socioeconomic status, and interest group politics in the formulation and implementation of US federal and state environmental policy. Topics include the civil rights struggle and the environmental justice movement, role of race in environmental policymaking, residential and occupational exposure patterns of environmental pollution, racial diversity in the environmental movement, socioeconomic factors shaping the research agenda for environmental affairs, facilities siting and community impacts, and lead contamination as an environmental justice issue.

*Note: Offered jointly with the Kennedy School as ENR-205.*

### **\*Environmental Science and Public Policy 90e. Conservation Biology**

Catalog Number: 6879





*Amy Dunham*

*Half course (spring term). W., 2–4:30. EXAM GROUP: 7, 8, 9*

The biological diversity of the planet is rapidly being depleted by human actions that reduce species to sizes where they become susceptible to extinction due to chance effects (environmental, demographic and genetic stochasticity). Concerned with the use of genetics to minimize extinction risk. Deals with the extent of genetic diversity, the forces affecting it, and the effects of population size reduction on genetic diversity and reproductive fitness.

*Note:* Local field trips within New England to be arranged.

**\*Environmental Science and Public Policy 90f. Global Change and Human Health**

Catalog Number: 4434

*James J. McCarthy and Paul R. Epstein*

*Half course (spring term). W., 2:30–5. EXAM GROUP: 7, 8*

Global consequences of increasing human population and our consumption of natural resources include extensive changes in many natural ecosystems and in the composition of Earth's atmosphere. In the last decade, geographic ranges of certain well known infectious diseases have expanded and new diseases have become threats to human health. This seminar explores hypothesized linkages between changes in ecosystems, climate, and the epidemiology of certain infectious diseases.

**\*Environmental Science and Public Policy 90h. Energy Problems and Promises**

Catalog Number: 2284

*Henry Ehrenreich*

*Half course (fall term). Tu., 1–3:30. EXAM GROUP: 15, 16*

The likely exhaustion of cheap oil in the near future, ambiguous political attitudes toward pollution and other problems mandate the development of alternative energy resources and technologies. The seminar will consider fossil fuel, wind, solar, nuclear energy, electrical and hydrogen mediated transmission, and novel technologies such as fuel cells and hybrid cars, all historically related to economic and social needs.

*Note:* Student participation includes a term paper, an oral class presentation, and involvement in seminar discussions.

*Prerequisite:* High school physics or chemistry or permission of the instructor.

**\*Environmental Science and Public Policy 90m. Technological Approaches to Mitigation of Climate Change**

Catalog Number: 0545

*Daniel P. Schrag and James J. McCarthy*

*Half course (fall term). W., 1:30–4. EXAM GROUP: 6, 7, 8*

A variety of technological approaches have been proposed to mitigate the risks posed by human-induced climate change. Prominent among these are carbon sequestration mechanisms. In addition, the hydrogen fuel cell might replace fossil fuels in distributed energy generation. In this seminar, we explore these emerging technologies and consider the technological limitations, the geological and ecological consequences, and the political and economic implications.

**\*Environmental Science and Public Policy 91r. Supervised Reading and Research**

Catalog Number: 1705





*James J. McCarthy and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading and research on topics not covered by regular courses of instruction. Students must complete a registration form, including permission from their faculty sponsor, with the concentration office before course enrollment. A final paper describing the research/reading completed during the term is due in duplicate to the Head Tutor on the first day of reading period.

*Note:* Intended for junior and senior concentrators in Environmental Science and Public Policy; open to sophomore concentrators only under exceptional circumstances. Permission of the Head Tutor is required for enrollment. May be counted for concentration only with the special permission of the Head Tutor.

**\*Environmental Science and Public Policy 99r. Tutorial — Senior Year**

Catalog Number: 5666

*James J. McCarthy and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Senior honors candidates must take at least one term of this course (fall or spring) while writing a thesis. If taken for two terms, only one term can be counted toward meeting concentration requirements.

## Ethnic Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Ethnic Studies*

Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies (*Chair*)

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Theodore C. Bestor, Professor of Anthropology

Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology

Vincent Brown, Assistant Professor of History (*on leave 2005-06*)

Joyce E. Chaplin, Professor of History

Kimberly McClain DaCosta, Assistant Professor of African and African American Studies and of Social Studies

Deborah D. Foster, Senior Lecturer on Folklore and Mythology

William E. Granara, Professor of the Practice of Arabic on the Gordon Gray Endowment

Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies (*on leave fall term*)



Michèle Lamont, Professor of Sociology (*on leave fall term*)

Susan W. Lewis, Director of the Core Program

Carmen D. Lopez, Executive Director, Harvard University Native American Program (*Kennedy School*)

Malinda Maynor Lowery, Assistant Professor of History

Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies

Lucien G. Taylor, Assistant Professor of Visual and Environmental Studies and of Anthropology

The Committee on Ethnic Studies is an Interdisciplinary Coordinating Committee constituted of faculty members from across the disciplines appointed to encourage and promote course offerings on ethnicity in the US. Ethnic studies might briefly be described as the study of aspects of collective identity shaped by factors ranging from descent to affinity. The field has emerged from and continues to flourish within individual departments as well as across disciplinary boundaries. Methodologies for the study of ethnicity vary, as does subject matter, which ranges from expressive culture to social organization, but scholars in ethnic studies share the challenge of studying intensely heterogeneous populations and materials. American ethnic communities have provided an important focus as well as particularly rich units of study for scholars of ethnicity, giving rise to many of the foundational works in the field. At the same time, both research and pedagogy in ethnic studies is often international and comparative in its purview due to the interaction between and among communities within individual locales as well as the global flow of people in diaspora. Ethnic studies have further given rise to a lively and growing body of theoretical work, sparked in part by the necessity to document and interpret the redefinition of identity through on-going processes shaped both by descent and consent.

The Committee on Ethnic Studies oversees the disposition of two FTE's annually to bring to campus visitors who offer courses in Native American, US Latino, and Asian American Studies. Past course offerings have spanned such topics as Native American Art and Architecture, Asian American Literature, Spanish Caribbean Music, Comparative Urban Latino Politics, and the relationship among Native Americans, Hispanos, and Anglos in the American Southwest.

To see additional committee activities, please see the website: [www.fas.harvard.edu/~cesh/](http://www.fas.harvard.edu/~cesh/)

The Committee does not offer an undergraduate concentration or an advanced degree. However, concentrations focusing on topics relating to ethnic studies can be undertaken through many departments, as well as within programs such as Social Studies, History and Literature, Folklore and Mythology, and Special Concentrations.

The Committee on Ethnic Studies is housed in the Office of Academic Programs.

### ***Core Courses in Ethnic Studies***

**[Foreign Cultures 46. Caribbean Societies: Socioeconomic Change and Cultural Adaptations](#)**

**[Foreign Cultures 60. Individual, Community, and Nation in Vietnam](#)**



[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]  
[Foreign Cultures 74. Cultures of Southern Europe](#)  
[Foreign Cultures 82. Modern Arabic Narratives: Self, Society, and Culture]  
[Foreign Cultures 86. West African Cultures](#)  
[Foreign Cultures 88. The African Experience: Tradition and Modernity](#)  
[Historical Study A-14. Japan: Tradition and Transformation](#)  
[Historical Study A-16. The Making of Modern South Asia]  
[Historical Study A-40. The Middle East and Europe since the Crusades: Relations and Perceptions](#)  
[Historical Study A-53. The Chinese Revolutionary Tradition]  
[Historical Study A-67. Gendered Communities: Women, Islam, and Nationalism in the Middle East and North Africa]  
[Historical Study B-52. Slavery and Slave Trade in Africa and the Americas]  
[Historical Study B-64. The Cuban Revolution, 1956-1971: A Self-Debate](#)  
[Historical Study B-67. Japan's Modern Revolution](#)  
[Literature and Arts A-48. Modern Jewish Literature](#)  
[Literature and Arts A-58. Ethnicity, Modernity, and Modernism in 20th-Century Literature, Art, and Culture]  
[Literature and Arts B-78. Soundscapes: Exploring Music in a Changing World](#)  
[Literature and Arts B-82. Sayin' Something: Jazz as Sound, Sensibility, and Social Dialogue]  
[Social Analysis 54. American Society and Public Policy]  
[Social Analysis 66. Race, Ethnicity, and Politics in the United States](#)

*Courses with a Primary Focus on Ethnicity in the United States*

[English 188. Native American Literature: Narrations of Nationhood](#)  
[General Education 175. Native Americans in the 21st Century: Nation-Building I]  
[History 1612. African Diaspora in the Americas]  
[\*History 1635. Race and Race Relations Since Plessy: Conference Course]  
[History 1638. US Social History, from 1920 to the Present]  
[\*History 1645. History of American Immigration: Conference Course]  
[History 1655. Native American Identities: Conference Course](#)  
[History 1657. Native America: The East](#)  
[History 1658. Native America: The West](#)  
[\\*History 1661. Social Thought in Modern America](#)  
[Sociology 60. Sociology of Race and Ethnicity](#)

*Courses Related to Ethnicity and the United States*

[Anthropology 1760 \(formerly Anthropology 153\). Nationalism and Bureaucracy](#)  
[Chinese Literature 132. Chinatowns]  
[\*Economics 1357. Historical Perspectives on American Economic Ascendancy]  
[Economics 1815. Social Problems of the American Economy]  
[Government 20. Introduction to Comparative Politics](#)  
[Government 90ej. Social Identities](#)



[\*Government 1582. Who Are We? Issues of American National Identity]  
[History 1610. Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America: Conference Course](#)  
 [History 1690. The US and Imperialism: Conference Course]  
 [Religion 16 (formerly Religion 1004). Religious Dimensions in Human Experience]  
[Sociology 60. Sociology of Race and Ethnicity](#)  
 [Sociology 149. Ethnicity: Comparative and Historical Perspectives: Conference Course]  
[Sociology 195. Globalization and Ethnicity](#)  
 [Studies of Women, Gender, and Sexuality 1101. Borders and Betrayals: Engendering Cultural Identities]  
[Visual and Environmental Studies 189 \(formerly Visual and Environmental Studies 189r\). Ethnographic Film History and Theory](#)

*Courses Related to Ethnicity outside the United States*

[African and African American Studies 141. Afro-Atlantic Religions]  
[Anthropology 1760 \(formerly Anthropology 153\). Nationalism and Bureaucracy](#)  
 [Chinese Literature 132. Chinatowns]  
 [Comparative Literature 166. The Comic Tradition in Jewish Culture]  
 [Folklore and Mythology 90b (formerly Folklore and Mythology 115). The African Oral Narrative Tradition: Seminar]  
 [French 70c. Introduction to French Literature III: The Francophone World]  
 [Government 90gs. Civil Society in Asia]  
[Government 1295. Comparative Politics in Latin America](#)  
 [Government 1760. International Relations of East Asia]  
[History 1610. Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America: Conference Course](#)  
 [History 1897. Nation, Reason and Religion in South Asia]  
[History 1958. Islam and Ethnicity: Conference Course](#)  
 [History of Art and Architecture 193. Painting Traditions in Africa]  
 [Indian Studies 110. History of South Asia to 1200 CE]  
 [Islamic Civilizations 124. Central Asian Culture and Society]  
[Islamic Civilizations 160. The Meanings of Islam in Central Asia](#)  
[Music 190r. Topics in World Music: Proseminar](#)  
 [Music 206r. Research Methods in Ethnomusicology: Musical Ethnography]  
[Music 207r. Ethnomusicology: Seminar](#)  
[Portuguese 37. Brasil hoje: Contemporary Brazilian Culture through Media](#)  
[Portuguese 44 \(formerly Portuguese 38\). Images of Brazil: Contemporary Brazilian Cinema](#)  
[Religion 11. World Religions: Diversity and Dialogue](#)  
[\\*Social Studies 98gf. Modernity and Social Change in East Asia](#)  
 [Sociology 149. Ethnicity: Comparative and Historical Perspectives: Conference Course]  
[Sociology 173. Making sense of contemporary Iraq: Seminar](#)  
 [Studies of Women, Gender, and Sexuality 1101. Borders and Betrayals: Engendering Cultural Identities]



**[Studies of Women, Gender, and Sexuality 1201. Bodies and Boundaries: Conference Course]**

## European Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on European Studies*

Peter A. Hall, Krupp Foundation Professor of European Studies (*Chair*)  
David Blackburn, Coolidge Professor of History  
Peter J. Burgard, Professor of German (*on leave 2005-06*)  
Pepper D. Culpepper, Associate Professor of Public Policy (*Kennedy School*)  
Grzegorz Ekiert, Professor of Government  
Niall Ferguson, Laurence A. Tisch Professor of History (*on leave fall term*)  
Peter E. Gordon, Professor of History (*on leave 2005-06*)  
Patrice Higonnet, Robert Walton Goelet Professor of French History  
Stanley Hoffmann, Paul and Catherine Battenwieser University Professor (*on leave spring term*)  
Torben Iversen, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)  
Michèle Lamont, Professor of Sociology (*on leave fall term*)  
Mary D. Lewis, Assistant Professor of History (*on leave spring term*)  
Charles S. Maier, Leverett Saltonstall Professor of History  
Cindy Skach, Associate Professor of Government (*on leave fall term*)  
Theda Skocpol, Victor S. Thomas Professor of Government and Sociology and Dean of the Graduate School of Arts and Sciences  
Judith Surkis, Associate Professor of History and of History and Literature  
Daniel F. Ziblatt, Assistant Professor of Government and of Social Studies (*on leave 2005-06*)

The Standing Committee on European Studies is the formal oversight body for the Minda de Gunzburg Center for European Studies. It is comprised of those permanent faculty members who have offices in the Center and selected other representatives of FAS and of other universities in the Boston area who remain active in the study and teaching of modern Europe.

For over thirty years, the Center for European Studies has offered an interdisciplinary program designed to enhance the knowledge and understanding of political, social, economic, and cultural developments in modern Europe. Its members' intellectual approaches encompass history, political science, political economy, anthropology, sociology and cultural studies. Its purview includes all the regions of Europe as well as the institutional structures within individual countries and the European Union. The Center funds undergraduate thesis travel, dissertation



fellowships, and offers several post-doctoral fellowships. Its quarters in Busch Hall provide office space for faculty, visiting scholars, and doctoral students on Europe. At the same time, the Center supports several study groups that maintain a schedule of seminars and presentations by visiting scholars and speakers from the world of public affairs and it organizes periodic conferences and workshops on European affairs. It maintains a program for the study of Germany and Europe initially funded by the Federal Republic of Germany and now supported by the Center's endowments. The Center is actively engaged in cooperation to advance European studies with other Harvard Faculties and Boston-area universities.

## Expository Writing

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Subcommittee on Expository Writing*

Benedict H. Gross, George Vasmer Leverett Professor of Mathematics and Dean of Harvard College (*Chair*)

Gordon C. Harvey, Senior Preceptor in Expository Writing and Associate Director of Expository Writing (*ex officio*)

John Huth, Donner Professor of Science

Stephen M. Kosslyn, John Lindsley Professor of Psychology

Susan W. Lewis, Director of the Core Program (*ex officio*)

David McCann, Korea Foundation Professor of Korean Literature

Nancy Sommers, Senior Lecturer in Expository Writing and Sosland Director of Expository Writing (*ex officio*)

#### *Other Faculty Offering Instruction in the Expository Writing Program*

Thomas Akbari, Preceptor in Expository Writing

Patricia M. Bellanca, Preceptor in Expository Writing (*on leave 2005-06*)

James E. Berg, Preceptor in Expository Writing

Susan E. Carlisle, Preceptor in Expository Writing

Angela L. Carlson, Preceptor in Expository Writing

Anthony B. Cashman, III, Preceptor in Expository Writing

Kathryn A. Chadbourne, Preceptor in Expository Writing

Sarah Emsley, Preceptor in Expository Writing

Lydia A. Fillingham, Preceptor in Expository Writing

Barry S. Gilbert, Preceptor in Expository Writing

David B. Haglund, Preceptor in Expository Writing



Paul L. Harding, Preceptor in Expository Writing  
 Gregory A. Harris, Preceptor in Expository Writing  
 Karen L. Heath, Senior Preceptor in Expository Writing  
 David K. Hecht, Preceptor in Expository Writing  
 Charles W. M. Henebry, Lecturer on History and Literature and Preceptor in Expository Writing  
 Luciana L. Herman, Preceptor in Expository Writing  
 James P. Herron, Preceptor in Expository Writing  
 Thomas R. Jehn, Preceptor in Expository Writing  
 Jeannine Johnson, Preceptor in Expository Writing  
 Damon Krukowski, Preceptor in Expository Writing  
 Marlon D. Kuzmick, Preceptor in Expository Writing  
 Stephen N. Larsen, Preceptor in Expository Writing  
 Eric C. LeMay, Preceptor in Expository Writing, Post-Doctoral Fellow in the Bok Center for Teaching & Learning  
 Judith A. Murciano, Preceptor in Expository Writing  
 Sonja B. Plesset, Preceptor in Expository Writing, Tutor in Mather House  
 Lillian P. Porten, Preceptor in Expository Writing  
 Jane A. Rosenzweig, Preceptor in Expository Writing  
 Susanna E. Ryan, Preceptor in Expository Writing  
 Damion Searls, Preceptor in Expository Writing  
 Emily J. Shelton, Preceptor in Expository Writing  
 Stephen B. Sutherland, Preceptor in Expository Writing  
 Thomas A. Underwood, Preceptor in Expository Writing  
 Andrea L. Volpe, Preceptor in Expository Writing  
 Thane D. Weedon, Preceptor in Expository Writing  
 Eric A. Weinberger, Preceptor in Expository Writing

### ***For Undergraduates Only***

Expository Writing 20 fulfills the basic requirement in Expository Writing, a requirement for all undergraduates in their first year of residence. No Expository Writing courses have midterm or final examinations. For additional information on Expository Writing courses, see [www.fas.harvard.edu/~expos](http://www.fas.harvard.edu/~expos).

### **Expository Writing 10. Introduction to Expository Writing**

Catalog Number: 6344 Enrollment: Limited to 10 students per section.

#### ***Members of the Department***

***Half course (fall term). Hours to be arranged. EXAM GROUP: 3***

A rigorous, intensive elective that helps students prepare for the demands of college writing. In small classes, students work closely with instructors on developing and organizing ideas; analyzing sources; and writing clear, lively essays. Students read essays, articles, and short stories and receive a great deal of individual attention.

***Note:*** After taking Expository Writing 10, a student must pass Expository Writing 20 to meet the College's Expository Writing requirement.





### Expository Writing 20. Expository Writing

Catalog Number: 5518 Enrollment: Limited to 15 students per section.

*Members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Aims to improve each student's ability to discover and reason about evidence through the medium of essays. Each section focuses on a particular theme or topic, as described in the *Guide to Expos Courses and Registration* (available on-line and from the Expository Writing office). All sections give students experience in formulating questions; analyzing both primary and secondary sources, and properly acknowledging them; supporting assertions with strong and detailed evidence; and shaping clear, lively essays. All sections emphasize revision.

### **[\*Expository Writing 52. Style and Styles in Prose]**

Catalog Number: 0674

*Gordon C. Harvey and staff*

*Half course (spring term). Hours to be arranged.*

For students who have completed Expository Writing 20 and wish to continue thinking about the art of writing and the style of their own prose. Readings include pieces by distinctive prose stylists such as Bacon, Browne, Johnson, Emerson, Dickinson, Twain, Lawrence, Woolf, Orwell, Baldwin, Didion, Gass, and others. Lectures and discussions consider the technique of particular passages and ponder fundamental concepts like clarity, voice, vividness, cliché, rhythm, irony, and wit. Students also attend regular one-on-one conferences on their own writing.

*Note:* Expected to be given in 2006–07. Open to graduate students with permission of instructor.

## Folklore and Mythology

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Members of the Steering Committee on Degrees in Folklore and Mythology***

Stephen A. Mitchell, Professor of Scandinavian and Folklore (*Chair*)

Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology

Julie A. Buckler, Professor of Slavic Languages and Literatures

Deborah D. Foster, Senior Lecturer on Folklore and Mythology (*Head Tutor*)

Joseph C. Harris, Francis Lee Higginson Professor of English Literature and Professor of Folklore (*on leave 2005-06*)

Michael Herzfeld, Professor of Anthropology

Barbara L. Hillers, Assistant Professor of Celtic Languages and Literatures

David G. Mitten, James Loeb Professor of Classical Art and Archaeology

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



Kimberley C. Patton, Professor of the Comparative and Historical Study of Religion (*Divinity School*) (*on leave 2005-06*)

Panagiotis Roilos, Associate Professor of Modern Greek (*on leave fall term*)

James R. Russell, Mashtots Professor of Armenian Studies

John Stauffer, Professor of English and American Literature and Language and Professor of African and African American Studies

Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and Dean for the Humanities

Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin (*on leave 2005-06*)

### ***Affiliated Members of the Committee on Degrees in Folklore and Mythology***

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Patrick K. Ford, Margaret Brooks Robinson Professor of Celtic Languages and Literatures (*fall term*) and Margaret Brooks Robinson Research Professor of Celtic Languages and Literatures (*spring term*) (*on leave fall term*)

Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations (*on leave fall term*)

Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*)

Peter Machinist, Hancock Professor of Hebrew and Other Oriental Languages

J. Lorand Matory, Professor of Anthropology and of African and African American Studies

Robb Moss, Rudolf Arnheim Lecturer on Filmmaking

John E. Murdoch, Professor of the History of Science

Tomás Ó Cathasaigh, Henry L. Shattuck Professor of Irish Studies

Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies

P. Oktor Skjaervo, Aga Khan Professor of Iranian

Laurel Thatcher Ulrich, Harvard College Professor and James Duncan Phillips Professor of Early American History

Michael Witzel, Wales Professor of Sanskrit

### ***Tutorials in Folklore and Mythology***

#### ***Primarily for Undergraduates***

#### **\*Folklore and Mythology 91r. Supervised Reading and Research**

Catalog Number: 2425

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Instruction and direction of reading on material not treated in regular courses of instruction; special work on topics in folklore, mythology, and oral literature. Normally available only to concentrators in Folklore and Mythology.

*Note:* Applicants must consult the Chairman of the Committee or the Head Tutor. The signature of the Chairman or the Head Tutor is required.



**\*Folklore and Mythology 97a (formerly \*Folklore and Mythology 105). Fieldwork and Ethnography in Folklore**

Catalog Number: 3789 Enrollment: Limited to 12.

*Deborah D. Foster*

*Half course (fall term). Th., 2:30–4:30. EXAM GROUP: 16, 17, 18*

Introduces concentrators to the study of traditions—their performance, collection, representation and interpretation. Both ethnographic and theoretical readings serve as the material for class discussion and the foundation for experimental fieldwork projects.

*Note:* Required of all, and limited to, concentrators.

**\*Folklore and Mythology 97b (formerly \*Folklore and Mythology 103). Oral Literature and the History of Folkloristics**

Catalog Number: 5039 Enrollment: Limited to 12.

*Stephen A. Mitchell*

*Half course (spring term). Tu., 2:30–4:30.*

Considers the implications of orality, literacy, performance, and transmission from ethnographic, literary and historical points of view. Examples and case-studies typically drawn from the Balkans, the American Southwest, Africa, and medieval Europe. Tutorial readings include works by Parry, Lord, Nagy, Ong, Foley, Zumthor, and Bauman.

*Note:* Required of all, and limited to, concentrators.

**\*Folklore and Mythology 98. Tutorial — Junior Year**

Catalog Number: 3685

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of all concentrators. The signature of the Head Tutor or of the Chairman of the Committee on Degrees in Folklore and Mythology required. Normally taken in the second term of the junior year.

**\*Folklore and Mythology 99. Tutorial — Senior Year**

Catalog Number: 3886

*Deborah D. Foster and members of the Committee*

*Full course. Hours to be arranged.*

*Note:* Required of all concentrators. The signature of the Head Tutor or of the Chairman of the Committee on Degrees in Folklore and Mythology required. Graded SAT/UNSAT.

***Folklore and Mythology Courses***

***Primarily for Undergraduates***

**[Folklore and Mythology 90b (formerly Folklore and Mythology 115). The African Oral Narrative Tradition: Seminar]**

Catalog Number: 5663

*Deborah D. Foster*

*Half course (spring term). Hours to be arranged.*

Examines African oral narrative, focusing on composition and performance techniques of oral



performers. Considers the way in which symbol and metaphor work in oral art forms; compares methods of oral narrative analysis, including structuralism, semiotics, and performance theory; investigates the function of the trickster figure, and studies the role of the hero in epic narrative. *Note:* Expected to be given in 2006–07. For Folklore and Mythology concentrators, or with permission of the instructor. All readings in English.

***For Undergraduates and Graduates***

**Folklore and Mythology 100. Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology**

Catalog Number: 3579

*Stephen A. Mitchell*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Surveys the major forms of folklore (e.g., myths, legends, epics, beliefs, rituals, festivals) and the theoretical approaches used in their study. Analyzes how folklore shapes national, regional, and ethnic identities, as well as daily life, and considers the function of folklore within the groups that perform and use it, employing materials drawn from a wide range of tradition areas (e.g., South Slavic oral epics, American occupational lore, Northern European ballads, witchcraft in Africa and America, Cajun Mardi Gras).

**Folklore and Mythology 113. African Women Storytellers**

Catalog Number: 9418 Enrollment: Limited to 15.

*Deborah D. Foster*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Reading (in translation) transcribed oral narratives, praise poems, autobiographies, plays and songs, in conjunction with historical and ethnographic sources, we will attempt to understand the way in which (some) African women have shaped and been shaped by their societies, nations and families, how they envision their lives in relation to these social groupings, and how they express their experiences through these various performances.

*Note:* Preference given to Folklore and Mythology and African and African American Studies concentrators.

**[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance as a Medium of Cultural and Personal Meaning]**

Catalog Number: 7982 Enrollment: Limited to 24.

*Deborah D. Foster*

*Half course (spring term). Hours to be arranged.*

An examination of the ways in which the dancing body is both a site of personal experience and a sign of cultural meaning. By observing dance performances (live and on film), participating in dance workshops, and reading ethnographic and theoretical texts, we attempt to understand the emergent meaning of dance performances from the perspective of both dancer and observer.

*Note:* Expected to be given in 2006–07.

**Folklore and Mythology 126. Continuing Oral Traditions in Native American Literature**

Catalog Number: 3445

*Lisa T. Brooks*



*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Rather than textual artifacts of a cultural past, Native American oral literatures are living traditions in particular landscapes, activities in which communities are engaged. Features trips to local Native places and close readings of recorded communal tellings and literary texts. Explores the role of oral traditions in Native American literature, emphasizing the intertextual and interdependent relationship between the oral and the written.

**[Folklore and Mythology 143. Imagining Slavery]**

Catalog Number: 3446

*John Stauffer*

*Half course (fall term). Hours to be arranged.*

This course explores how slavery has been imagined from literary, oral, artistic, and historical traditions, emphasizing the slaves' perspective, with some attention to the intellectual tradition. Writings or authors include Aesop's Fables; Aristotle; Aphra Behn; Muslim narratives; William Blake; Phillis Wheatley; Olaudah Equiano; Frederick Douglass; Sojourner Truth; Harriet Jacobs; spirituals and work songs; George Fitzhugh; William Johnson; Toni Morrison; prison writings; and historical and visual works.

*Note:* Expected to be given in 2006–07.

**\*Folklore and Mythology 191r. Supervised Reading and Research**

Catalog Number: 3255

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced reading in topics not covered in regular courses.

***Cross-listed Courses***

For a complete up-to-date list of cross-listed courses, please visit our department's courses website at [www.fas.harvard.edu/~folkmyth/indexcourses.htm](http://www.fas.harvard.edu/~folkmyth/indexcourses.htm)

## Germanic Languages and Literatures

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Germanic Languages and Literatures***

Eric Rentschler, Arthur Kingsley Porter Professor of Germanic Languages and Literatures  
(Chair) (Director of Graduate Studies, fall term)

Peter J. Burgard, Professor of German (on leave 2005-06)



Peter Fenves, Visiting Professor of Germanic Languages and Literatures (*Northwestern University*)

Karl S. Guthke, Kuno Francke Professor of German Art and Culture

Annette Johansson-Los, Preceptor in Swedish

Niklaus E. Largier, Visiting Professor of Germanic Languages and Literatures (*University of California, Berkeley*)

Charles P. Lutcavage, Senior Preceptor in German (*Director of Undergraduate Studies, German*)

Stephen A. Mitchell, Professor of Scandinavian and Folklore (*Director of Undergraduate Studies, Scandinavian*)

Sylvia Rieger, Preceptor in German

Judith Ryan, Robert K. and Dale J. Weary Professor of German and of Comparative Literature (*Director of Graduate Studies, spring term*) (*on leave fall term*)

Eckehard Simon, Victor S. Thomas Professor of Germanic Languages and Literatures (*on leave 2005-06*)

Oliver Simons, Assistant Professor of Germanic Languages and Literatures

Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and Dean for the Humanities

### ***Other Faculty Offering Instruction in the Department of Germanic Languages and Literatures***

Joseph C. Harris, Francis Lee Higginson Professor of English Literature and Professor of Folklore (*on leave 2005-06*)

Jay Jasanoff, Diebold Professor of Indo-European Linguistics and Philology (*on leave fall term*)

Peter Nisbet, Senior Lecturer on History of Art and Architecture

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

For more information on the Department, please visit [www.fas.harvard.edu/~german](http://www.fas.harvard.edu/~german).

## ***German***

### ***Primarily for Undergraduates***

The placement test in German is offered during Freshman Week and during Intersession.

#### **German A. Elementary German**

Catalog Number: 4294

*Sylvia Rieger and staff*

*Full course (indivisible). M. through Th., sections at 9, 10, 11, or 12. EXAM GROUP: 2, 11*

A thorough introduction to German language and culture designed for students with little or no knowledge of the language. Encompasses all four skills: speaking, listening, reading, and writing. Class time is focused on developing oral proficiency. Language instruction is supplemented by literary and non-literary texts, videos, and Internet activities.



*Note: The first half of this course may not be taken as a half course for credit toward the AB degree; there are no exceptions to this rule. May not be taken Pass/Fail. Not open to auditors.*

### **German Bab. Elementary German (Intensive)**

Catalog Number: 8629

Sylvia Rieger and staff

*Full course (fall term; repeated spring term). Fall: M. through F., sections at 9 or 12; and an additional hour to be arranged. Spring: M. through F., sections at 9, 10, or 12; and an additional hour to be arranged. EXAM GROUP: 2, 11*

A complete first-year course in one term for students with no knowledge of German. Provides a thorough introduction to German culture and language, encompassing all four 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 non-literary texts, videos, and Internet activities.

*Note: May not be taken Pass/Fail. Not open to auditors.*

### **German Da. Intermediate German: Speaking, Listening Comprehension, Reading, and Writing**

Catalog Number: 5779

Sylvia Rieger and staff

*Half course (fall term; repeated spring term). Fall term: M., W., F., sections at 9, 11, or 12; and an additional hour to be arranged. Spring term: M., W., F., at 9; and an additional hour to be arranged. EXAM GROUP: Fall: 2, 4; Spring: 2*

Aims at enhancing students' proficiency in all four skills, with special emphasis on speaking/discussion. The course also offers a thorough grammar review. Course materials consist of literary and non-literary texts and films that address a broad range of cultural topics.

*Note: Conducted in German. Not open to auditors.*

### **German Db. Intermediate German: Speaking, Listening Comprehension, Reading, and Writing**

Catalog Number: 2608

Sylvia Rieger and staff

*Half course (fall term; repeated spring term). Fall term: M., W., F., at 9; and an additional hour to be arranged. Spring term: M., W., F., sections at 9, 11, or 12; and an additional hour to be arranged. EXAM GROUP: Fall: 2; Spring: 2, 4*

Continuation of German Da. Discussion materials include literary and non-literary texts and film. Emphasis on speaking proficiency and on strengthening writing skills. Course includes a review of selected grammatical structures and exercises in vocabulary-building.

*Note: Conducted in German. Not open to auditors.*

*Prerequisite: German Da or permission of the instructor.*

### **German S. German for Reading Knowledge**

Catalog Number: 7177

Charles P. Lutcavage and staff

*Half course (fall term; repeated spring term). M., W., 4–5:30. EXAM GROUP: 9*





Development of reading proficiency for students with little or no knowledge of German.  
Emphasizes translation of academic German prose into English.  
*Note:* Not open to auditors.

### **German 50a. Introduction to 19th-Century German and Austrian Literature**

Catalog Number: 3213

*Eric Rentschler and staff*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

The course examines representative authors of the 19th century within the framework of major historical developments, social contexts, and central literary movements. Through close readings of texts in a variety of literary genres by such authors as the Brothers Grimm, Tieck, Kleist, Hoffmann, Stifter, Hauptmann, and Fontane, the course aims at improving writing and reading competence.

*Note:* Conducted in German.

*Prerequisite:* Satisfaction of the language requirement, equivalent preparation, or permission of the instructor.

### **German 50b. Introduction to 20th-Century German Literature**

Catalog Number: 5412

*Oliver Simons*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

The course focuses on central texts in 20th-century German literature. Key authors are read in parallel: for example, Friedrich Nietzsche and Hugo von Hofmannsthal, Alfred Döblin and Franz Kafka, Thomas Bernhard and Peter Handke. The course provides an historical overview, sharpens German reading skills, and introduces basic concepts in literary analysis.

*Note:* Conducted in German.

*Prerequisite:* Satisfaction of the language requirement, equivalent preparation, or permission of the instructor. German 50a is not a prerequisite for 50b.

### **[German 60. Advanced Reading, Conversation, and Composition]**

Catalog Number: 1807

*Eric Rentschler and staff*

*Half course (fall term). Hours to be arranged.*

Reading and discussion of 20th-century literature to improve grammar and vocabulary (through linguistic analysis of texts) and to develop conversational strategies (through discussion of the issues raised by the texts). The linguistic and thematic aspects of discussions merge in the writing of short essays. Advanced grammar instruction and review.

*Note:* Expected to be given in 2006–07. Conducted in German. Not open to auditors.

*Prerequisite:* German D, equivalent preparation, or permission of the instructor.

### **German 62. Advanced German: Berlin Since 1989**

Catalog Number: 2201

*Sylvia Rieger*

*Half course (fall term). M., W., F., sections at 10 or 12. Film screenings W., 6–8 pm. EXAM GROUP: 3, 5*

Using a broad array of literary and non-literary texts, the course explores the changes that have



shaped Berlin since 1989. Areas of discussion include reunification and its aftermath, architectural metamorphoses, east-west German relations, the culture of memory, minorities, and filmic portrayals of Berlin. Thorough advanced grammar review. Materials drawn from newspapers, the Internet, and hyper-multimedia resources.

*Note:* Strong class participation expected and encouraged in the form of group projects. Conducted in German. Not open to auditors.

*Prerequisite:* German D, equivalent preparation, or permission of the instructor.

### **German 65. Wirtschaftsdeutsch**

Catalog Number: 2678

*Charles P. Lutcavage*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Communication, reading, and writing skills for a business environment. Attention to grammar and specialized vocabulary, as well as cultural and political issues relevant to conducting business in German-speaking countries. Writing practice includes business correspondence and job applications. Supplemented by articles from the German-language press, the Internet, and videos.

*Note:* Conducted in German. May not be taken Pass/Fail. Not open to auditors.

*Prerequisite:* German D, equivalent preparation, or permission of the instructor.

### **German 68. Deutschland, Österreich, Europa**

Catalog Number: 6537

*Charles P. Lutcavage*

*Half course (spring term). M., W., F., sections at 11 or 12. EXAM GROUP: 4*

An advanced language course focusing on current events in Germany, Austria, and the European Union. Readings, discussions, and projects based on a variety of contemporary political, social, economic, and cultural topics. Materials from various sources, including the German-language press, the Internet, videos, and television news.

*Note:* Conducted in German. May not be taken Pass/Fail. Not open to auditors.

*Prerequisite:* German 60, German 62, German 65, or permission of the instructor.

### **\*German 91r. Supervised Reading and Research**

Catalog Number: 1059

*Charles P. Lutcavage and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced reading in topics not covered in regular courses.

*Note:* Permission of the Director of Undergraduate Studies is required.

### **\*German 97. Tutorial — Sophomore Year**

Catalog Number: 1774

*Eric Rentschler and members of the Department*

*Half course (fall term). Hours to be arranged.*

Introduction to German literary and cultural history and to the analysis of poetry, drama, narrative, and film.

*Note:* Required of all concentrators.



**\*German 99. Tutorial — Senior Year**

Catalog Number: 3286

*Charles P. Lutcavage and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Open to concentrators writing an honors thesis under faculty supervision. Students are expected to enroll for the entire year. Permission of the Director of Undergraduate Studies is required.

***Cross-listed Courses***

**\*Freshman Seminar 32y. Goethe's Faust**  
**Yiddish A. Elementary Yiddish**

***For Undergraduates and Graduates***

**[German 101. Introduction to Medieval Literature and Culture]**

Catalog Number: 6745

*Eckehard Simon*

*Half course (spring term). Hours to be arranged.*

Selected readings of major literature from the Old High German period to the Reformation (800–1500), focusing on the great Middle High German works (1170–1250): the *Nibelungenlied*, Hartmann's *Erec*, Gottfried's *Tristan*, Wolfram's *Parzival*, *Minnesang*, Walther von der Vogelweide. Extended discussion of historical and cultural background. Texts read in modern German translations.

*Note:* Expected to be given in 2007–08. Conducted in German. Graduate students upgrade the course to graduate credit by reading original texts.

*Prerequisite:* A reading knowledge of German.

**German 105. The Life of the Senses: Sensation and Emotion Before Modernity**

Catalog Number: 2369

*Niklaus E. Largier (University of California, Berkeley)*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An investigation into the understanding and the rhetoric of sensation and emotion in pre-Reformation cultures. Readings include Medieval and Early Modern texts from the courtly tradition (*Parzival*, *Tristan*, courtly poetry) and from religious traditions (Lives of Saints, “autobiographical” narratives). Course materials include images and manuscript illustrations.

*Note:* Expected to be omitted in 2006–07. Readings available in both German and English; discussions in English.

**[German 110. Baroque]**

Catalog Number: 8078

*Peter J. Burgard*

*Half course (fall term). Hours to be arranged.*

Examines the literature of the German Baroque as well as the art of the European Baroque.

Discussions of poetry, drama, and narrative. Focuses on questions of identity and excess, which are introduced via consideration of European Baroque art. Readings include Fleming,



Grimmelshausen, Gryphius, Hofmannswaldau, Lohenstein, Opitz, and Zesen. Artists considered include Asam, Bernini, Borromini, Caravaggio, Carracci, Rubens, and Velázquez.

*Note:* Expected to be given in 2007–08. Readings in German, discussions in English.

### **German 120. The Age of Goethe**

Catalog Number: 5099

*Karl S. Guthke*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Major writers and movements from the middle of the 18th to the beginning of the 19th century. Lessing, Herder, Goethe, Schiller, and others. Reading list is flexible to accommodate students' needs and interests.

*Note:* Readings in German, lectures and discussions in English.

### **German 145. The “Entrance Ticket” to European Culture: German-Jewish Literature and Thought, 1750–1918**

Catalog Number: 6250

*Peter Fenves (Northwestern University)*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

The idea of culture developed in the 18th century as a way of distinguishing among people without relying on inherited categories of religion, class, and nationality. The course examines the fate of this idea by concentrating on the works of German-Jewish writers and thinkers who, in Heine's words, were forced to weigh the cost of acquiring a “ticket” to culture. Readings by Mendelssohn, Maimon, Dorothea Schlegel, Heine, Hess, Herzl, Buber, and Kafka, among others.

*Note:* Expected to be omitted in 2006–07. No knowledge of German required. Readings and discussions in English; German concentrators read texts in the original.

### **[German 147. Nietzsche]**

Catalog Number: 6994

*Peter J. Burgard*

*Half course (spring term). Hours to be arranged.*

Readings and discussions of Nietzsche's major works (in translation), including *The Birth of Tragedy*, *Untimely Meditations*, *Human, All Too Human*, *The Gay Science*, *Thus Spoke Zarathustra*, *Beyond Good and Evil*, *The Genealogy of Morals*, *Twilight of the Idols*, *The Antichrist*, *Ecce Homo*, and *The Will to Power*.

*Note:* Expected to be given in 2006–07. No knowledge of German required. All readings and discussions in English.

### **[German 151. Franz Kafka: Modernity and Its Discontents]**

Catalog Number: 0169

*Judith Ryan*

*Half course (spring term). Hours to be arranged.*

Close readings of Kafka's novels and stories. Kafka's development of his characteristic narrative modes, the relation of his works to the cultural context in which they originated, the function of humor and parody in his works, and the challenges his texts pose for readers.

*Note:* Expected to be given in 2006–07. No knowledge of German required. Readings and discussions in English; German concentrators read texts in the original.



**[German 170. Goethe's *Faust* in Context]**

Catalog Number: 1246

Karl S. Guthke

*Half course (fall term). Hours to be arranged.*

Close analytical reading of parts I and II in the context of cultural and intellectual history. Major controversies over the interpretation of significant features of the work will be discussed, including the role of “post-Christian” and “post-Enlightenment” elements.

*Note:* Expected to be given in 2006–07. Readings in German, discussions in English.

**German 175. Realism**

Catalog Number: 5173

Oliver Simons

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Focusing on the problem of “objective” representations of reality, the course concentrates on leading representatives of “bourgeois realism”: Gottfried Keller, Wilhelm Raabe, Theodor Storm, Theodor Fontane, and Conrad Ferdinand Meyer. Through close reading of texts, the course explores how narrative techniques create realistic effects. Attention is paid to the visual arts and sciences in the second half of the 19th century as important contexts for literature of the period.

*Note:* Expected to be omitted in 2006–07. Readings and discussions in German.

**German 184. America in the German Mind**

Catalog Number: 3881

Oliver Simons

*Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6*

Journeys to “America” have their own history in German literature. For 19th-century writers such as Charles Sealsfield, Ferdinand Kürnberger, Friedrich Gerstäcker, Karl May, and others, “America” serves as a topos for aesthetic and political reflection. In 20th-century literature, the constructed nature of “America” becomes particularly apparent. Readings from this period include Franz Kafka, Wolfgang Koeppen, Peter Handke, Max Frisch, and W. G. Sebald.

*Note:* Expected to be omitted in 2006–07. Readings and discussions in German.

**[German 188 (formerly German 282). Poetry After Auschwitz]**

Catalog Number: 0379

Judith Ryan

*Half course (fall term). Hours to be arranged.*

Engaging with Adorno’s dictum about “poetry after Auschwitz” and related theoretical readings, the course focuses on lyric poetry from 1945 to the present.

*Note:* Expected to be given in 2006–07. Readings in German, discussions in English.

*Prerequisite:* Good knowledge of German essential.

**German 193. Stylistic Studies and Expository Writing**

Catalog Number: 6370

Karl S. Guthke

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Close analysis and informal discussion of the style and significance of very short keynote literary



and cultural texts, followed by written work (one page per week). Designed to develop appreciation of stylistic qualities and cultural implications of representative works and of the finer nuances of the German language. Authors: Luther, Goethe, Brentano, Brothers Grimm, Heine, C. F. Meyer, G. Keller, Fontane, Wedekind, Morgenstern, W. Busch, Schnitzler, Hofmannsthal, Rilke, Hesse, Mann, Brecht, Enzensberger, Johnson, Grass, and others.

*Note:* Conducted in German. Required of concentrators in German literature.

*Prerequisite:* Completion of German 60, 62, or permission of the instructor.

### ***Cross-listed Courses***

#### **Comparative Literature 151. The Faust Legend in Literature**

**[Comparative Literature 161. The Modernist Movements, 1909–1939]**

**[Comparative Literature 167. Contemporary Fiction: The Novel After Theory]**

**[Foreign Cultures 30. Forging a Nation: German Culture from Luther to Kant and Beyond]**

**[Foreign Cultures 32. Jugend gegen Hitler]**

**Foreign Cultures 76. Nazi Cinema: Fantasy Production in the Third Reich**

**Historical Study A-76. Germany 1871–1990: From Unification to Reunification**

**Literature and Arts A-16. Lives Ruined by Literature: The Theme of Reading in the Novel**

**[Literature and Arts C-25. The Medieval Stage]**

**[Literature and Arts C-43. The Medieval Court]**

**[Literature and Arts C-65. Repression and Expression: Literature and Art in *Fin-de-siècle* Germany and Austria]**

**[Literature and Arts C-67. The German Colonial Imagination]**

**Visual and Environmental Studies 174c. Film and Photography, Ontology and Art**

**[Visual and Environmental Studies 187x. New German Cinema: Oppositional Energies and Utopian Designs]**

**[Yiddish 102r. Modern Yiddish Literature I: The Yiddish Short Story]**

### ***Primarily for Graduates***

**[German 200 (formerly Germanic Philology 200). Introduction to Middle High German, Language, Literature, and Culture]**

Catalog Number: 4639

*Eckehard Simon*

*Half course (fall term). Hours to be arranged.*

Teaches reading knowledge of Middle High German through grammar study, translation, and explication of short literary and cultural texts. Introduces *Minnesang* and major narrative works of the courtly period (1170–1250). Some work with manuscripts and bookhands.

*Note:* Expected to be given in 2006–07. Open to graduate students from other departments who wish to learn to read medieval and early modern German for research.

*Prerequisite:* A reading knowledge of German.

**German 215. Philosophical Mysticism: Eckhart and His Reflections in Modern German Thought: Seminar**

Catalog Number: 8128



*Niklaus E. Largier (University of California, Berkeley)*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Based on the interpretation of key texts by Meister Eckhart, the course discusses modern readings of his texts and their impact on concepts of subjectivity from Hegel to Heidegger, Celan, Ingeborg Bachmann, and Derrida.

*Note:* Expected to be omitted in 2006–07. Readings available in both German and English; discussions in English.

**[German 221. Goethe: Seminar]**

Catalog Number: 7666

*Peter J. Burgard*

*Half course (spring term). Hours to be arranged.*

Examines selected major works, including poetry, dramas, novels, and essays on art, literature, and science.

*Note:* Expected to be given in 2007–08. Readings in German, discussions in English.

**[German 225 (formerly Germanic Philology 225). History of the German Language]**

Catalog Number: 5192

*Eckehard Simon*

*Half course (spring term). Hours to be arranged.*

A cultural history of the German language, from pre-literate Germanic dialects to the present.

The relationship between spoken and written German. Close reading and philological analysis of representative texts, handwritten and printed, from all periods.

*Note:* Expected to be given in 2006–07. Conducted in German.

*Prerequisite:* Command of German, one term of Middle High German, or the equivalent.

**German 226r. Theories of Literature: Proseminar**

Catalog Number: 1364

*Oliver Simons*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Hermeneutics, structuralism, discourse analysis, deconstruction, systems theory, and gender theory are among the approaches to literature examined for their points of contact and divergence. Attention is also paid to the problem of “applying” theories to literary analysis.

*Note:* Readings and discussions in German.

**German 234. Kant’s Critique of Judgment and the Aesthetics of Early German Idealism: Seminar**

Catalog Number: 5433

*Peter Fenves (Northwestern University)*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

The course begins with a detailed analysis of *Critique of Judgment*, especially its first part, followed by a discussion of the major responses to its concept of art in the writings of Schelling, Hölderlin, and Hegel.

*Note:* Expected to be omitted in 2006–07. Conducted in English. Readings in English; students with German language proficiency read texts in the original.





**[German 244. Readings in Film Theory]**

Catalog Number: 6388

*Eric Rentschler*

*Half course (fall term). Hours to be arranged.*

Classical film theory, from the formalist perspectives of Arnheim and Eisenstein to critical assessments of cinema's potential by Balázs, Kracauer, Benjamin, and Adorno. We contemplate the pertinence of these contributions for recent work in film and media studies.

*Note:* Expected to be given in 2006–07. Conducted in English. Readings in English; students with German-language proficiency read texts in the original.

**[German 264. German Literary Criticism from the Enlightenment to Naturalism]**

Catalog Number: 2411

*Karl S. Guthke*

*Half course (fall term). Hours to be arranged.*

A survey focusing on the analysis of representative critical texts. Lecture and discussion.

*Note:* Expected to be given in 2006–07. Open to qualified undergraduates.

**German 269. Introduction to Film Analysis**

Catalog Number: 1886

*Eric Rentschler*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Analytic approaches to the close study of feature films, concentrating on exemplary German productions from 1920 to 1945.

*Note:* Expected to be omitted in 2006–07. Conducted in English. Some readings in German.

**German 290. Experience and Remembrance in W. G. Sebald: Seminar**

Catalog Number: 7036

*Judith Ryan*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Close study of Sebald's narrative and poetic works, as well as a selection of his scholarly essays, against the backdrop of recent literary theory.

*Note:* Expected to be omitted in 2006–07. Readings in German, discussions in English.

***Cross-listed Courses***

**\*Comparative Literature 299ar. Theory and Comparative Literature: Proseminar**

***Graduate Courses of Reading and Research***

**\*German 300. Special Reading Programs and Research Problems for Advanced Students**

Catalog Number: 3646

*Peter J. Burgard 2217 (on leave 2005-06), Karl S. Guthke 1715, Peter Nisbet 1738, Eric Rentschler 2325, Judith Ryan 1135 (on leave fall term), Eckehard Simon 2670 (on leave 2005-06), Oliver Simons 5274, and Maria Tatar 3645*

***Germanic Philology***



***Primarily for Graduates***

**Germanic Philology 280. Introduction to Current Methods in Teaching German**

Catalog Number: 5944

Sylvia Rieger

*Half course (fall term). Hours to be arranged.*

A thorough introduction to current teaching approaches in foreign language teaching. Emphasis on development of practical skills for beginning to advanced German language courses.

***Graduate Courses of Reading and Research***

**\*Germanic Philology 300. Special Reading Programs and Research Problems for Advanced Students**

Catalog Number: 1045

Joseph C. Harris 1089 (on leave 2005-06), Jay Jasanoff 1661 (on leave fall term), Stephen A. Mitchell 7056, and Eckehard Simon 2670 (on leave 2005-06)

***Cross-listed Courses***

**English 101. The History and Structure of the English Language**

**Linguistics 110. Introduction to Linguistics**

[Linguistics 168. Introduction to Germanic Linguistics]

[Linguistics 247. Topics in Germanic Linguistics]

[Yiddish 105. Yiddish Language and Linguistic Theory]

***Dutch***

***For Undergraduates and Graduates***

**[Dutch A. Elementary Dutch]**

Catalog Number: 7660

Charles P. Lutcavage

*Full course (indivisible). Hours to be arranged.*

A thorough introduction to Dutch, focusing on speaking, listening, reading, and writing skills. Class sessions emphasize the development of oral proficiency. Readings include short stories, poems, and newspaper articles. Videos, films, and the Internet provide supplementary material for discussion of current events and culture.

*Note:* Expected to be given in 2006–07. *The first half of this course may not be taken as a half course for credit toward the AB degree.* Not open to auditors.

***Scandinavian***

***Primarily for Undergraduates***

**[Scandinavian 60. Viking Age and Medieval Scandinavian Literature and Culture]**

Catalog Number: 6320



*Stephen A. Mitchell and members of the Department*

*Half course (fall term). Hours to be arranged.*

An exploration of the dramatic transformations in Scandinavian society and culture from the era of the Vikings to the Middle Ages. The course examines the heroic ideal and the status of women as well as reflecting on modern approaches to the medieval period. Readings include the *Saga of the Volsungs*, *Laxdaela saga*, *Njal's saga*, and *Kristin Lavrandsdatter*. Films by Hrafn Gunnauugsson and Liv Ullman.

*Note:* Expected to be given in 2006–07. All readings and discussions in English.

### **[Scandinavian 61. Introduction to Literature and Culture in Modern Scandinavia]**

Catalog Number: 7379

*Stephen A. Mitchell and members of the Department*

*Half course (spring term). Hours to be arranged.*

Studies the literature and art of the “new” Scandinavia at the turn-of-the-century and scrutinizes the three “s” stereotypes: sex, socialism, and suicide. The course also considers questions of national identity, the construction of a culture, and the place of ethnic minorities. Novels by Strindberg, Ibsen, Moberg, Martinsson, and others. Films by Ingmar and Daniel Bergman, Colin Nutley, and Lukas Moodysson.

*Note:* Expected to be given in 2006–07. All readings and discussions in English.

### **\*Scandinavian 91r. Supervised Reading and Research**

Catalog Number: 7308

*Stephen A. Mitchell and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced reading in topics not covered in regular courses.

*Note:* Permission of the Director of Undergraduate Studies required.

### **\*Scandinavian 97. Tutorial — Sophomore Year**

Catalog Number: 1592

*Stephen A. Mitchell and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Group or individual tutorial designed to supplement course work and acquaint students with appropriate analytical methods.

*Note:* Open to concentrators in the Scandinavian option. Permission of the Director of Undergraduate Studies required.

### **\*Scandinavian 98. Tutorial — Junior Year**

Catalog Number: 4255

*Stephen A. Mitchell and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Group or individual tutorial designed to supplement course work and to develop analytical techniques.

*Note:* Permission of the Director of Undergraduate Studies required.

### **\*Scandinavian 99. Tutorial — Senior Year**

Catalog Number: 5542



*Stephen A. Mitchell and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Open to concentrators writing an honors thesis under faculty supervision. Students are expected to enroll for the entire year. Permission of the Director of Undergraduate Studies required.

### **Swedish A. Introduction to Swedish Language and Literature**

Catalog Number: 7438

*Annette Johansson-Los*

*Full course (indivisible). M. through Th., at 12. EXAM GROUP: 5, 14*

A basic course focusing on listening, speaking, reading, and writing skills. During spring term, the emphasis is on more advanced conversation and an introduction to Sweden's culture and civilization through selected texts and videos. By year's end, students will be able to carry on conversations in everyday Swedish.

*Note:* The first half of this course may not be taken as a half course for credit toward the AB degree. Not open to auditors.

### **Swedish Ba. Intermediate Swedish**

Catalog Number: 3104

*Annette Johansson-Los*

*Half course (fall term). M., W., at 10; and an additional hour to be arranged. EXAM GROUP: 3*

Review of the essentials of Swedish grammar and development of vocabulary. Readings in modern Swedish literature are selected to encourage class discussion and to improve the student's speaking and writing skills. Authors include Hjalmar Söderberg, Selma Lagerlöf, and Ingmar Bergman.

*Note:* Conducted in Swedish. Not open to auditors.

*Prerequisite:* Swedish A or equivalent.

### **Swedish Bb. Intermediate Swedish**

Catalog Number: 3405

*Annette Johansson-Los*

*Half course (spring term). M., W., at 1; and an additional hour to be arranged. EXAM GROUP: 6*

Continuation of Swedish Ba. Readings from works in classical and modern Swedish literature and other texts of cultural and social interest. Authors include August Strindberg, Pär Lagerkvist, Carl Michael Bellman, Tomas Tranströmer, and Vilhelm Moberg.

*Note:* Conducted in Swedish. Not open to auditors.

*Prerequisite:* Swedish Ba or equivalent.

### ***For Undergraduates and Graduates***

### **Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy**

Catalog Number: 1139 Enrollment: Limited to 12.

*Stephen A. Mitchell*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Introduction to the language and literary culture of medieval Scandinavia, emphasizing works



treating the Viking Age and their valorization of an heroic ideal. In addition to basic language skills, students acquire familiarity with key critical tools of the field. Readings include scaldic poetry, selections from *Egils saga* and the Vinland sagas, and various runic monuments.

*Note:* May be counted toward the Folklore and Mythology 90 requirement.

**Scandinavian 160br (formerly Scandinavian 160b). Old Norse Language, Literature, and Culture: Mythology**

Catalog Number: 7588 Enrollment: Limited to 12.

*Stephen A. Mitchell*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Builds on Scandinavian 160a, continuing the language study and cultural survey of the first term, but now considers mythological texts relating to Viking religious life, mainly selections from the prose and poetic *Eddas*. Special attention is paid to scholarly tools and debates concerned with the interpretation of these cultural monuments.

*Note:* May be counted toward the Folklore and Mythology 90 requirement.

*Prerequisite:* Scandinavian 160a or equivalent.

***Graduate Courses of Reading and Research***

**\*Scandinavian 300. Special Reading Programs and Research Problems for Advanced Students**

Catalog Number: 1708

*Joseph C. Harris 1089 (on leave 2005-06) and Stephen A. Mitchell 7056*

*Half course (fall term; repeated spring term). Hours to be arranged.*

## Government

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Government***

Nancy Lipton Rosenblum, Senator Joseph S. Clark Professorship of Ethics in Politics and Government (*Chair*)

James E. Alt, Frank G. Thomson Professor of Government

Robert H. Bates, Eaton Professor of the Science of Government

Terri Bimes, Lecturer on Government

Bear F. Braumoeller, Associate Professor of Government

Barry C. Burden, Associate Professor of Government

Daniel P. Carpenter, Professor of Government (*Director of Graduate Studies*)

Stefan Collignon, Visiting Professor of Government (*London School of Economics*)



Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies  
 Jorge I. Domínguez, Clarence Dillon Professor of International Affairs  
 Grzegorz Ekiert, Professor of Government  
 Margarita Estevez-Abe, Paul Sack Associate Professor of Political Economy (*on leave 2005-06*)  
 Mary Fitzgerald, Visiting Assistant Professor of Government (*James Madison University*)  
 Jeffry Frieden, Stanfield Professor of International Peace  
 Andrea M. Gates, Lecturer on Government  
 Dmitry P. Gorenburg, Lecturer on Government (*fall term only*)  
 Peter A. Hall, Krupp Foundation Professor of European Studies  
 Yoshiko M. Herrera, John L. Loeb Associate Professor of the Social Sciences  
 D. Sunshine Hillygus, Assistant Professor of Government (*on leave 2005-06*)  
 Michael J. Hiscox, Professor of Government  
 Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African  
 and African American Studies (*on leave fall term*)  
 Stanley Hoffmann, Paul and Catherine Battenwieser University Professor (*on leave spring term*)  
 William G. Howell, Associate Professor of Government  
 Samuel P. Huntington, Albert J. Weatherhead, III University Professor  
 Torben Iversen, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)  
 Jennifer Jerit (*Southern Illinois University, Carbondale*) (*spring term only*)  
 Alastair Iain Johnston, Governor James Albert Noe Sr. and Linda and Christel Noe Laine Kelley  
 Professor of China in World Affairs  
 Gary King, David Florence Professor of Government  
 Sharon R. Krause, Associate Professor of Government  
 William Kristol, Visiting Lecturer on Government  
 Andrew Harriman Kydd, Associate Professor of Government (*on leave fall term*)  
 Steven R. Levitsky, John L. Loeb Associate Professor of the Social Sciences  
 Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science  
 Sebastiano Maffettone, Visiting Professor of Government (*Luiss University*)  
 Harvey C. Mansfield, William R. Kenan, Jr., Professor of Government  
 Lisa L. Martin, Clarence Dillon Professor of International Affairs  
 Rachel M. McCleary, Lecturer on Government  
 Rose McDermott, Visiting Associate Professor of Government (*University of California, Santa  
 Barbara*) (*spring term only*)  
 Jens Meierhenrich, Assistant Professor of Government and of Social Studies, Temporary OT  
 Eligible (*on leave spring term*)  
 Tamara Metz, Lecturer on Social Studies and on Government  
 Glyn Morgan, Associate Professor of Government and of Social Studies  
 Russell Muirhead, Associate Professor of Government (*on leave 2005-06*)  
 Eric M. Nelson, Assistant Professor of Government  
 Jacqueline A. Newmyer, Lecturer on Government  
 Pippa Norris, Lecturer on Government  
 John W. Patty, Assistant Professor of Government  
 Elizabeth M. Penn, Assistant Professor of Government  
 Elizabeth J. Perry, Henry Rosovsky Professor of Government (*on leave spring term*)  
 Paul E. Peterson, Henry Lee Shattuck Professor of Government (*on leave 2005-06*)  
 Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics (*on leave spring term*)



Matthew E. Price, Lecturer on Government  
Robert D. Putnam, Peter and Isabel Malkin Professor of Public Policy  
Kevin M. Quinn, Assistant Professor of Government  
Louise M. Richardson, Senior Lecturer on Government  
James Robinson, Professor of Government  
Stephen P. Rosen, Harvard College Professor and Beton Michael Kaneb Professor of National Security and Military Affairs  
Bo Rothstein, Visiting Professor of Government (*Goteborg University*) (*spring term only*)  
Jacques Rupnik, Visiting Professor of Government (*CERI-Sciences Political*)  
Carol R. Saivetz, Lecturer on Government  
Michael J. Sandel, Anne T. and Robert M. Bass Professor of Government  
Eric Schickler, Professor of Government (*Director of Undergraduate Studies*)  
John S. Schoeberlein, Lecturer on Near Eastern Languages and Civilizations (*fall term*) and Lecturer on Government (*spring term*)  
Emad Shahin, Visiting Associate Professor of Government (*The American University in Cairo*) (*spring term only*)  
Catherine R. Shapiro, Lecturer on Government  
Kenneth A. Shepsle, George D. Markham Professor of Government (*on leave 2005-06*)  
Beth A. Simmons, Professor of Government  
Cindy Skach, Associate Professor of Government (*on leave fall term*)  
Theda Skocpol, Victor S. Thomas Professor of Government and Sociology and Dean of the Graduate School of Arts and Sciences  
Strom Thacker, Visiting Associate Professor of Government (*Boston University*) (*spring term only*)  
Dennis F. Thompson, Alfred North Whitehead Professor of Political Philosophy (*FAS, Kennedy School*)  
Richard Tuck, Frank G. Thomson Professor of Government  
Sidney Verba, Carl H. Pforzheimer University Professor  
Cara Wong, Visiting Assistant Professor of Government (*University of Michigan*)  
David M. Woodruff, Lecturer on Social Studies and on Government  
Daniel F. Ziblatt, Assistant Professor of Government and of Social Studies (*on leave 2005-06*)

***Other Faculty Offering Instruction in the Department of Government***

Alberto Abadie, Assistant Professor of Public Policy (*Kennedy School*)  
Graham T. Allison, Jr., Douglas Dillon Professor of Government (*Kennedy School*)  
Richard H. Fallon, Ralph S. Tyler, Jr., Professor in Constitutional Law (*Harvard Law School*)  
Garrett M. Fitzmaurice, Associate Professor of Biostatistics (*Public Health*)  
Lee Fleming, Associate Professor of Business Administration (*Business School*)  
J. Bryan Hehir, Parker Gilber Montgomery Professor of the Practice in Religion and Public Life (*Kennedy School*)  
Guido W. Imbens, Visiting Professor of Economics (*University of California, Berkeley*) (*fall term only*)  
David Little, T. J. Dermot Dunphy Professor of the Practice in Religion, Ethnicity, and International Conflict (*Divinity School*)  
Jane Mansbridge, Adams Professor of Political Leadership and Democratic Values (*Kennedy*)





*School)*

Douglas A. Melton, Thomas Dudley Cabot Professor of the Natural Sciences and Chair of the Life Sciences Council

Roger B. Porter, IBM Professor of Business and Government (*Kennedy School*)

James M. Robins, Professor of Epidemiology and Biostatistics (*Public Health*)

Donald B. Rubin, John L. Loeb Professor of Statistics

Monica D. Toft, Associate Professor of Public Policy (*Kennedy School*)

Roberto Mangabeira Unger, Roscoe Pound Professor of Law (*Law School*)

Andrew G. Walder, Visiting Professor of Sociology (*Stanford University*)

William Julius Wilson, Lewis F. and Linda L. Geyser University Professor

Christopher Winship, Diker-Tishman Professor of Sociology

Alan M. Zaslavsky, Professor of Health Care Policy (*Medical School*)

A full list of courses that count toward undergraduate concentration is available in the Office of the Director of Undergraduate Studies.

Department of Government course listings are numerically ordered as follows:

10–50: Introductory and General Courses

90 (with one or more letter suffix): Junior Seminars

91–99: Supervised Reading and Research, and Tutorials

1000–1029 and 2000–2029: Political Methodology and Formal Theory

1030–1099 and 2030–2099: Political Thought and Its History

1100–1299 and 2100–2299: Comparative Government

1300–1599 and 2300–2599: American Government, Public Law, and Administration

1700–1999 and 2700–2999: International Relations

3000–3999: Graduate Courses of Reading and Research and Dissertation Workshops

***Introductory and General Courses***

***Primarily for Undergraduates***

**Government 10. Introduction to Political Thought**

Catalog Number: 8836 Enrollment: Limited to 100.

*Sharon R. Krause*

*Half course (fall term). Tu., Th., at 11; . EXAM GROUP: 13*

Provides an introduction to political theory through an investigation of debates about freedom among philosophers from the ancient and modern periods. Four themes are considered: (1)



freedom in relation to political obligation and civil disobedience; (2) the relationship between freedom and virtue; (3) freedom in the social contract theory of government; and (4) freedom in connection with social progress. Readings include Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Marx, J. S. Mill.

### **Government 20. Introduction to Comparative Politics**

Catalog Number: 6166

*Pippa Norris*

*Half course (fall term). M., W., at 12. EXAM GROUP: 5*

Provides an introduction to key concepts and theoretical approaches in comparative politics. Major themes include democratization and good governance, institutional structures, political culture, economic development, political participation, and ethnic conflict. Examines and critically evaluates major contemporary controversies in comparative politics and applies these in group workshop exercises focused on state-building in Afghanistan and Iraq. Compares cases from Africa, Asia, Europe, and Latin America to illustrate the basic tools and methods of comparative analysis.

### **Government 30. American Government: A New Perspective**

Catalog Number: 0263

*Daniel P. Carpenter*

*Half course (spring term). M., W., (F)., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Provides an overview of contemporary American politics, showing how recent changes in elections and media coverage have helped shape key aspects of American government. From the courts, Congress, and the Presidency, to the workings of interest groups and political parties, and, also to the making of public policy, the pressure on political leaders to run permanent campaigns has altered governmental institutions and processes. The course explains how and why.

### ***Cross-listed Courses***

### **Historical Study A-12. International Conflict and Cooperation in the Modern World**

#### ***Government 90. Junior Seminars***

These half courses are limited to 16 participants with preference given to government concentrators in their junior years. Students who have elected the honors program may take two junior seminars (90), two junior tutorials (98) or one of each. Enrollment in both 90 and 98 is determined by a lottery based on student preferences. Undergraduate non-concentrators may enroll in junior seminars and tutorials on a space available basis. All students wishing to enroll in Government 90 or 98 must participate in the lottery.

### **Government 90a. Contemporary British Politics**

Catalog Number: 6263

*James E. Alt*



*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Focuses on changes in economy, society, and politics in the transition from empire to small country. Topics include the evolving party system, electoral behavior, and a range of policy questions involving economic management, the welfare state, the European Community, race relations, and Northern Ireland.

**[Government 90au. Political Economy]**

Catalog Number: 8213

*Torben Iversen*

*Half course (fall term). Hours to be arranged.*

Examines modern theories of political economy and their applications to macro problems in advanced democracies. Why do some governments and countries generate better economic performance than others? Why are some economies more egalitarian than others? How do politicians manipulate the economy for partisan gain, and how are politicians constrained by institutions and the global economy? We seek to answer these questions using the most promising theories in political science and economics.

*Note:* Expected to be given in 2006–07.

**Government 90av. Topics in Behavioral Decision-Making**

Catalog Number: 0841

*Elizabeth M. Penn*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

While economic models in the rational choice tradition have long been applied to political science, behavioral models are increasingly being used to understand political behavior. Such models use psychological regularities to answer questions that have long perplexed rational choice theorists, like "Why vote in a large election when the probability of being pivotal is essentially zero?" This course provides an overview of behavioral economics and how it can be applied to politics.

*Prerequisite:* Economics 10.

**[Government 90aw. Contemporary European Politics]**

Catalog Number: 0957

*Daniel F. Ziblatt*

*Half course (fall term). Hours to be arranged.*

The course traces key issues in contemporary Europe focusing on the impact of the May 2004 expansion of the EU on the new members of the EU. How has EU expansion affected the newly admitted states? What lessons can be learned from earlier cases of EU expansion about the prospects for economic growth and political stabilization? What are and will be the political reactions to the ongoing processes of transformation?

*Note:* Expected to be given in 2006–07.

**[Government 90ax. Crucial Events in Chinese Elite Politics]**

Catalog Number: 7481

*Roderick MacFarquhar*

*Half course (spring term). Hours to be arranged.*

A critical reexamination of major events in the politics of the People's Republic and of the



hitherto accepted Western analyses of them, using the new data made available in the PRC in recent years. The objective is to outline new hypotheses where necessary and more importantly, to explore what need there might be for new ways of studying Chinese politics.

*Note:* Expected to be given in 2006–07.

### **Government 90bc. Courts and Social Change**

Catalog Number: 9386

*Kevin M. Quinn*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Many commentators argue that courts, particularly the Supreme Court, have brought about non-trivial social change. This course looks at the processes by which such changes might occur and examines the empirical support for claims of court-driven social change.

### **Government 90bd. Women and Politics**

Catalog Number: 0579

*Mary Fitzgerald (James Madison University)*

*Half course (fall term). W., 3:30–5:30. EXAM GROUP: 8, 9*

This course provides students with an understanding of the role and impact of women in American politics and society. Specifically, this course examines the history of women as activists in political movements and electoral politics, explores the challenges and opportunities women face as political candidates and public officials, and investigates how women influence public policy and the policy agenda, as well as how public policies affect women.

### **Government 90bq. Legal Identities**

Catalog Number: 4698

*Cindy Skach*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

This seminar is concerned with the various ways in which identities are constructed and shaped by law. Drawing on court cases from Germany, France, the UK, Turkey, the US, the European Court of Justice, and the European Court of Human Rights, this course compares the evolving impact of law on the ethnic, religious, and cultural identities of citizens in the contemporary world.

### **[Government 90bw. Markets and Morals]**

Catalog Number: 5921

*Michael J. Sandel*

*Half course (fall term). Hours to be arranged.*

Examines controversial cases of commodification, and asks whether there are some things money cannot or should not buy. Topics include organ sales, surrogacy, college financial aid, pollution permits, for-profit prisons, mercenary armies, and others.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* A previous course in political theory or moral reasoning is recommended.

### **[Government 90dd. Education Politics and Policy]**

Catalog Number: 3796

*Paul E. Peterson*



*Half course (fall term). Hours to be arranged.*

Analysis of political forces shaping elementary and secondary education governance and policy. Major contemporary issues discussed. Students expected to write term papers.

*Note:* Expected to be given in 2006–07.

### **Government 90dh. Political Theory and the Foreigner**

Catalog Number: 4142

*Matthew E. Price*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

This course asks whether a distinction between citizens and foreigners—in ethics and in the law—is justified. Issues examined include global redistributive justice; the ethics of immigration restrictions; refugee and asylum policy; the concept of citizenship; multiculturalism; and the implications of the war on terror.

### **Government 90dm. Democratic Transitions and European Integration in East Central Europe**

Catalog Number: 1796

*Jacques Rupnik (CERI-Sciences Political)*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

The course will examine, in a comparative perspective, different patterns of transition to democracy (or authoritarian nationalism) in post-communist Europe and their implications for European integration: European Union enlargement in Central Europe, international protectorates in the Balkans. The relevance of social science theories in trying to account for these contrasting developments will be discussed as well as the geopolitical significance for the European Union and Russia of democratic changes from the Ukraine to the Caucasus.

### **Government 90ej. Social Identities**

Catalog Number: 9514

*Yoshiko M. Herrera*

*Half course (spring term). Hours to be arranged.*

An introduction to theories of social identity in political science and social psychology. Considers a range of traditional identity categories, including race, ethnicity, nationality, class, status, gender, and religion. Emphasizes techniques and strategies that have been developed to measure identity. Course readings consist mainly of empirical works on identity from a variety of geographical areas.

### **[Government 90fj. Political Persuasion]**

Catalog Number: 5033

*D. Sunshine Hillygus*

*Half course (spring term). Hours to be arranged.*

Examines political persuasion and democratic decision-making, with particular attention paid to government persuasion campaigns such as presidential elections. What is the function of political persuasion in American democracy? What techniques do political elites use to attempt to influence mass opinions and behavior? Who is most likely to be influenced by such appeals? What is the role of the mass media? Readings drawn from political communication, political



psychology, and political behavior.

*Note:* Expected to be given in 2007–08.

**[Government 90gc. Gender, Politics, and Markets]**

Catalog Number: 1496

*Margarita Estevez-Abe*

*Half course (fall term). Hours to be arranged.*

Although improvements have been made during the past century, women are still treated differently within the family, workplace and in politics. Where does this difference originate? Is gender difference either necessary or desirable? Why does the status of women differ across countries?

*Note:* Expected to be given in 2006–07.

**Government 90gh. Classics and Contemporaries in Comparative Politics**

Catalog Number: 2680

*David M. Woodruff*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

This course covers some important contemporary debates in comparative politics—on such matters as democracy and economic development, social capital and governance, or class conflict and political regimes—and relates them to classic works in the discipline. Beyond an understanding of how comparative politics has evolved, students will gain insight into how to research, and participate in, an ongoing scholarly discussion.

**[Government 90gs. Civil Society in Asia]**

Catalog Number: 7546

*Susan J. Pharr*

*Half course (spring term). Hours to be arranged.*

This seminar explores the concept of civil society with a focus on Asia. It looks at the Western origins of the idea of civil society, public space, and social capital; debates over their applicability outside the West; the relation between civil society and democracy; the forms civil society takes under conditions of repression; and how civil societies arise in the first place.

Special attention to China, Japan, Korea, Taiwan, and India.

*Note:* Expected to be given in 2006–07.

**[Government 90ia. Sino-US Relations in an Era of Rising Chinese Power]**

Catalog Number: 9006

*Alastair Iain Johnston*

*Half course (spring term). Hours to be arranged.*

Assesses theoretical arguments and empirical evidence concerning the implications of Chinese economic and military modernization for conflict and cooperation between China and the US. Some issues examined include global arms control, trade, the environment, and regional security.

*Note:* Expected to be given in 2007–08.

**[Government 90ij. Partisanship]**

Catalog Number: 6866

*Russell Muirhead*



*Half course (fall term). Hours to be arranged.*

Partisanship has a bad name: it is often thought an expression of inherited prejudice, petty ambition, narrow interest, or dogmatic ideology. Does it merit more esteem? Readings from historical and contemporary political thinkers such as Aristotle, Hobbes, Burke, Schmidt, Shumpeter, Habermas, Rawls, Mouffe, Hampshire, and Gray.

*Note:* Expected to be given in 2006–07.

### **[Government 90iq. Japan in the Social Sciences]**

Catalog Number: 0663

*Susan J. Pharr*

*Half course (spring term). Hours to be arranged.*

This seminar analyzes politics, society, and policy in contemporary Japan. It brings theories and approaches from political science, sociology, economics, and other disciplines to bear on basic issues and problems relating to Japan in comparative perspective over the period from 1868 to the present, focusing mainly on the past decade. It takes the measure of Japanese democracy; of the socio-political system that is emerging from the “lost decade”; and of Japan’s evolving international role.

*Note:* Expected to be given in 2006–07.

### **Government 90je. The Presidency in Historical Perspective**

Catalog Number: 2850

*Terri Bimes*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

This class will use case studies of past presidential leadership as a lens to gain insight into the leadership challenges confronting more recent presidents. We will examine the ways personality, skill, law, institutional structure, and norms of leadership interact with one another and try to grapple with how much each of these factors shape the president’s ability to lead.

### **Government 90jf. Leaders, Politicians, and Visionaries**

Catalog Number: 3754

*Catherine R. Shapiro*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

What is the role of leadership in US politics? Why have particular individuals—Thomas Jefferson, Elizabeth Cady Stanton, Franklin Delano Roosevelt, Martin Luther King—had tremendous impact on the ways we think and behave politically? Can one learn effective leadership skills? Can one learn to be charismatic? What is the relationship between leaders and followers? How do leaders handle adversity? Students consider classic readings on leadership, analyses of specific US leaders, and conduct independent research.

### **Government 90kl. Marriage and the State in Western Political Theory and Practice**

Catalog Number: 0043

*Tamara Metz*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the relationship between marriage and the state in Western political thought and practice. What role should the state have in recognizing and regulating marriage? Considers the writings of canonical thinkers (including Augustine, Locke, Hegel, Mill) and contemporary





theorists (including Okin, Shanley, Galston). Also focuses on the empirical history of the relationship—in the US and other liberal democracies.

**[Government 90km. The Political Economy of Africa]**

Catalog Number: 3776

*Robert H. Bates*

*Half course (spring term). Hours to be arranged.*

Covers recent writings on the politics and economics of Africa. Emphasis placed on recent writings on political reform (democratization), state disintegrations, and violence.

*Note:* Expected to be given in 2006–07.

**[Government 90kp. Politics, Institutions and Prosperity]**

Catalog Number: 6593

*James A. Robinson*

*Half course (fall term). Hours to be arranged.*

This course examines the role of politics, institutions, culture and geography in explaining why some countries are prosperous and others are not over the long-run. Key questions include: Why were the Americas so backward economically compared to Europe at the time of the conquest initiated in 1492? Why was it Europe and not China where the industrial revolution took place? What explains why African countries are so poor today?

*Note:* Expected to be given in 2006–07.

**Government 90nd. Liberalism and Democracy in Montesquieu, Rousseau, and Tocqueville**

Catalog Number: 4516

*Sharon R. Krause*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Explores the relationship between liberalism and democracy through the political writings of three thinkers who regarded modern liberalism to be in some measure at odds with the tenets and practices of democracy. We consider the meaning, foundations, purposes, and practices of both liberalism and democracy, examine the relationship between them, assess the merits and the dangers of each, and reflect on the nature of their union in contemporary American public life.

**Government 90ni. Racial and Ethnic Politics in the US**

Catalog Number: 0281

*Cara Wong (University of Michigan)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

This course is a seminar on racial and ethnic politics in the US, focusing primarily on African Americans, Latinos, Asian Americans, and Caucasians. It is designed to explore conceptual and methodological issues, while focusing on how racial and ethnic groups shape and are shaped by the American political system. Among the topics to be covered include the meaning of race and ethnicity, the history of racial and immigration politics, prejudice, group participation, and mobilization, political representation, and public opinion.

**Government 90nj. Ethics and International Relations**

Catalog Number: 0328

*Sebastiano Maffettone (Luiss University)*



*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

The seminar explores normative approaches to international relations. Topics include liberalism, realism, nationalism, cosmopolitanism, utilitarianism, feminism, Marxism, postmodernism, and multiculturalism.

**[Government 90oa. Inequality and American Democracy]**

Catalog Number: 2053

*Theda Skocpol*

*Half course (fall term). Hours to be arranged.*

The “rights revolutions” of the 1960s and 1970s removed barriers to full citizenship for African Americans, women, and other formerly marginalized groups. But inequalities of wealth and income have grown since the 1970s. How do changing social and economic inequalities influence American democracy? This seminar explores empirical research and normative debates about political participation, about government responsiveness to citizen preferences, and about the impact of public policies on social opportunity and citizen participation.

*Note:* Expected to be given in 2006–07.

**Government 90ph. Electoral Politics in America and Japan**

Catalog Number: 2135

*Barry C. Burden*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

An examination of elections in the US and Japan that explores their similarities and differences in a broader comparative perspective. Much is paid to the effects of electoral laws on candidates, parties, and voters. Other topics include party systems, incumbency, strategic voting, and corruption.

**Government 90pk. Hobbes**

Catalog Number: 7870

*Eric M. Nelson*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Examines the philosophy of Thomas Hobbes. The course will move chronologically through his works, paying particular attention to the three major iterations of his political theory (*The Elements of Law*, *De Cive*, and *Leviathan*). Themes to be discussed include: Hobbes on sovereignty, representation, property, religion, humanism, and international relations.

**[Government 90q. US–Latin American Relations]**

Catalog Number: 5153

*Jorge I. Domínguez*

*Half course (fall term). Hours to be arranged.*

A study of political and economic relations between the United States and Latin American countries, and of the international relations of Latin America since 1960. Attention also given to foreign policy decision making in the United States and Latin America, and to alternative approaches to the study of international relations and foreign policy.

*Note:* Expected to be given in 2006–07.



**Government 90qa. Community in America**

Catalog Number: 4941

*Robert D. Putnam*

*Half course (fall term). W., 1:30–3:30. EXAM GROUP: 6, 7, 8*

Has the social fabric of America's communities and the civic engagement of its citizens changed over the last generation? Why? Does it matter? What lessons might we find in American history? These questions are at the focus of this seminar.

*Note:* First Meeting: Wednesday, September 21, 9–11 in CGIS-South S-010.

**Government 90qb. International Human Rights and International Law**

Catalog Number: 4995

*Beth A. Simmons*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

This course explores the political conditions—international and domestic—that influence the creation, acceptance, operation, and effectiveness of the international rules governing individual human rights. The course addresses international human rights law and practice in theoretical terms; considers social science methodologies for studying human rights law and practice; and examines in detail the international human rights regime itself. Four meetings are reserved to allow for individual and small group presentation of research projects and findings.

*Note:* Preference given to students who have completed Government 1740.

**Government 90qm. International Relations Theory**

Catalog Number: 9031

*Bear F. Braumoeller*

*Half course (spring term). Tu., 6–8 pm.*

Critical evaluation of modern theories of international relations, with an emphasis on the consistency and logic of theoretical argument as well as the relevance of evidence brought to bear on the question at hand. Subject matter covers, in part, systemic theories, conflict and cooperation, international institutions, domestic institutions and foreign policy, and individual decision processes, with applications in international security, international political economy, and human rights.

**Government 90se. Domestic Politics and the Use of Force**

Catalog Number: 0404

*William G. Howell*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Analyzes the domestic politics of international engagement. Examines how legislatures, courts, and public opinion define the range of options available to the executives who coordinate a military response or otherwise to perceived foreign crises. Also considers whether different kinds of crises are more or less likely to attract the attention of the federal government. While many readings focus on US foreign policymaking, connections are made to other systems of government.

**[Government 90sp. Future of War]**

Catalog Number: 6012

*Stephen P. Rosen*



*Half course (spring term). Hours to be arranged.*

Examines the character and implications of political and technological factors that could affect the future conduct of war.

*Note:* Expected to be given in 2006–07.

### **Government 90td. Comparative Leadership Politics**

Catalog Number: 6687

*Timothy J. Colton*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Do political leaders make a difference? Under what conditions do they matter more or less? How are leaders and leadership qualities formed? The course considers these questions, as played out in a variety of societies and political regimes.

### **Government 90tn. Religion and Politics**

Catalog Number: 0728

*Rachel M. McCleary*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

This seminar introduces students to the major social science theories of religion. We look at the explanatory value of these theories for various aspects of politics: institutions and structures, political parties, civil society and social movements, conflict, and economic development. What effect does religion have on politics within and across societies? How effective are current theories in accounting for the interplay between religion and political life?

### **Government 90ua. Conflict Resolution**

Catalog Number: 2853

*Andrew Harriman Kydd*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

The post-Cold War world is characterized by continuing international and civil conflicts. Some take place along ethnic lines, some along religious lines, some reflect a total breakdown of the state. Some conflicts persist, while others are seemingly resolved. We cover the main approaches to conflict resolution and study some of the salient cases. Topics include: theories of conflict and conflict resolution, negotiation, the role of external powers, mediation, and peacekeeping.

### **Government 90vb. State and Society in a Changing Germany**

Catalog Number: 3710

*Stefan Collignon (London School of Economics)*

*Half course (fall term). Tu., 3–5 and a weekly discussion section to be arranged. EXAM GROUP: 17, 18*

A study of Germany's social market economy and its underlying ideologies in their European context. Examines the historic foundations of recent economic developments and policies in Germany and how policy-making has changed over time. Its interdisciplinary approach draws on political science, economics, philosophy and sociology. Topics covered include: labor markets, corporate governance and federalism, privatization in East Germany and the implications of European integration.



**[Government 90vc. International Law: Theory and Research ]**

Catalog Number: 1382

*Beth A. Simmons*

*Half course (spring term). Hours to be arranged.*

Addresses advanced issues on the links between international law and international politics.

Focus is on theories of international law creation and diffusion, theories of commitment (international law's signaling role) and theories of compliance. Empirical literature includes case studies and quantitative studies in a range of issue areas. Research design and methods are stressed. Grades are based on participation and an individual research paper.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Government 1740.

**Government 90vo. Democratic Theory and the Electoral Process**

Catalog Number: 3640

*Dennis F. Thompson (FAS, Kennedy School)*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

An exploration of the theoretical dimensions of contemporary controversies about the electoral process in the US. Among the topics considered are concepts of representation in racial districting, the meaning of free choice in a two-party system, and the limits of majoritarianism in the governance of elections. Readings in political theory and election law.

**[Government 90w (formerly Government 90rw). Ethics and Biotechnology]**

Catalog Number: 9437

*Michael J. Sandel*

*Half course (fall term). Hours to be arranged.*

The seminar explores the moral and political implications of recent advances in biotechnology. Topics include cloning, stem cell research, genetic engineering, eugenics, and the patenting of life forms.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* A previous course in moral reasoning or political theory is recommended.

**Government 90wl. Strategies of Tyrants**

Catalog Number: 1137

*Stephen P. Rosen and Jacqueline A. Newmyer*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

This course will study the writings of ancient and modern political philosophers about tyrants, and use those analyses to develop ideas about the distinctive strategies of tyrants for war. Those ideas will then be tested against historical examples of tyrants engaged in war.

**[Government 90za. Political Agency]**

Catalog Number: 5631

*Sharon R. Krause*

*Half course (spring term). Hours to be arranged.*

Examines the nature and sources of political agency. What motivates civil disobedience, or tireless advocacy on behalf of the oppressed, or responsible representation, or impartial deliberation, or simple voting? What forms of reason figure in political agency and what sorts of



desires and emotions? What is the relationship between the motives that animate political agency and the ideals and identities that orient it? Readings include Kant, Aristotle, Hume, Arendt, Rawls, Habermas, and others.

*Note:* Expected to be given in 2006–07.

## ***Tutorials***

### **\*Government 91r. Supervised Reading and Research**

Catalog Number: 2444

*Eric Schickler*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading leading to a term paper in a topic or topics not covered by regular courses of instruction.

*Note:* Limited to juniors and seniors. Does not count for concentration. Offered at the discretion of the individual instructors. Written proposal and signature of Head Tutor required.

### **\*Government 97a. Tutorial — Sophomore Year**

Catalog Number: 3023

*Harvey C. Mansfield and Eric Schickler*

*Half course (fall term). Hours to be arranged.*

Issues in American politics used to investigate the fundamental political questions that confront any society. Readings in classics of American politics and of liberal political theory; great speeches; important Supreme Court cases.

*Note:* Fall enrollment required of sophomores.

### **\*Government 97b. Tutorial — Sophomore Year**

Catalog Number: 4403

*Jeffrey Frieden and Andrea M. Gates*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Examines a number of episodes in world history, from the Greek city states to the present, in order to study the interrelationships between domestic and international politics, as well as the ideas of relevant political philosophers.

*Note:* Spring enrollment required of sophomores.

### **\*Government 98r. Tutorial — Junior Year**

Catalog Number: 7179

*Eric Schickler and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Ordinarily taken as two half courses by juniors who have elected the honors program, but open to all junior Government concentrators. Students may take two junior tutorials (Government 98), two junior seminars (Government 90), or one of each. Enrollment determined by a lottery based on student preferences. Students planning on being off campus during part or all of junior year should see the Head Tutor about permission to take junior tutorials or seminars before or after their absence. Undergraduate nonconcentrators may enroll in junior tutorials or seminars if space is available. All students wishing to enroll in Government 90 or 98 must participate in the lottery.



**\*Government 99br. Senior Research Seminar**

Catalog Number: 4609 Enrollment: Limited to 8.

*Jeffry Frieden*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

*Note:* Taken as two half courses by those who have elected the honors program and in order to write their senior theses. The instructor serves as thesis adviser to those enrolled.

*Prerequisite:* Two half courses of Government 98 or 90, in any combination. Enrollment by permission of the instructor.

**\*Government 99cr. Senior Research Seminar**

Catalog Number: 4491 Enrollment: Limited to 8.

*William G. Howell*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

*Note:* Taken as two half courses by those who have elected the honors program and in order to write their senior theses. The instructor serves as thesis adviser to those enrolled.

*Prerequisite:* Two half courses of Government 98 or 90, in any combination. Enrollment by permission of the instructor.

**\*Government 99r. Tutorial — Senior Year**

Catalog Number: 3652

*Eric Schickler and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Taken as two half courses by those who have elected the honors program and in order to write their senior theses.

*Prerequisite:* Two half courses of Government 98 or 90, in any combination.

***Political Methodology and Formal Theory***

***For Undergraduates and Graduates***

**Government 1005. The Practice of Research in Political Science**

Catalog Number: 4607

*Barry C. Burden*

*Half course (spring term). Tu., Th., at 11; . EXAM GROUP: 13*

A first course in the methods of research as practiced across a broad range of the social sciences. It is meant to enable you to be critical in your evaluations of claims about politics, society, and the economy. Students learn how to construct and test hypotheses, design research projects, and bring data to bear on political questions. The course is especially helpful to thesis writers.

**[Government 1010. Survey Research Methods]**

Catalog Number: 8482

*D. Sunshine Hillygus*

*Half course (spring term). Hours to be arranged.*

Political surveys and public opinion polls are fundamental to the study of mass political behavior, and they play an increasingly prominent role in electoral politics and governance. This course introduces students to the history, theories, and methods of survey research. We will





focus on the design, development, execution, interpretation and analysis of political surveys and polls. Topics include survey mode (mail, telephone, in-person, web), measurement and questionnaire design, survey sampling, and survey error.

*Note:* Expected to be given in 2006–07.

### **Government 1015. Strategic Models of Political Economy**

Catalog Number: 5117

*John W. Patty*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

A first course in formal methods in political economy. The course is meant to introduce students to modeling techniques as well as the practice of applying such techniques to the study of political science and economics. Though theoretically motivated, the course will also discuss the role of empirical evaluation in model building and testing.

### ***Cross-listed Courses***

### **[Social Analysis 46. Thinking about Politics: A Rational Choice Approach]**

### ***Primarily for Graduates***

### **Government 2000. Introduction to Quantitative Methods I**

Catalog Number: 2281

*Kevin M. Quinn*

*Half course (fall term). M., 4–6. EXAM GROUP: 9*

An introduction to statistical research in political science with a focus on applied linear regression.

### **Government 2001. Advanced Quantitative Research Methodology**

Catalog Number: 8941

*Gary King*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Introduces theories of inference underlying most statistical methods and how new approaches are developed. Examples include discrete choice, event counts, durations, missing data, ecological inference, time-series cross sectional analysis, compositional data, causal inference, and others.

*Prerequisite:* Government 1000 or the equivalent.

### **[Government 2002. Topics in Quantitative Methods]**

Catalog Number: 8168

*Kevin M. Quinn*

*Half course (spring term). Hours to be arranged.*

Explores various topics in quantitative methods. Focuses on the robust estimation of generalized linear models but also covers some time series cross section methods.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Government 2000 and Government 2001 or equivalent, or permission of the instructor.



**[\*Government 2003. Hierarchical Bayesian Modeling]**

Catalog Number: 3713

*Kevin M. Quinn*

*Half course (spring term). Hours to be arranged.*

Provides students a solid understanding of Bayesian inference and Markov chain Monte Carlo methods. Topics covered include: Bayesian treatment of the linear model, Markov chain Monte Carlo methods, assessing model adequacy, and hierarchical models.

*Note:* Expected to be given in 2007–08. Government 1000 and Government 2000, the equivalents, or permission of the instructor are prerequisites.

**Government 2005. Formal Political Theory I**

Catalog Number: 1719

*John W. Patty*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

A graduate seminar on micro-economic modeling, covering price theory, decision theory, social choice theory, and game theory.

*Note:* Students enrolled in this seminar are required to meet twice weekly for Economics 2020a lectures.

**Government 2006. Formal Political Theory II**

Catalog Number: 5487

*Elizabeth M. Penn*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Continuation of Government 2005.

*Note:* Students enrolled in this seminar are required to meet twice weekly for Economics 2020b lectures.

**Government 2007. Political Economics**

Catalog Number: 2094

*James Robinson*

*Half course (spring term). M., W., 6–7:30 pm. EXAM GROUP: 9*

This course covers the basic analytical approaches to political economy and their application.

**[\*Government 2009. Methods of Political Analysis ]**

Catalog Number: 1080 Enrollment: Limited to 15.

*Peter A. Hall*

*Half course (spring term). Hours to be arranged.*

Covers the issues and techniques central to designing and researching a good dissertation, whether quantitative or qualitative, including principles of research design, case selection, comparison, measurement, and causal relations, with many practical examples.

*Note:* Expected to be given in 2007–08. Open to all doctoral students, regardless of year, and to advanced undergraduates.

**[Government 2010. Strategies of Political Inquiry]**

Catalog Number: 7421

*Robert D. Putnam and Michael J. Hiscox*



*Half course (fall term). Hours to be arranged.*

Introduces how to do research—assessing scholarly literatures, identifying interesting questions, formulating research designs, learning methods, and writing up results. We discuss each for both quantitative and qualitative studies.

*Note:* Expected to be given in 2006–07. Primarily for graduate students; also taken by undergraduates preparing for senior thesis research.

### **Government 2012. Formal Models in American Politics**

Catalog Number: 8864

*John W. Patty*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines formal models of American politics, focusing on elections, legislative bargaining, and delegation. Considers existing literature (both classic and current) as well as the application of formal techniques to new topics in American politics.

## ***Political Thought and Its History***

### ***For Undergraduates and Graduates***

### **Government 1039. Democratic Theory**

Catalog Number: 5297

*Jane Mansbridge (Kennedy School)*

*Half course (spring term). M., W., 1:10–2:30; . EXAM GROUP: 6, 7*

This course traces the evolution of western democratic theory from the ancient Greeks to the present, with particular emphasis on the institutions that influenced and were in turn influenced by these evolving theories. Readings from Aristotle and Hobbes through Habermas and Foucault, with one foray into Islamic thought. The course has two aims: to give an appreciation of the history behind the ideas that shaped today's democracies and to pose critical normative questions for today.

*Note:* Offered jointly with the Kennedy School as PAL 216.

### **Government 1050. Sex, Gender, and Political Theory**

Catalog Number: 8786

*Tamara Metz*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Through critical engagement with feminist political theorists and those they critique, this course examines the roles of sex and gender in Western political theory and practice. Topics include: ideas of human nature; public and private spheres; citizenship; marriage, work and the family.

### **[Government 1056. Identity Politics: Pluralism and Democracy]**

Catalog Number: 3415

*Nancy Lipton Rosenblum*

*Half course (fall term). Hours to be arranged.*

Examines the political theory of pluralism. What is the difference between identity politics and interest group politics? When should democracies recognize and accommodate particular religious, racial, cultural groups (or others) in awarding rights and benefits, providing



exemptions from law, and guaranteeing political representation? How much self-government should groups be permitted to exercise over their members? Readings combine legal cases and historical and contemporary political theory.

*Note:* Expected to be given in 2006–07.

**Government 1059 (formerly Government 2080). Topics in Political Philosophy: Natural Right**

Catalog Number: 4345 Enrollment: Limited to 20.

*Harvey C. Mansfield and William Kristol*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Discovery and development of the question of natural right: Is justice by nature or humanly made? Readings ancient and modern from Heraclitus, Plato, Aristotle, the Stoics, Aquinas, Machiavelli, Spinoza, Hegel, and commentators.

*Note:* A seminar open to both undergraduates and graduates.

**Government 1060. The History of Ancient and Medieval Political Philosophy**

Catalog Number: 4978

*Harvey C. Mansfield*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Philosophical debates about politics from Plato to Leonardo Bruni.

**Government 1061. The History of Modern Political Philosophy**

Catalog Number: 5035

*Harvey C. Mansfield*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Political philosophy from Machiavelli to Nietzsche, with attention to the rise and complex history of the idea of modernity.

**[Government 1067. Liberalism]**

Catalog Number: 7139

*Glyn Morgan*

*Half course (spring term). Hours to be arranged.*

This course examines liberalism as a political doctrine. Focuses on four theorists (J. S. Mill, Friedrich Hayek, Robert Nozick, and John Rawls) and four topics (the market, the family, the state, and international society).

*Note:* Expected to be given in 2006–07.

**Government 1070. Theories of Rights**

Catalog Number: 4505

*Sharon R. Krause*

*Half course (spring term). W., 1–3;. EXAM GROUP: 6, 7*

Examines several different arguments for rights within classical liberalism (Locke, Kant, and J.S. Mill) and then considers contemporary debates about the meaning, basis, scope, and exercise of rights. Topics include natural rights, utility and rights, autonomy and rights, rights and the welfare state, human rights, multiculturalism and group rights, civil rights and reform, environmentalism and animal rights, and current critiques of rights.



**[Government 1080. American Political Thought]**

Catalog Number: 4417

*Russell Muirhead*

*Half course (fall term). Hours to be arranged.*

American political thought, with a focus on the period 1760–1865. Topics include religion, empire and revolution, natural rights, federalism, race, pluralism, and national identity. Readings drawn mainly from primary sources, including the writings of Franklin, Madison, Hamilton, Adams, Webster, Calhoun, Anthony, Stanton, Douglas, and Lincoln. Course will also consider contemporary interpretations of the American political tradition and public philosophy.

*Note:* Expected to be given in 2007–08.

**Government 1082. What is Property?**

Catalog Number: 2723

*Eric M. Nelson*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

This course will investigate the major theories of property in the Western political tradition and address such key questions as: How do we come to own things? What claims do others have on the things we own? Is the community the ultimate owner of all goods? Do property rights really exist, and, if so, what is their source? Readings will include the Bible, Plato, Aristotle, Cicero, More, Harrington, Locke, Marx, and Nozick.

**Government 1084. Political Philosophy and Human Rights**

Catalog Number: 0332

*Sebastiano Maffettone (Luiss University)*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

The course explores the different ways political philosophers have thought about human rights. Among the questions we consider: Are there certain basic rights that are owed to all human beings, simply in virtue of their humanity? Is the attempt by liberal democratic countries to promote human rights around the world open to the charge of “moral imperialism”? Do groups have rights, or only individuals? Can basic human rights conflict?

**[Government 1092. The Past and Future of the Left]**

Catalog Number: 6197

*Roberto Mangabeira Unger (Law School)*

*Half course (spring term). Hours to be arranged.*

Political and social theory reconsidered from the vantage point of a major tradition in modern politics. Explaining and overcoming the disorientation of the Left in contemporary societies. The rise and fall in the nineteenth and twentieth centuries of the idea of a progressive alternative to established institutions. The directions the Left today is taking, can take, and should take. The relation of programmatic thought to the understanding of change and constraint.

*Note:* Expected to be given in 2006–07. Offered jointly with the Law School as 44170-31.

**Government 1093. Ethics, Biotechnology, and the Future of Human Nature**

Catalog Number: 4613

*Michael J. Sandel and Douglas A. Melton*

*Half course (spring term). M., 2–4 and a weekly section to be arranged. EXAM GROUP: 7, 8*



Explores the moral, political, and scientific implications of new developments in biotechnology. Does science give us the power to alter human nature? If so, how should we exercise this power? The course examines the science and ethics of stem cell research, human cloning, sex selection, genetic engineering, eugenics, genetic discrimination, and human-animal hybrids. Meets jointly with Biological Sciences 60.

*Note:* May not be taken concurrently with BS 60. May not be taken for credit if BS 60 has already been taken.

### ***Cross-listed Courses***

**Economics 2080. Economics and Politics: The Foundations of Economics in Political Theory**

**Economics 2325. World Development**

**[Historical Study B-34. The World in 1776]**

**History 1474. Republics and Republicanism: Conference course**

**Moral Reasoning 22. Justice**

**Moral Reasoning 50. The Public and the Private in Politics, Morality, and Law**

**Moral Reasoning 58. Slavery in Western Political Thought**

**[Moral Reasoning 64. Ethics and Everyday Life]**

**[Moral Reasoning 68. Legalism: Ruly and Unruly Thought and Practices]**

**[Moral Reasoning 70. Rights]**

### ***Primarily for Graduates***

**\*Government 2030. Political Concepts: Field Seminar**

Catalog Number: 0551

*Dennis F. Thompson (FAS, Kennedy School)*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Reading and discussion of rival accounts of the basic concepts of political thinking.

*Note:* Open to qualified undergraduates.

**[\*Government 2034. Ethics and Economics]**

Catalog Number: 4652

*Michael J. Sandel*

*Half course (spring term). Hours to be arranged.*

The seminar explores the moral limits of markets. Topics to include organ sales, pollution permits, for-profit prisons, mercenary armies, vote-selling, the patenting of life forms, and the commercialization of medicine, law, and higher education.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Intended for graduate students.

**[Government 2046. Roman Politics and Political Thought]**

Catalog Number: 7880

*Richard Tuck*

*Half course (fall term). Hours to be arranged.*

Rome was the first mass electoral democracy, whose political structures and history have been



formative for all subsequent politics. We study the politics of Republican and early Imperial Rome, and the writings of their philosophers, historians, and lawyers.

*Note:* Expected to be given in 2006–07.

**[\*Government 2049. Philosophical Foundations of Rational Choice Theory]**

Catalog Number: 3552

*Richard Tuck*

*Half course (fall term). Hours to be arranged.*

This course will look first at the idea of rationality in modern economics, and then at the application of this idea to a number of important issues in political science, culminating in the question of social co-operation.

*Note:* Expected to be given in 2006–07. Open to qualified undergraduates.

**Government 2079. Hume**

Catalog Number: 6648

*Richard Tuck*

*Half course (spring term). Tu., 12–2. EXAM GROUP: 14, 15*

This course is an opportunity to study in depth the ethical and political writings of David Hume, including the Treatise, the Enquiries, the Essays, the History of England, and his minor works.

*Note:* Though primarily for graduates, it is open to qualified undergraduates.

**Government 2084. Political Agency**

Catalog Number: 8634

*Sharon R. Krause*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Explores the relationship between the standards of right that justify political actions and the moral psychology that animates political agents. Readings include Aristotle, Hume, Kant, Arendt, Rawls, Habermas, Foucault, and others.

**\*Government 2090. Ethics and Biotechnology**

Catalog Number: 0942

*Michael J. Sandel*

*Half course (fall term). M., 4:45–6:45. EXAM GROUP: 9*

The seminar explores the moral and political implications of recent advances in biotechnology. Topics include cloning, stem cell research, genetic engineering, eugenics, and patenting of life forms.

*Note:* Offered jointly with the Law School as 93370-11. Meets at the Law School. Open to GSAS students with permission of the instructor.

***Comparative Government***

***For Undergraduates and Graduates***

**Government 1100. Political Economy of Development**

Catalog Number: 7687

*Robert H. Bates*





*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Comparative analysis of political economy of development drawing on case studies from Africa, Asia, the Middle East, and Latin America.

**[Government 1102. Democratization and Economic Reform]**

Catalog Number: 6232

*Yoshiko M. Herrera*

*Half course (spring term). Hours to be arranged.*

A comparative investigation of market-oriented economic reforms and transitions to democracy in Latin America, Eastern Europe, and East Asia. Considers the bases of democracy and economic prosperity, and analyzes the consolidation of political institutions under conditions of economic crisis, as well as the possibilities for economic reform under conditions of weak political institutions.

*Note:* Expected to be given in 2007–08.

**Government 1103. Nationalism and Ethnic Politics**

Catalog Number: 5792

*Dmitry P. Gorenburg*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Examines the role of ethnicity and nationalism in political life. We will analyze the major conceptual approaches and theoretical debates surrounding the interaction between cultural differences and politics within states. Topics include the meaning of ethnicity, theories of identity politics, the roles of language, religion and race in determining ethnic identity, the distinction between ethnicity and nationalism, the persistence of nationalism, nationalism and democracy, causes and consequences of ethnic mobilization, dealing with cultural diversity, causes of ethnic violence, countering ethnic violence, and the future of the nation in a globalizing world.

**[\*Government 1115. Collective Action, Protest Movements, and Politics]**

Catalog Number: 5508 Enrollment: Limited to 15.

*Grzegorz Ekiert*

*Half course (fall term). Hours to be arranged.*

Reviews the contemporary literature on collective action, protest, and social movements. Focuses primarily on political factors facilitating protest, repertoires of contention, the role of cultural factors and the construction of identities through collective action, and methods of studying collective action. Cases drawn from different regions and historical periods.

*Note:* Expected to be given in 2007–08. Preference given to seniors and juniors. Weekly meetings are divided between lecture and discussion.

**[\*Government 1158. Culture and Politics]**

Catalog Number: 8848

*Samuel P. Huntington*

*Half course (fall term). Hours to be arranged.*

The political implications of the similarities and differences among the world's major cultures (European, American, Russian, Arab, Indian, Chinese, Japanese, Latin American, African). Is globalization replacing them with a single global culture? What are the consequences of the



spread of American culture throughout the world? How do cultures affect economic development and effectiveness, democracy and democratization, governmental performance, social and economic equity, international negotiations, alliances, and antagonisms, war and peace?

*Note:* Expected to be given in 2006–07. Enrollment limited.

### **[Government 1170. Nation-Building and Democracy in the Development of Europe]**

Catalog Number: 2585

*Daniel F. Ziblatt*

*Half course (spring term). Hours to be arranged.*

The course introduces students to the political development of western and eastern Europe, providing students with key historical context for understanding the challenges of the European Union's 2004 eastward enlargement. The main focus will be on the issues of feudalism, state-formation, revolution, industrialization, nationalism, and democracy to explore the origins and consequences of the historic divide between the two halves of Europe.

*Note:* Expected to be given in 2006–07.

### **[Government 1180. Comparing Welfare States]**

Catalog Number: 7293

*Margarita Estevez-Abe*

*Half course (spring term). Hours to be arranged.*

Can contemporary welfare states cope with demographic aging? Can they help women balance work and family? Are some countries doing better than others? Can others emulate the more successful? This course tackles these questions by examining different institutional structures of welfare states and politics behind them. Drawing on the theoretical literature developed to explain welfare states in advanced industrial countries, this course also considers welfare issues in other regions of the world.

*Note:* Expected to be given in 2006–07.

### **Government 1183. European Integration: Political, Philosophical, and Legal Perspectives**

Catalog Number: 4875

*Glyn Morgan*

*Half course (spring term). Tu., Th., at 11 and a weekly section to be arranged. EXAM GROUP: 13*

Postwar Europe has embarked upon a project of integration. Why? Where will it end? Can we expect a "United States of Europe?" Does European integration spell the end of NATO and the rise of a European nationalism? What do eurosceptics want? Is there a European model of society? How will Europe assimilate its minorities? Does Europe—as some far-sighted thinkers have argued—need a Superstate?

### **Government 1186. The Political Economy of European Integration**

Catalog Number: 2467

*Stefan Collignon (London School of Economics)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12*

How does the European Union work? An analysis of the process of European integration focusing on economic developments and the emerging governance of the EU. The course gives an overview of European integration, its theories, common policies and constitutional issues. It



then covers Europe's monetary framework, the ECB, Stability and Growth Pact, and labor markets, concluding with external economic relations (euro, dollar, yen) and the prospects for further integration.

### **Government 1197. The Political Economy of Africa**

Catalog Number: 9130

*Robert H. Bates and James Robinson*

*Half course (fall term). M., W., F., at 2; . EXAM GROUP: 7*

The basic social science literature on Africa's development. Particular emphasis on political economy.

### **Government 1203. East European Politics and Societies**

Catalog Number: 7078

*Grzegorz Ekiert*

*Half course (fall term). W., F., at 10; . EXAM GROUP: 3*

General introduction to East European politics focusing on the countries outside the former Soviet Union. Examines critical periods and dynamics of political and economic changes in the region from the end of World War I to the recent enlargement of the European Union.

*Note:* Preference given to juniors and seniors. Weekly meetings are divided between lecture and discussion.

### **Government 1206. Contemporary Political Islam**

Catalog Number: 0371

*Emad Shahin (The American University in Cairo)*

*Half course (spring term). Th., 2-4; . EXAM GROUP: 16, 17*

This course provides students with an understanding of the phenomenon of political Islam and its impact on today's politics. It analyzes the Islamic order and the model(s) that inspires modern Islamist activists; examines the ideas of main ideologues of contemporary Islamic movements; and presents case studies of mainstream and radical Islamic groups. The course concludes with a critical analysis of the future of political Islam and its relations with the West.

### **Government 1235. Genocide**

Catalog Number: 8404

*Jens Meierhenrich*

*Half course (fall term). M., 2-4. EXAM GROUP: 7, 8*

This lecture course examines the theory and history of genocide. It compares and contrasts the dynamics of genocide in Turkey, Germany, Cambodia, the former Yugoslavia, Rwanda, and Sudan to shed light on the origins of "final solutions" and their disastrous effects. By examining possible and impossible solutions to this problem of "radical evil," the course further assesses the conditions for, and limitations to, achieving justice in domestic politics and international affairs.

### **Government 1243. Russian Politics in Transition**

Catalog Number: 1982

*Timothy J. Colton*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

An examination of politics in the Russian Federation since the collapse of Soviet communism,



focusing on the factors promoting and impeding the development of a stable democratic regime. Topics include the general dynamics of political and economic transformation, leadership, institution building, political culture, regionalism and federalism, electoral and party politics, state-society relations and interest groups, and Russian nationalism and neo-imperialism.

**[Government 1246. Comparative Politics of the Post-Soviet States]**

Catalog Number: 8809

*Yoshiko M. Herrera*

*Half course (spring term). Hours to be arranged.*

A comparative examination of politics and government among the 15 successor states to the Soviet Union, focusing on variation in the development of institutions, the degree of democratization, state strength, and economic prosperity. Topics include mass politics and political action institutions, nationalism and identity politics, and economic transformations since the end of the USSR in 1991.

*Note:* Expected to be given in 2006–07.

**[Government 1273. The Political Economy of Japan]**

Catalog Number: 1365

*Margarita Estevez-Abe*

*Half course (spring term). Hours to be arranged.*

Examines the history of Japan's political economy, its recent success and its current problems. Why did Japan succeed in becoming the first non-Western society to industrialize? Did Japan develop a particular brand of capitalism? What role did the political system play? What are its advantages and disadvantages of the Japanese model? Can it overcome the current technological changes and global pressures? Or is it no longer a viable model to emulate?

*Note:* Expected to be given in 2006–07.

**[Government 1280. Government and Politics of China]**

Catalog Number: 1643

*Elizabeth J. Perry*

*Half course (fall term). Hours to be arranged.*

General introduction to the politics of contemporary China. Basic objectives are to provide a working knowledge of Chinese political programs and practices, and to encourage a critical evaluation of the positive and negative aspects of China's socialist experiment.

*Note:* Expected to be given in 2006–07.

**Government 1286. Politics of Identity in Central Asia**

Catalog Number: 3547

*John S. Schoeberlein*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Examines how identity concepts are mobilized in Central Asian politics. Focuses on post-Soviet Central Asia, while providing background in historical and comparative contexts. Topics include: formation of current national, regional and religious identities, national ideologies as part of state-building and regime loyalty, and roles of identity in opposition mobilization, conflicts, and international relations. Theories of political identity are explored as developed in the literature on Central Asia and comparative cases.



*Note:* Intended primarily for advanced undergraduates and graduate students; some background in Islam and/or the former Soviet Bloc desirable.

**Government 1295. Comparative Politics in Latin America**

Catalog Number: 4241

*Steven R. Levitsky*

*Half course (spring term). M., W., 2–3:30 and a weekly section to be arranged. EXAM GROUP: 7, 8*

Examines dynamics of political and economic change in modern Latin America, focusing on Argentina, Brazil, Chile, Cuba, Mexico, and Venezuela. Topics include the rise of populism and import-substituting industrialization, revolutions and revolutionary movements, the causes and consequences of military rule, the politics of economic reform, democratic transitions, and democratic consolidation. The course analyzes these phenomena from a variety of different theoretical perspectives, including cultural, dependency, institutionalist, and leadership-centered approaches.

**\*Government 1297. Corruption and Quality of Governance in a Comparative Perspective**

Catalog Number: 6870 Enrollment: Limited to 25.

*Bo Rothstein (Goteborg University)*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Trustworthy, reliable, impartial, uncorrupted, and competent government institutions are widely regarded as important for democratic, social, and economic development. This course will address three questions: How should the quality of government be conceptualized and measured? When, how, and for what does it matter? What can countries do to improve the quality of their governing institutions?

***Cross-listed Courses***

**Economics 2325. World Development**

**[Economics 2410g. Political Economics]**

**Foreign Cultures 48. The Cultural Revolution**

**[Historical Study A-53. The Chinese Revolutionary Tradition]**

**[Historical Study A-71. Constitutionalism]**

**Historical Study A-73. The Political Development of Western Europe**

**Historical Study B-64. The Cuban Revolution, 1956-1971: A Self-Debate**

**[History 1466. Vichy France: Conference Course]**

**\*History 2782. The Economic History of Latin America: Seminar**

**Social Analysis 52. The Political Economy of Development**

***Primarily for Graduates***

**\*Government 2105. Comparative Politics: Field Seminar**

Catalog Number: 0154

*Timothy J. Colton and Elizabeth J. Perry*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Surveys topics in comparative politics (both the developed and the developing world), including



the rise of the modern state; institutions of government; interest mediation; democracy and authoritarianism; revolution; political parties; mass and elite political behavior; political economy.

*Note:* Preference given to FAS Government graduate students.

**[Government 2114. Analysis of the Political Economy of Development]**

Catalog Number: 7029

*Robert H. Bates*

*Half course (fall term). Hours to be arranged.*

Students will attend lectures of Social Analysis 52 and then meet as a separate seminar. The readings and discussion will focus on the political economy of agriculture and industrialization; of ethnicity and political conflict; and of state formation and political collapse.

*Note:* Expected to be given in 2006–07.

**Government 2122. Civil Wars: Theory and Policy**

Catalog Number: 0885

*Monica D. Toft (Kennedy School)*

*Half course (fall term). Tu., Th., 11:40–1. EXAM GROUP: 13, 14*

This course introduces students to the theoretical and comparative study of civil wars. The course aims to provide students with solid analytical and historical foundations and highlight the policy dilemmas associated with civil wars.

*Note:* Open to junior and senior undergraduates with instructor's approval. Offered jointly with the Kennedy School as ISP-409. Meets at the Kennedy School.

**Government 2131. Comparative Politics of Latin America**

Catalog Number: 3337

*Jorge I. Domínguez*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Topics: historical paths, economic strategies, inflation and exchange rates, international explanations of domestic outcomes, authoritarian and democratic regimes, state institutions, the Roman Catholic Church, social movements, parties and party systems, and voters and voting behavior.

**[Government 2138. Gender, Markets and Politics]**

Catalog Number: 2747

*Margarita Estevez-Abe*

*Half course (spring term). Hours to be arranged.*

Women in different countries fare better or worse in terms of their family life, work life, and political life. Examines the causes underlining these differences.

*Note:* Expected to be given in 2007–08. Open to qualified undergraduates.

**\*Government 2140. Conceptualizing and Measuring Identity**

Catalog Number: 7502

*Alastair Iain Johnston and Yoshiko M. Herrera*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Analyzes the concept of identity in social science, especially history and political science.



Focuses on defining identity more precisely and exploring new measurement techniques.  
Examines classic works on ethnic, class, gender, religious, and transnational identity.

**Government 2142. Constitutional Law**

Catalog Number: 0429

*Cindy Skach*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

This seminar explores the construction, deliberation, and interpretation of "higher law" in contemporary democracies.

**Government 2148. Civil Society, West and East**

Catalog Number: 4675

*Susan J. Pharr and Grzegorz Ekiert*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Focusing in particular on European and Asian settings, the seminar examines debates over what civil society is, notions of public space and social capital, and the role of civil society in political transitions.

**[\*Government 2158. Political Institutions and Economic Policy]**

Catalog Number: 6448 Enrollment: Limited to 16.

*Kenneth A. Shepsle and Jeffry Frieden*

*Half course (spring term). Hours to be arranged.*

We explore the role of political institutions in the formation, implementation, and regulation of economic policy. Theories from positive political theory and comparative and international political economy are examined and applied to substantive issue areas.

*Note:* Expected to be given in 2006–07.

**[\*Government 2160. Politics and Economics]**

Catalog Number: 7780 Enrollment: Limited to 16.

*James E. Alt and Torben Iversen*

*Half course (fall term). Hours to be arranged.*

Covers the political economy of policymaking and institutional change. Readings include a mixture of foundational approaches and recent research, covering a variety of methodological perspectives. The topical emphasis is on democracy, accountability, inequality, redistribution, and growth.

*Note:* Expected to be given in 2006–07.

**[Government 2162. Perspectives on Political Economy]**

Catalog Number: 1999

*Robert H. Bates and Kenneth A. Shepsle*

*Half course (fall term). Hours to be arranged.*

A microperspective on various topics in political economy. This year, the focus will be on demography (the size and composition of populations and the structure of the family); its impact and politics; and the impact of politics on it.

*Note:* Expected to be given in 2006–07.





**Government 2176. Social and Political Change in the Political Economies of Europe**

Catalog Number: 7083

*Peter A. Hall and Torben Iversen*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Examines the transformation of the west European democracies since World War II. How did the distinctive couplings of an open economy, government activism, and welfare regimes create and change an ‘embedded liberalism’? How did the globalization of capital markets, technology, women in the labor market, postindustrialization, and electoral systems influence the policy response and allocate the costs of adjustment in Europe and the US?

**[Government 2213. Comparative Politics of Post-Socialism]**

Catalog Number: 6876

*Timothy J. Colton and Grzegorz Ekiert*

*Half course (fall term). Hours to be arranged.*

A research seminar designed to define an agenda for the comparative analysis of political developments among post-socialist systems. Emphasis placed on the formation of research proposals, methods of analysis, theory-building, and the presentation of comparative empirical research.

*Note:* Expected to be given in 2006–07.

**Government 2214. Government and Politics in the Post-Soviet States**

Catalog Number: 0922

*Timothy J. Colton and Yoshiko M. Herrera*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

The collapse of the Soviet Union was followed by the formation of 15 independent states that manifest remarkable variation in political regimes, institutions, and policies. The course examines this variation and ways of explaining it.

**[Government 2218. Topics in Russian Politics]**

Catalog Number: 0872

*Timothy J. Colton*

*Half course (spring term). Hours to be arranged.*

A research seminar on selected problems in the politics and government of post-Soviet Russia. Intended for students with some prior study of the subject.

*Note:* Expected to be given in 2007–08.

**Government 2262. Politics and Political Economy in Japan**

Catalog Number: 7446

*Susan J. Pharr*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Japanese politics and political economy in comparative perspective. Analyzes the: 1955 system and post-1993 changes; political economy debates; changing role of parties and bureaucracy; electoral system effects; social policy choices; and problems of marginality.

*Note:* Open to qualified undergraduates.



**[\*Government 2275. Politics and Reform in the Giants: India and China Compared]**

Catalog Number: 8791

*Elizabeth J. Perry*

*Half course (spring term). Hours to be arranged.*

A graduate seminar that will examine the problems of rule and reform in the world's two most populous polities: China and India. Issues of statebuilding, central-local relations, economic reform, etc., will be considered.

*Note:* Expected to be given in 2006–07. Open only to graduate students, with preference given to Government doctoral students.

**Government 2284. Chinese Authors on Chinese Politics**

Catalog Number: 7556

*Roderick MacFarquhar and Andrew G. Walder (Stanford University)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

An examination of how PRC authors have analyzed the politics of their country and comparisons with relevant Western accounts.

*Note:* Open to qualified undergraduates.

*Prerequisite:* A good reading knowledge of Chinese and previous course work on Chinese politics.

**Government 2285. Political Science and China**

Catalog Number: 1566

*Elizabeth J. Perry*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

This graduate seminar gives students control over the secondary literature on Chinese politics, with special attention to competing theoretical and methodological approaches.

*Note:* Open only to graduate students who have taken the equivalent of an undergraduate course in Chinese politics.

**[\*Government 2286. Research Seminar on Chinese Politics]**

Catalog Number: 7361

*Elizabeth J. Perry*

*Half course (spring term). Hours to be arranged.*

Focuses on primary sources for the study of Chinese politics: archives, documents, gazetteers, yearbooks, interviews, etc. Students write a major research paper, using primary sources.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Government 2285.

***American Government, Public Law and Administration***

***For Undergraduates and Graduates***

**Government 1300. The Politics of Congress**

Catalog Number: 8868

*Mary Fitzgerald (James Madison University)*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*



Intended as a broad survey of the legislative branch of the American government. Topics include representation and elections, party leadership, committee power, rules and procedures, and inter-branch relations. Special attention devoted to changes in Congress, as well as current political and scholarly controversies such as congressional war powers, the influence of parties, and campaign finance. The place of Congress in the US separation of powers system will be a theme throughout the course.

### **Government 1350. Political Parties and Interest Groups**

Catalog Number: 8825

*Terri Bimes*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

This course covers the historical development of parties and interest groups in the US and the ways in which parties and interest groups influence individual voting behavior, elections, and the governmental process. Special attention will be paid to the alleged culture wars between the two parties and to the role parties and interest groups have played in recent elections.

### **Government 1352. Campaigns and Elections**

Catalog Number: 5665

*Mary Fitzgerald (James Madison University)*

*Half course (fall term). M., W., at 1 and a weekly section to be arranged. EXAM GROUP: 6*

Examines US congressional and presidential campaigns and elections, including candidates and the incentives and constraints they face, the role of political parties, and the evolution of the presidential nomination process. Considers how voters acquire information and make vote choices. Discussion of media coverage, negative advertising, campaign finance, and electoral reform.

### **[Government 1360. American Public Opinion]**

Catalog Number: 8196

*Jennifer Jerit (Southern Illinois University, Carbondale)*

*Half course (spring term). Hours to be arranged.*

Analyzes several related questions about contemporary American public opinion. What do Americans know and think about politics? Why do people hold these particular opinions? How do politicians, the media, and other people influence an individual? How do researchers know what they do about public opinion? Finally, in what ways does public opinion affect (or not affect) public policy?

*Note:* Expected to be given in 2006–07.

### **Government 1370. Psychology of Politics in the US**

Catalog Number: 4116

*Cara Wong (University of Michigan)*

*Half course (spring term). Tu., Th., at 11; and a section to be arranged. EXAM GROUP: 13*

At each level of the American political system, outcomes are shaped not only by existing laws and institutions, but also by the behavior of human beings—citizens, representatives, judges, political operatives etc. This class examines how models of behaviors such as rationality, decision-making, groupthink, risk-taking, cognitive dissonance, and others shape what we know about mass and elite political behavior in the US.



**Government 1510. American Constitutional Law**

Catalog Number: 0383

*Richard H. Fallon*

*Half course (fall term). Tu., Th., 1–2:30, and a section to be arranged. EXAM GROUP: 15, 16*

Provides an introduction to contemporary American constitutional law, with a principal focus on decisions by the Supreme Court of the US. Topics to be studied include freedom of speech and religion, guarantees of due process and equal protection, and the powers of Congress and the courts.

**\*Government 1540. The American Presidency**

Catalog Number: 4925 Enrollment: Limited to 150. Enrollment limit applies to fall term only.

Signature of course head applies to fall term only.

*William G. Howell (spring term) and Roger B. Porter (Kennedy School) (fall term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 11:30–1; Spring: Tu., Th., at 11.*

*EXAM GROUP: Fall: 13, 14; Spring: 13*

*Fall Term:* Course analyzes the development and modern practice of presidential leadership.

Examines the institutional presidency, presidential selection, decision making, and the relationship of the presidency with the executive branch, Congress, courts, interest groups, the press and the public. Considers the political resources and constraints influencing the President's ability to provide leadership in the US political system. *Spring Term:* Examines the historical and institutional foundations of presidential power; the president's relationships with Congress, the bureaucracy, courts, interest groups, and the public; and the influence presidents wield in domestic and foreign policymaking. Special efforts will be made to incorporate theories of political organization and power that have emerged in the field of political science.

*Note:* During the fall term, offered jointly with the Kennedy School as PAL-115. Meets at FAS.

**[\*Government 1582. Who Are We? Issues of American National Identity]**

Catalog Number: 9119

*Samuel P. Huntington*

*Half course (fall term). Hours to be arranged.*

A limited enrollment discussion course for both graduate and undergraduate students. Topics include: ethnic, racial, cultural, and ideological concepts of American identity; the relation between national and other identities; contemporary debates over national identity; immigration, assimilation, and Anglo-Hispanic biculturalism; America as the “exceptional” or “universal” country; the problem of the lack of an opposing “evil empire;” the impact of different conceptions of identity on America's international role.

*Note:* Expected to be given in 2007–08.

***Cross-listed Courses***

**[Moral Reasoning 74. The Theory and Practice of Republican Government]**

**[Social Analysis 54. American Society and Public Policy]**

**Social Analysis 66. Race, Ethnicity, and Politics in the United States**

***Primarily for Graduates***



**\*Government 2305. American Government and Politics: Field Seminar**

Catalog Number: 2305

*Eric Schickler and William G. Howell*

*Half course (fall term). W., 10–12. EXAM GROUP: 3, 4*

Designed to acquaint PhD candidates in Government with a variety of approaches that have proved useful in examining important topics in the study of American government and politics.

**Government 2310. Social Capital and Public Affairs: Research Seminar**

Catalog Number: 7051

*Robert D. Putnam*

*Half course (spring term). W., 4–6; First Meeting: M., Jan 30, 4–6 pm, Littauer 382, KSG.*

EXAM GROUP: 9

Topics in the relationship between politics and civil society in the US.

*Note:* Offered jointly with the Kennedy School as API-420. Meets at the Kennedy School.

**[\*Government 2326. American Political Development and Contemporary Politics]**

Catalog Number: 8914

*Theda Skocpol*

*Half course (spring term). Hours to be arranged.*

Analyzes the US polity employing an institutionalist and developmental approach sensitive to processes and structural transformations. Examines empirical studies of changing state capacities, public policies, and patterns of civic engagement and interest intermediation.

*Note:* Expected to be given in 2006–07. Open to Government graduate students and other graduate students by permission.

**Government 2332. Political Economy of Regulation**

Catalog Number: 4635

*Daniel P. Carpenter*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

A theoretically driven examination of the role of market-government relations. We begin with several schools of regulation theory and then move to consider three different policy domains of federal regulation: energy and environmental, workplace and consumer safety, and pharmaceuticals/health.

**[Government 2335. Power in American Society]**

Catalog Number: 2649

*Jennifer L. Hochschild*

*Half course (spring term). Hours to be arranged.*

Considers theories of power in American political science and political theory; how to measure and use these theories to understand political stratification choices. Attention to race, gender, class, legal standing, policies, and institutional frameworks.

*Note:* Expected to be given in 2006–07.

**\*Government 2340. Proseminar on Inequality and Social Policy II**

Catalog Number: 5491

*William Julius Wilson and Theda Skocpol*



*Half course (spring term). Th., 3:10–5. EXAM GROUP: 17, 18*

Considers the effects of policies and institutions in creating or reducing inequality in the US and other advanced democracies, as well as the reciprocal effects of inequality on political activity and policy choices.

*Note:* Offered jointly with the Kennedy School as HLE-512. Meets at the Kennedy School.

**Government 2392. American Political Ideologies**

Catalog Number: 6079

*Jennifer L. Hochschild*

*Half course (spring term). Th., 12–2. EXAM GROUP: 14, 15*

Combines American political thought and popular ideologies--canonical works (Federalist Papers, Tocqueville, Lincoln) are read for their explicit philosophy as well as assumptions about power and status. Also examines the social, economic, and political context of the writings.

**Government 2470. Political Behavior**

Catalog Number: 3591

*Barry C. Burden*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

An examination of mass and elite political behavior in the US, with an emphasis on elections, voting behavior, political participation, political inequality, and political organizations.

**[\*Government 2490. The Political Economy of the School]**

Catalog Number: 3399

*Paul E. Peterson*

*Half course (fall term). Hours to be arranged.*

Examination of political and economic influences on education policy and governance.

Background in statistics expected.

*Note:* Expected to be given in 2006–07. Limited enrollment. Permission of instructor required for all students who are not graduate degree candidates in the FAS Department of Government. Offered jointly with the Kennedy School as HLE-348. Meets at the Kennedy School.

**[Government 2500. Bureaucratic Politics and Behavior]**

Catalog Number: 8621

*Daniel P. Carpenter*

*Half course (fall term). Hours to be arranged.*

A theoretically and empirically intensive examination of public bureaucracies in the US and other nations. Empirical issues include administrative behavior, bounded rationality, delegation, hierarchy, organizational capacity, bureaucratic learning, redundancy, bureaucratic delay, and political influence.

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

Government students interested in taking the following course must consult with the Director of Graduate Studies:

**\*Sociology 296a. Proseminar on Inequality and Social Policy I**



## ***International Relations***

### ***For Undergraduates and Graduates***

#### **[Government 1730. War and Politics]**

Catalog Number: 6806

*Stephen P. Rosen*

*Half course (fall term). Hours to be arranged.*

Explores the organized use of violence for the purposes of the state, with particular attention paid to the question of strategy and the sources of victory.

*Note:* Expected to be given in 2006–07.

#### **[Government 1735. Arms and Arms Control]**

Catalog Number: 1366

*Andrew Harriman Kydd*

*Half course (fall term). Hours to be arranged.*

Introduces students to the topic of arms racing, arms control and the proliferation of weapons of mass destruction. Covers the causes and consequences of arms racing, theory and practice of arms control, nuclear, chemical and biological weapons proliferation, and arms control issues in Europe, Korea, South Asia, and the Middle East.

*Note:* Expected to be given in 2006–07.

#### **Government 1740. International Law**

Catalog Number: 7406

*Beth A. Simmons*

*Half course (fall term). Tu., Th., 10–11:30; . EXAM GROUP: 12, 13*

An introduction to public international law for students of international relations. The primary purpose is to enhance students' understanding of the ways in which international law orders international politics. Emphasis is on the substantive rules of international law, the relationship between law and politics, and cases that illustrate the issues. Topics include international human rights law, international economic law and institutions, the use of force, war crimes, and terrorism.

#### **Government 1747. Contemporary Global Politics**

Catalog Number: 4644

*Samuel P. Huntington*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Patterns of conflict, cooperation, and change in contemporary international politics, focusing primarily on security issues. Topics include general theories and interpretations of contemporary global politics, changes in the distribution of power among states, the most prevalent and dangerous forms of violent conflict, the resurgence of Islam, demographic change, communal conflict, rogue states, terrorism, state decay, alternative ways of promoting global order.

*Note:* Students who took Government 2784 for credit may not take this course for credit.

#### **Government 1749. Political Psychology of International Relations**

Catalog Number: 0629





*Rose McDermott (University of California, Santa Barbara)*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course introduces students to methods and theories from social and cognitive psychology along with an explanation of how these concepts have been or can be applied to the study of international relations.

**[Government 1760. International Relations of East Asia]**

Catalog Number: 2733

*Alastair Iain Johnston*

*Half course (fall term). Hours to be arranged.*

Introduction to the historical, military, political, economic, and cultural features of interstate relations in East Asia and the Pacific. The course also presents some theoretical and methodological tools for more systematic analysis of these issues. The goal is to understand changing levels of conflict and cooperation in the region.

*Note:* Expected to be given in 2007–08.

**Government 1780. International Political Economy**

Catalog Number: 0272

*Strom Thacker (Boston University)*

*Half course (spring term). Tu., Th., 3:30–5 and a weekly section to be arranged. EXAM GROUP: 17, 18*

Analyzes the interaction of politics and economics in the international arena. Focuses on international trade, investment, monetary, and financial relations. Includes discussion of developed, developing, and formerly centrally-planned nations.

**Government 1792. Intellectual Foundations of American Foreign Policy**

Catalog Number: 3922

*Stephen P. Rosen and William Kristol*

*Half course (fall term). Tu., 2–4; . EXAM GROUP: 16, 17*

President Bush ran for office promising “a distinctly American internationalism.” Does American history suggest there is a distinctly American foreign policy? If so, what are its sources? What have been the tensions between the desires to promote liberty abroad and to preserve it at home? These and other issues will be explored through a study of key moments and debates in the history of American foreign policy, from the 1790s through the present.

**\*Government 1968. International Politics in the Middle East**

Catalog Number: 9335 Enrollment: Limited to 150.

*Carol R. Saivetz*

*Half course (spring term). M., W., at 11;. EXAM GROUP: 4*

Explores interaction between indigenous Middle East conflicts and policies of the outside powers. Examines roots of the Arab-Israeli-Palestinian conflict and addresses questions such as: Did the Cold War always exacerbate the local conflicts in the region or did it actually dampen and control them as well? In the aftermath of the collapse of the Oslo peace process, September 11, and the war in Iraq, what is the future role for the outside powers?



**Government 1982. Chinese Foreign Policy, 1949–2000**

Catalog Number: 8908

*Alastair Iain Johnston*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Introduction to the descriptive history of China's international relations with special focus on different theoretical explanations for changes in foreign policy behavior (e.g. polarity, history, ideology, leadership, bureaucracy, among others).

*Note:* No prior background in China or international relations theory required.

***Cross-listed Courses***

**[Historical Study A-51. The Modern World Economy, 1873-2000]**

**Moral Reasoning 28. Ethics and International Relations**

**[Quantitative Reasoning 38. The Strategy of International Politics]**

***Primarily for Graduates***

**\*Government 2710. International Relations: Field Seminar**

Catalog Number: 8310

*Michael J. Hiscox and Alastair Iain Johnston*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A survey of the field. Suitable for students preparing for general examinations.

*Note:* Limited to Government graduate students.

**[\*Government 2720. The Politics of International Monetary and Financial Relations]**

Catalog Number: 5442

*Jeffrey Frieden*

*Half course (fall term). Hours to be arranged.*

Covers two interrelated topics. The first is the political economy of international finance: sovereign lending, international banking, international financial integration. The second is the politics of international monetary relations: monetary regimes, inter-state monetary interactions, national macroeconomic policy.

*Note:* Expected to be given in 2006–07.

**\*Government 2721. Psychological Approaches to International Relations**

Catalog Number: 5404

*Rose McDermott (University of California, Santa Barbara)*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

This course will examine the relevance of the findings from experimental psychology to the behavior of individual decision makers in international relations. Topics will include prospect theory, attribution theory, and evolutionary psychology.

**Government 2726. The Use of Force: Political and Moral Criteria**

Catalog Number: 7160

*J. Bryan Hehir (Kennedy School)*

*Half course (spring term). Tu., Th., 2:40–4. EXAM GROUP: 16, 17*



The course examines normative discourse about the use of force. Attention will be paid to the "Just War/Just Defense" ethic, and will assess the ethic in light of challenges to it, including current ones.

*Note:* KSG students have priority. Offered jointly with the Divinity School as 2853 and with the Kennedy School of Government as ISP-340. Meets at KSG.

**[\*Government 2738. Game Theory and International Relations ]**

Catalog Number: 7791

*Andrew Harriman Kydd and Michael J. Hiscox*

*Half course (fall term). Hours to be arranged.*

A survey of applications of game theory to international relations. Focuses on the central debates in international relations theory and how game theory has contributed to advancing and understanding them.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Government 2005 or permission of instructor.

**[Government 2740. Models of Politics]**

Catalog Number: 7181

*Bear F. Braumoeller*

*Half course (spring term). Hours to be arranged.*

Focuses on the history of, and new directions in, the quantitative study of politics, especially but not exclusively those relating to international affairs. "Quantitative" will be interpreted quite broadly to include both formalized theories and empirical/statistical testing.

*Note:* Expected to be given in 2006–07.

**[\*Government 2742. Statistics and Deadly Quarrels]**

Catalog Number: 4314

*Bear F. Braumoeller*

*Half course (fall term). Hours to be arranged.*

Critical survey of statistical research on conflict and war.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Two terms of statistics or equivalent or permission of instructor.

**\*Government 2744. Empirical Studies of International Politics**

Catalog Number: 3302

*Bear F. Braumoeller and Beth A. Simmons*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Course will expose students to how various kinds of statistical models have been used in security and IPE. Focus will be on the nature, assumptions, and appropriateness of models and interpretation of results.

*Prerequisite:* First term statistics class or concurrent enrollment in same, or permission of instructors.

**Government 2755. International Political Economy**

Catalog Number: 7392

*Beth A. Simmons and Jeffry Frieden*



*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

A graduate-level introduction to the theoretical and empirical literature on the political economy of international trade, monetary, regulatory, and investment policies.

**[\*Government 2761. International Organization]**

Catalog Number: 8442

*Lisa L. Martin*

*Half course (fall term). Hours to be arranged.*

International politics increasingly means institutionalized interaction among states. We examine the sources and effects of international institutions. It draws on institutional theories from many fields: international relations, American politics, economics. The purpose is to generate topics for research.

*Note:* Expected to be given in 2006–07.

**Government 2782. State Failure and Civil War**

Catalog Number: 0742

*Robert H. Bates*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

The study of modern works on civil wars, terrorism, and state failure.

**[\*Government 2784. War, Peace, and Global Politics]**

Catalog Number: 1915 Enrollment: Limited enrollment

*Samuel P. Huntington*

*Half course (spring term). Hours to be arranged.*

Patterns of conflict and cooperation in contemporary global politics: relations among the major powers; economic, military, and “soft” power; weapons proliferation; ethnic conflicts; neo-realism, the end of history, transnationalism, and the clash of civilizations.

*Note:* Expected to be given in 2006–07.

**Government 2785. Religion in Global Politics**

Catalog Number: 4773

*Samuel P. Huntington and David Little (Divinity School)*

*Half course (spring term). W., 1–3; . EXAM GROUP: 6, 7*

The historical and contemporary roles of religious beliefs and religious organizations with respect to war and peace, civil conflict, national identities, legitimacy of governments, human rights, democracy, conflict management, conceptions of world order. Case studies.

*Note:* Open to qualified undergraduates. Offered jointly with the Kennedy School as ISP-432 and with the Divinity School as 2816. Meets at FAS.

**\*Government 2790. Central Issues of American Foreign Policy**

Catalog Number: 3567

*Graham T. Allison, Jr. (Kennedy School)*

*Half course (spring term). Hours to be arranged.*

Examination of central issues of American foreign policy today. For each issue, analysis of the international environment, identification of specific policy options, consideration of pros and



cons, reflection on processes for choice and action.

*Note:* Offered jointly with the Kennedy School as ISP-202. Meets at the Kennedy School.

### **Government 2791. Comparative Foreign and Security Policy**

Catalog Number: 7696

*Alastair Iain Johnston*

*Half course (fall term). Tu., 12–2. EXAM GROUP: 14, 15*

Focus is on the theory, methods, and data used in the empirical analysis of the foreign security policies of states. Examines the sources of state preferences, the structural and domestic constraints on state action, and foreign policy change.

*Prerequisite:* Prior training in international relations theory strongly recommended.

### **Government 2797. European Foreign Policies**

Catalog Number: 0008

*Stanley Hoffmann and Louise M. Richardson*

*Half course (fall term). Hours to be arranged.*

### **[Government 2900. US–Latin American Relations]**

Catalog Number: 8020

*Jorge I. Domínguez*

*Half course (fall term). Hours to be arranged.*

Studies US-Latin American political, military, and economic relations and Latin American international relations. Includes foreign policy decision making in the US and Latin America and alternative approaches to the study of the subject.

*Note:* Expected to be given in 2006–07.

### ***Graduate Courses of Reading and Research***

#### **\*Government 3000. Reading and Research**

Catalog Number: 3391

*James E. Alt 1593, Robert H. Bates 1251, Terri Bimes 4690, Bear F. Braumoeller 3330, Barry C. Burden 2524, Daniel P. Carpenter 4509, Timothy J. Colton 2269, Jorge I. Domínguez 3823, Grzegorz Ekiert 2718, Margarita Estevez-Abe 3565 (on leave 2005-06), Jeffry Frieden 1627, Andrea M. Gates 4694, Dmitry P. Gorenburg 5315 (fall term only), Peter A. Hall 7272, Yoshiko M. Herrera 1622, D. Sunshine Hillygus 4617 (on leave 2005-06), Michael J. Hiscox 4104, Jennifer L. Hochschild 3785 (on leave fall term), Stanley Hoffmann 1757 (on leave spring term), William G. Howell 4342, Samuel P. Huntington 1765, Torben Iversen 1250 (on leave fall term), Alastair Iain Johnston 3213, Gary King 1723, Sharon R. Krause 3353, Andrew Harriman Kydd 3965 (on leave fall term), Steven R. Levitsky 2395, Roderick MacFarquhar 7856, Harvey C. Mansfield 1731, Lisa L. Martin 1048, Rachel M. McCleary 4400, Tamara Metz 4998, Glyn Morgan 2184, Russell Muirhead 1012 (on leave 2005-06), Pippa Norris 2218, John W. Patty 4999, Elizabeth M. Penn 5000, Elizabeth J. Perry 3074 (on leave spring term), Paul E. Peterson 2114 (on leave 2005-06), Susan J. Pharr 1518 (on leave spring term), Robert D. Putnam 6193, Stephen P. Rosen 2721, Nancy Lipton Rosenblum 3786, Carol R. Saivetz 3341, Michael J. Sandel 7065, Eric Schickler 4643, Catherine R. Shapiro 4047, Kenneth A. Shepsle 1421 (on leave 2005-06), Beth A. Simmons 4487, Cindy Skach 3386 (on leave fall term), Theda Skocpol*



1387, *Dennis F. Thompson (FAS, Kennedy School)* 1426, *Richard Tuck* 1704, *Sidney Verba* 4072, and *Daniel F. Ziblatt* 4641 (on leave 2005-06)

*Note:* Requires written work of sufficient quantity and quality so that the course is equivalent to a lecture course or a seminar. Students who want supervised reading without substantial written work should take TIME-C (catalog number 8899) instead.

**\*Government 3000a. Reading and Research Seminar**

Catalog Number: 4143

*Members of the Department*

Small seminar on special topics. May be arranged with faculty listed under Government 3000. Requires written work as does Government 3000, but also involves regular class meetings.

***Research Workshops***

All Department of Government graduate students who have passed generals are eligible to enroll in one of the following research workshops. Others may attend with permission of instructor.

**\*Government 3004. Research Workshop in American Politics**

Catalog Number: 8566

*Barry C. Burden* 2524 and *Theda Skocpol* 1387

*Full course (indivisible). M., 2–4.*

A forum for the presentation and discussion of research in progress by graduate students (second year and above), faculty, and visiting scholars. Anyone working on contemporary American politics or on US political development welcome. Occasional presentations by invited speakers.

**\*Government 3005b. Research Workshop in International Relations: New Approaches to Security Studies**

Catalog Number: 1016

*Bear F. Braumoeller* 3330, *Andrew Harriman Kydd* 3965 (on leave fall term), and *Stephen P. Rosen* 2721

*Full course (indivisible). Tu., 12–2.*

Research workshop for advanced graduate students working on dissertation proposals in security studies.

**\*Government 3006. Research Workshop in Comparative Politics**

Catalog Number: 0910

*Yoshiko M. Herrera* 1622, *Samuel P. Huntington* 1765, and *Roderick MacFarquhar* 7856

*Full course (indivisible). W., 4–6.*

The workshop offers advanced graduate students an opportunity to present their work-in-progress, benefit from critiques of it, and discuss theoretical and methodological issues.

*Note:* Doctoral students from other departments and faculties admitted if space permits.

**\*Government 3007. Research Workshop in Political Economy**

Catalog Number: 0968

*James E. Alt* 1593, *Robert H. Bates* 1251, *Jeffrey Frieden* 1627, *Michael J. Hiscox* 4104, *Elizabeth M. Penn* 5000, and *Beth A. Simmons* 4487



*Full course (indivisible). M., 12–2.*

Intended for graduate students in the third year and above, this course welcomes scholarship of all types and on all aspects of political economy. Intended to provide a venue in which to develop and to debate work in progress.

**\*Government 3009. Research Workshop in Applied Statistics**

Catalog Number: 8142

*Alberto Abadie (Kennedy School) 5277, Garrett M. Fitzmaurice (Public Health) 4067, Lee Fleming (Business School) 3839, Guido W. Imbens (University of California, Berkeley) 2671 (fall term only), Gary King 1723, Kevin M. Quinn 4737, James M. Robins (Public Health) 1492, Donald B. Rubin 7966, and Christopher Winship 3189*

*Full course (indivisible). W., 12–2.*

A forum for graduate students, faculty, and visiting scholars to present and discuss work in progress. Features a tour of Harvard's statistical innovations and applications with weekly stops in different disciplines. Occasional presentations by invited speakers.

## Health Policy

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on the Doctor of Philosophy in Health Policy***

Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*) (*Chair*)

Alyce S. Adams, Assistant Professor of Ambulatory Care and Prevention (*Medical School*)

Nancy Dean Beaulieu, Assistant Professor of Business Administration (*Business School*)

Robert J. Blendon, Professor of Health Policy and Political Analysis (*Public Health, Kennedy School*)

David Bloom, Clarence James Gamble Professor of Economics and Demography (*Public Health*)

Allan M. Brandt, Professor of the History of Science (*FAS*) and Amalie Moses Kass Professor of the History of Medicine (*Medical School*)

Daniel P. Carpenter, Professor of Government

Nicholas A. Christakis, Professor of Medical Sociology (*Medical School*) and Professor of Sociology (*FAS*)

Paul D. Cleary, Professor of Medical Sociology (*Medical School*)

David M. Cutler, Otto Eckstein Professor of Applied Economics and Dean for the Social Sciences

Norman Daniels, Mary B. Saltonstall Professor of Population Ethics (*Public Health*)

Amy C. Edmondson, Professor of Business Administration (*Business School*)





Arnold M. Epstein, John H. Foster Professor of Health Care Policy and Management (*Public Health*)

Erica M. Field, Assistant Professor of Economics

Richard G. Frank, Margaret T. Morris Professor of Health Economics (*Medical School*)

Susanne J. Goldie, Associate Professor of Health Decision Science (*Public Health*)

James K. Hammitt, Professor of Economics and Decision Sciences (*Public Health*) (*on leave 2005-06*)

Robert S. Huckman, Assistant Professor of Business Administration (*Business School*)

Haiden A. Huskamp, Associate Professor of Health Economics (*Medical School*)

Gary King, David Florence Professor of Government

Karen M. Kuntz, Associate Professor of Health Decision Science (*Public Health*)

Peter V. Marsden, Professor of Sociology

Marie C. McCormick, Professor of Pediatrics (*Medical School*) and Sumner and Esther Feldberg Professor of Maternal and Child Health (*Public Health*)

Thomas G. McGuire, Professor of Health Economics (*Medical School*)

Barbara J. McNeil, Ridley Watts Professor of Health Care Policy and Professor of Radiology (*Medical School*)

Peter J. Neumann, Associate Professor of Policy and Decision Sciences (*Public Health*)

Sharon-Lise T. Normand, Professor of Health Care Policy (*Medical School, Public Health*)

Gary Pisano, Harry E. Figgie Jr. Professor of Business Administration (*Business School*)

Meredith B. Rosenthal, Assistant Professor of Health Economics and Policy (*Public Health*)

Donald B. Rubin, John L. Loeb Professor of Statistics

Stephen B. Soumerai, Professor of Ambulatory Care and Prevention (*Medical School*)

David G. Stevenson, Assistant Professor of Health Policy (*Medical School*)

B. Katherine Swartz, Professor of Health Economics (*Public Health*) (*Director of Graduate Studies*)

Kimberly M. Thompson, Associate Professor of Risk Analysis and Decision Science (*Public Health*) (*on leave 2005-06*)

Milton C. Weinstein, Henry J. Kaiser Professor of Health Policy and Management and Biostatistics (*Public Health*) and Professor of Medicine (*Medical School*)

Alan M. Zaslavsky, Professor of Health Care Policy (*Medical School*)

Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy (*Kennedy School*)

### ***I. Undergraduate Instruction in Health Policy***

The Interfaculty Initiative in Health Policy offers support for the study of health policy by undergraduate students concentrating in all concentrations or committees. Students taking Government 91r should select the section on health policy. For information on this and for a copy of “A Course Guide for Undergraduates Interested in Health Policy, Harvard University,” please visit the Health Policy website at [www.fas.harvard.edu/~healthpl](http://www.fas.harvard.edu/~healthpl) or contact Joan Curhan, Administrative Director, Interfaculty Initiative in Health Policy at [joan—curhan@harvard.edu](mailto:joan—curhan@harvard.edu).

### ***Courses of Interest***



[Economics 2460. Health Economics Workshop](#)

[General Education 186. Introduction to Health Care Policy](#)

[\[\\*General Education 187. The Quality of Health Care in America\]](#)

[\\*Government 91r. Supervised Reading and Research](#)

[Quantitative Reasoning 24. Health Economics and Policy](#)

## ***II. Graduate Program in Health Policy***

The PhD in Health Policy, awarded by the Faculty of Arts and Sciences, draws upon the resources of five faculties: the Faculty of Arts and Sciences, the School of Public Health, the Medical School, the John F. Kennedy School of Government, and the Harvard Graduate School of Business Administration. This degree is intended primarily for students seeking teaching careers in institutes of higher learning and/or research careers in policy.

Students in the PhD Program in Health Policy choose a concentration and meet specific curriculum requirements in one of seven disciplines: decision sciences, economics, ethics, evaluative science and statistics, management, medical sociology, or political analysis. In addition to choosing a concentration, students specialize in one of five areas of policy interest: environmental health, health care services, international health, mental health, or public health.

Decision Sciences (Professor Milton C. Weinstein, Chair). Decision sciences are the collection of quantitative techniques that are used for decision making at the individual and collective level. They include decision analysis, cost-benefit and cost-effectiveness analysis, decision modeling, and behavioral decision theory. The concentration in decision sciences prepares students for research careers that involve the application of these methods to health problems.

Economics (Professor Joseph P. Newhouse, Chair). The concentration in economics focuses on the economic behavior of individuals, providers, insurers, and federal, state, and local governments as their actions affect health and medical care. In addition to examining the literature on health economics, the training emphasizes microeconomic theory, econometrics, public finance, industrial organization, labor economics, and interactions with other disciplines, including clinical medicine. This concentration prepares students for research and teaching careers as health economists.

Ethics (Professor Norman Daniels, Chair). The ethics concentration integrates quantitative, qualitative, and normative approaches to the analysis of ethical issues in health policy and clinical practice. Increasingly, the investigation of ethical issues in medicine and health policy has not only drawn on normative ethics and political philosophy, but has included empirical research concerning attitudes and practices in clinical and broader institutional settings. A grasp of normative theories and tools is important because ethical principles and approaches are explicitly cited in the formulation of particular health policies at both the macro and micro level. Students in this track will focus on developing skills in a range of disciplines, with the goal of evaluating how ethical and socio-cultural values shape—and should shape—health policies as well as clinical and public health practices. Students with a strong background in ethics and political philosophy will have a chance to deepen that understanding and apply it to issues in



health policy, while at the same time acquiring necessary quantitative skills. Students with degrees or training in related fields, such as law or medicine or public health, will acquire both normative and quantitative skills needed for research and teaching in ethics and health policy.

Research in health policy and ethics would include such topics as: policies for the allocation of scarce resources to individuals (e.g., human organs for transplantation, newly developed drugs, hospital beds) and across categories of patients (treatment vs. prevention for HIV/AIDS, or for HIV/AIDS vs. malaria); policies for care at the beginning and end of life; evaluation of informed consent protocols and their effectiveness; issues of equity in the evaluation of policies determining access to health services and the reduction of risk factors; policies responding to cross-cultural variation in ethical norms; ways in which health professionals are educated; policies regarding the balance between the individual and the collective (e.g., in bio-terrorism, epidemic control, etc.). While not abandoning the concerns of traditional work in bioethics, the program aims to produce students who are interested in the ethics of population health. All students in this track will develop core skills for the conduct of both normative analysis and empirical research in ethics.

Evaluative Science and Statistics (Professor Stephen Soumerai and Professor Alan M. Zaslavsky, Co-Chairs). Training in this concentration in health services and policy evaluation will enable students to evaluate the effects of a wide range of health services and policies (e.g., insurance, health care quality improvement, and cost-containment) on behaviors, access, processes and quality of care, health outcomes or costs. Students in this concentration will develop proficiency in experimental and quasi-experimental research design, statistics, other methodological approaches (e.g., epidemiology, program evaluation, qualitative methods, and survey design) and relevant social sciences. Previous students in this track have used innovative methodological and statistical approaches to study, for example: the effects of drug coverage on access to essential medications in Medicare; the effects of employment on population health; international differences in outcomes of medical care for acute myocardial infarction; the health effects of HMO reductions and subsequent government increases in maternity lengths of stay; and effects of regulatory changes in legal drinking ages on health and mortality.

Management (Assistant Professor Nancy Dean Beaulieu and Professor Amy C. Edmondson, Co-Chairs). The management concentration emphasizes the organizational, managerial, and strategic issues facing health care providers, payers, and other players in the health care market. Students will learn how theories and concepts from fields such as technology and operations management, organizational behavior, organizational economics, and competitive strategy can be applied to health care organizations. Areas of research include: the design and improvement of health care delivery processes, approaches for improving health care quality and productivity, development and adoption of new medical technologies, financial incentives in health care, new role of patients as consumers of health care, appropriate ownership and organizational structure of hospitals and other health care providers, and management of professional health care staff. Students will be required to take MBA, economic theory, and quantitative methods courses, as well as the Management and Markets course, at the Harvard Business School. We expect students completing this track to find jobs in academic and research institutions which have an interest in the impact of management on health care.



Medical Sociology (Professor Paul D. Cleary and Professor Peter V. Marsden, Co-Chairs). In this track, students will learn about and contribute to knowledge in several research areas that are extremely important to health policy, including the study of professions and professional behavior; the structure of health care organizations and systems; the impact of organizational and professional change on the structure of medical work; organizational improvement programs and their evaluations; evaluation of intervention programs; the diffusion of innovations across providers and organizations; and the behavior of patients and consumers—including consumer evaluations of health care quality and patient perspectives on the process and outcomes of care.

Political Analysis (Professor Robert J. Blendon, Chair). This concentration is intended for students who wish to do research on political behavior and its effect in the health field. Students will study theories of public opinion formation, voting behavior, legislative behavior, interest group influence, and political strategy as well as examine the role of both political institutions and the media on influencing health policy outcomes. The research methodologies most utilized in this track include survey research methods and quantitative statistical methods appropriate for large-scale databases. Graduates of this concentration will likely teach and do research on the politics of health care and will be involved with government, professional, and consumer groups on research projects related to the politics of public policy in the health field.

Applications: The application deadline is mid-December for admission in the following fall. To request admissions material, applicants should contact the Harvard University Graduate School of Arts and Sciences, Byerly Hall, 8 Garden Street, Cambridge, MA 02138, (617-495-5315), or visit the Graduate School of Arts and Sciences website at [www.gsas.harvard.edu/admissions](http://www.gsas.harvard.edu/admissions) to apply on-line or to request an application. Important additional information on financial aid and other aspects of the PhD Program in Health Policy are available from Joan P. Curhan, Director, PhD Program in Health Policy, 79 John F. Kennedy Street, Cambridge, MA 02138, email: [joan—curhan@harvard.edu](mailto:joan—curhan@harvard.edu), telephone: (617-496-5412). Website: [www.fas.harvard.edu/~healthpl](http://www.fas.harvard.edu/~healthpl).

### **Health Policy Courses**

#### **Health Policy 2000. Core Course in Health Policy**

Catalog Number: 4522

*Richard G. Frank (Medical School), Joseph P. Newhouse (Kennedy School, Medical School, Public Health), and Alan M. Zaslavsky (Medical School)*

*Full course (indivisible). Tu., Th., 4–6. EXAM GROUP: 18*

Topics include the financing and organization of health care, public health, political analysis, medical manpower, health law and ethics, technology assessment, prevention, mental health, long-term care, and quality of care.

*Note:* Required for doctoral candidates in Health Policy and open to others by permission of instructor. Offered jointly with the Kennedy School as HCP-597 and with the School of Public Health as HPM 246.

#### **\*Health Policy 3000. Doctoral Dissertation Research**

Catalog Number: 8422



*Members of the Committee*  
Dissertation research.

**\*Health Policy 3002. Graduate Reading Course: Mental Health Policy**

Catalog Number: 3528

*Richard G. Frank (Medical School) 1371 and Joseph P. Newhouse (Kennedy School, Medical School, Public Health) 2425*

**\*Health Policy 3010. Graduate Reading Course: Ethics**

Catalog Number: 9241

*Norman Daniels (Public Health) 4722 and Allan M. Brandt 3031*

**\*Health Policy 3020. Graduate Reading Course: Political Analysis**

Catalog Number: 3781

*Robert J. Blendon 2712*

Participants present their own ongoing research on the politics surrounding health policy and discuss recent research drawn from various methodological approaches. Graduate students, faculty, and visiting scholars are welcome to present research at all stages.

**\*Health Policy 3030. Graduate Reading Course: Medical Sociology**

Catalog Number: 1826

*Paul D. Cleary (Medical School) 2713*

**\*Health Policy 3040hf. Research Seminar in Health Policy**

Catalog Number: 8870

*B. Katherine Swartz (Public Health) 2461*

*Half course (throughout the year). Hours to be arranged.*

**[\*Health Policy 3050hf. Racial and Ethnic Disparities in Health Care Access and Outcomes]**

Catalog Number: 9717

*B. Katherine Swartz (Public Health) 2461, Robert J. Blendon 2712, and David M. Cutler 2954*  
*Half course (throughout the year). Hours to be arranged.*

The seminar focuses on methodological issues connected to investigating reasons for racial and ethnic disparities in health care access and outcomes that have been observed in the US.

*Note:* Expected to be given in 2006–07. Faculty and graduate students in the PhD programs in health policy, social policy, sociology, economics, and government are particularly encouraged to participate.

**\*Health Policy 3060. Graduate Reading Course: Decision Sciences**

Catalog Number: 2133

*Milton C. Weinstein 3043*



**\*Health Policy 3070. Graduate Reading Course: Economics**

Catalog Number: 7439

*Joseph P. Newhouse (Kennedy School, Medical School, Public Health) 2425*

**\*Health Policy 3080. Graduate Reading Course: Evaluative Science and Statistics**

Catalog Number: 9516

*Stephen B. Soumerai (Medical School) 1906*

**\*Health Policy 3090. Graduate Reading Course: Management**

Catalog Number: 2492

*Amy C. Edmondson (Business School) 4613 and Nancy Dean Beaulieu (Business School) 4308*

***Courses of Interest***

**\*Economics 3460chf. Research in Health Economics**

## History

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of History***

Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*Chair*)

Emmanuel K. Akyeampong, Harvard College Professor and Professor of History and of African and African American Studies (*on leave 2005-06*)

Caitlin Anderson, Lecturer on History (*fall term only*)

David R. Armitage, Professor of History

Sven Beckert, Professor of History (*Director of Undergraduate Studies*)

David Blackburn, Coolidge Professor of History

Ann M. Blair, Henry Charles Lea Professor of History

Johan L. Blussé, Erasmus Lecturer on the History and Civilization of the Netherlands and Flanders (*Leiden University*) (*spring term only*)

Sugata Bose, Gardiner Professor of Oceanic History and Affairs (*on leave 2005-06*)

Daniel V. Botsman, Associate Professor of History

Vincent Brown, Assistant Professor of History (*on leave 2005-06*)

Elena I. Campbell, Lecturer on History

Joyce E. Chaplin, Professor of History

John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs

Lizabeth Cohen, Howard Mumford Jones Professor of American Studies (*on leave 2005-06*)

Alan R. Cooper, Visiting Assistant Professor of History, Associate of the Department of History





*(Colgate University) (fall term only)*

Nancy F. Cott, Jonathan Trumbull Professor of American History

Madelon de Keizer, Erasmus Lecturer on the History and Civilization of the Netherlands and

Flanders *(Netherlands Institute for War Documentation) (fall term only)*

Emma Dench, Visiting Professor of the Classics and of History *(Birkbeck College, University of London)*

Paul Dutton, Visiting Professor of History *(Simon Fraser University) (spring term only)*

Caroline M. Elkins, Hugh K. Foster Associate Professor of African Studies

Drew Gilpin Faust, Lincoln Professor of History

Niall Ferguson, Laurence A. Tisch Professor of History *(on leave fall term)*

Alison F. Frank, Assistant Professor of History

Heidi Gengenbach, Lecturer on History *(Boston University)*

Peter E. Gordon, Professor of History *(on leave 2005-06)*

James Hankins, Professor of History

Joachim Henning, Visiting Professor of History *(Goethe University) (fall term only)*

Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies *(on leave 2005-06)*

Patrice Higonnet, Robert Walton Goelet Professor of French History

Christopher P. Jones, George Martin Lane Professor of the Classics and of History *(on leave 2005-06)*

Jenny Jordan, Lauro De Bosis Post-Doctoral Fellow in Romance Languages and Literatures,

Lauro de Bosis Lecturer on History *(University of California, Los Angeles) (fall term only)*

Cemal Kafadar, Vehbi Koc Professor of Turkish Studies

Edward L. Keenan, Andrew W. Mellon Professor of History

William C. Kirby, Edith and Benjamin Geisinger Professor of History and Dean of the Faculty of Arts and Sciences

Mark A. Kishlansky, Frank B. Baird, Jr. Professor of History *(on leave 2005-06)*

James T. Kloppenberg, Harvard College Professor and David Woods Kemper '41 Professor of American History

Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations *(on leave fall term)*

Angeliki E. Laiou, Dumbarton Oaks Professor of Byzantine History *(on leave 2005-06)*

Jill M. Lepore, Professor of History

Mary D. Lewis, Assistant Professor of History *(on leave spring term)*

Malinda Maynor Lowery, Assistant Professor of History

Charles S. Maier, Leverett Saltonstall Professor of History

Erez Manela, Assistant Professor of History

Terry D. Martin, John L. Loeb Associate Professor of the Social Sciences

Kenneth R. Maxwell, Visiting Professor of History

Ernest R. May, Charles Warren Professor of American History

Michael McCormick, Francis Goelet Professor of Medieval History *(on leave 2005-06)*

Lisa M. McGirr, Dunwalke Associate Professor of American History

M. Michelle Morris, Lecturer on History

Roy Mottahedeh, Gurney Professor of History

Afsaneh Najmabadi, Professor of History and of Studies of Women, Gender, and Sexuality *(on leave spring term)*





Susan E. O'Donovan, Associate Professor of African and African American Studies and of History  
E. Roger Owen, A. J. Meyer Professor of Middle East History  
Steven Ozment, McLean Professor of Ancient and Modern History (*on leave spring term*)  
Serge Plokhi, Visiting Professor of History (*University of Alberta*) (*fall term only*)  
Eric W. Robinson, Associate Professor of the Classics and of History (*on leave spring term*)  
Emma Rothschild, Visiting Professor of History (*King's College, Cambridge*)  
Richard Salvucci, Visiting Professor of History, Visiting Scholar in the David Rockefeller Center for Latin American Studies (*Trinity University*) (*spring term only*)  
Daniel L. Smail, Professor of History  
Rachel St. John, Assistant Professor of History  
Judith Surkis, Associate Professor of History and of History and Literature  
Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History (*Director of Graduate Studies*)  
Stephan Thernstrom, Winthrop Professor of History (*on leave 2005-06*)  
Yuma Totani, Lecturer on History (*University of California, Berkeley*) (*fall term only*)  
Laurier Turgeon, Visiting William Lyon MacKenzie King Professor of Canadian Studies (*University of Laval*) (*spring term only*)  
Laurel Thatcher Ulrich, Harvard College Professor and James Duncan Phillips Professor of Early American History  
John Womack, Jr., Robert Woods Bliss Professor of Latin American History and Economics  
Bradley S. Zakarin, Lecturer on History

***Other Faculty Offering Instruction in the Department of History***

Bernard Bailyn, Adams University Professor, Emeritus and James Duncan Phillips Professor of Early American History, Emeritus  
Thomas N. Bisson, Henry Charles Lea Professor of Medieval History, Emeritus  
Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations  
Harold Bolitho, Professor of Japanese History  
Shaye J.D. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy  
Kathleen M. Coleman, Harvard College Professor and Professor of Latin (*on leave 2005-06*)  
Albert M. Craig, Harvard-Yenching Professor of History, Emeritus  
Christine Desan, Professor of Law (*Law School*)  
Charles Donahue, Jr., Professor of Law (*Law School*) (*on leave 2005-06*)  
Carter J. Eckert, Yoon Se Young Professor of Korean History  
Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History  
William L. Fash, Bowditch Professor of Central American and Mexican Archaeology and Ethnology  
Franco Fido, Carl A. Pescosolido Professor of Romance Languages and Literatures (*fall term*) and Carl A. Pescosolido Professor of Romance Languages and Literatures, Emeritus (*spring term*) (*on leave fall term*)  
Donald Fleming, Jonathan Trumbull Professor of American History, Emeritus  
Ivan Gaskell, Senior Lecturer on History  
David D. Hall, Bartlett Professor of New England Church History (*Divinity School*)  
Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*on leave fall term*)



Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor (*on leave spring term*)  
Morton J. Horwitz, Charles Warren Professor of American Legal History (*Law School*)  
Gershon David Hundert, Gerard Weinstock Visiting Professor of Jewish History (*McGill University*) (*fall term only*)  
Akira Iriye, Charles Warren Research Professor of American History  
Geoffrey Jones, Professor of Business Administration (*Business School*)  
Alexander Keyssar, Matthew W. Stirling, Jr. Professor of History and Social Policy (*Kennedy School*)  
Elisabeth L. Laskin, Lecturer on History  
Nino Luraghi, Professor of the Classics  
Harvey C. Mansfield, William R. Kenan, Jr., Professor of Government  
Thomas K. McCraw, Isidor Straus Professor of Business History (*Business School*)  
John E. Murdoch, Professor of the History of Science  
Eric M. Nelson, Assistant Professor of Government  
Robert A. Orsi, Charles Warren Professor of History of Religion in America (*Divinity School*)  
Orlando Patterson, John Cowles Professor of Sociology (*on leave spring term*)  
Richard Pipes, Frank B. Baird, Jr., Professor of History, Emeritus  
Michael J. Puett, Professor of Chinese History  
Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization (*on leave spring term*)  
Roman Szporluk, Mykhailo S. Hrushevs'kyi Professor of Ukrainian History, Emeritus  
Wei-Ming Tu, Harvard-Yenching Professor of Chinese History and Philosophy and of Confucian Studies

Courses numbered 10–999 are Primarily for Undergraduates; courses numbered 1000–1999 are for Undergraduates and Graduates. These are distributed as follows:

1050–1099 Ancient History

1101–1299 Medieval and Renaissance History

1300–1599 Early and Modern Europe

1600–1699 United States

1700–1799 Latin America

1800–1930 Asia, Africa and Australasia

1931–3910 Historiography, Methodology, Global, and Comparative

Courses numbered 2000 and over are Primarily for Graduates. They are distributed as above, but stepped up by 1000. Courses designated as “Primarily for Graduates” may, with the permission of the instructor, be taken by senior History concentrators who are candidates for honors.

***Directed Study for Undergraduates***



The Department makes available, so far as its resources permit, opportunity for individual instruction in fields of special interest in which a regular course is not offered.

**\*History 91r. Supervised Reading and Research**

Catalog Number: 1458

*Sven Beckert and members of the department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Limited to juniors and seniors. Students wishing to enroll must petition the Head Tutor for approval, stating the proposed project, and must have the consent of the proposed instructor.

Ordinarily, students are required to have taken some course work as background for their project.

***Tutorials in History***

**\*History 97. Sophomore Tutorial**

Catalog Number: 4469

*Cemal Kafadar, Caroline M. Elkins, Mary D. Lewis, and Susan E. O'Donovan*

*Half course (fall term). Hours to be arranged.*

Introduction to the ways in which historians recreate the past. Students will read prototypes of historical genres and write their own histories in alternating sessions. Discussion sections and small tutorials.

*Note:* Required of, and limited to, all History concentrators in the fall term of their sophomore year.

**\*History 98. Honors Research Seminar**

Catalog Number: 3556

*Ann M. Blair, Joyce E. Chaplin, Terry D. Martin, and E. Roger Owen (fall term) and Bradley S. Zakarin (spring term)*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Methods of historical research and writing.

*Note:* Required of, and ordinarily limited to, honors juniors concentrating in History. Must be taken in the fall unless approved by the Head Tutor for the spring term.

*Prerequisite:* Admission to the honors program in History.

**\*History 99. Tutorial — Senior Year**

Catalog Number: 5803

*Bradley S. Zakarin and members of the department*

*Full course. Hours to be arranged. First Meeting: F., Feb 3, 4–5:30 pm, Sever Hall 213.*

Research and writing the senior honors essay in History.

*Note:* Required of, and ordinarily limited to, honors seniors concentrating in History. Permission must be obtained in the Tutorial Office. Either half year may be taken as a half course with the consent of the Head Tutor.

*Prerequisite:* History 98 and recommendation of the 98 tutor.

***History 90. Historiography Seminars***

These half courses are required of all History concentrators, who ordinarily take one in the spring of their sophomore year. These courses are usually limited to 15 participants. Other



undergraduates may be admitted into History 90 at the discretion of the instructor. History 90 is closed to graduate students.

### **History 90a. Major Themes in Medieval History**

Catalog Number: 0708

*Daniel L. Smail*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

This course is designed to introduce students to major themes of medieval European history and historiography. Each class will address a particular kind of primary source; through secondary readings, we will explore how scholars have used those sources in writing works of history.

### **\*History 90b. Thought and Culture in the European Renaissance and Reformation**

Catalog Number: 1833

*Ann M. Blair*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

In what sense, if any, were the centuries between 1300 and 1600 a period of transition from medieval to modern times? Eight scholarly debates pertinent to answering this question are addressed: the crisis of the late Middle Ages; church and state; the Renaissance of the Italian humanists; prophecy, heresy, and dissent; popular culture, sex, marriage, and family life; witches and witch hunts; and the Reformation and Counter Reformation.

### **\*History 90c. Major Themes in Modern European History**

Catalog Number: 5303

*Judith Surkis*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Examines major trends in the historiography of modern Europe. The course will be organized around the themes of “publicity” and “privacy” Topics to include: revolution and political rights; reading publics and civil society; markets and advertising, domesticity and social welfare; citizenship and consumption.

### **\*History 90d. Intellectual History**

Catalog Number: 4955

*David R. Armitage*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

An introduction to the methods of intellectual history, drawing primarily on sources from early modern and modern Europe. Designed for sophomores concentrating in History, though students with similar preparation and needs may be admitted with instructor’s permission.

### **\*History 90e. Major Themes in American Historical Writing**

Catalog Number: 4577

*Jill M. Lepore and Lisa M. McGirr*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 15, 16*

An examination of critical themes in American historical writing from the late 17th century to the present. Students will read selections from classics in American historiography and will examine debates among historians on some of the most important issues in US history. Among



the themes explored will be the origins of the American Revolution, the frontier, slavery, immigration, and the Cold War.

**\*History 90f. International Relations**

Catalog Number: 4422

*Erez Manela*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Major themes in modern international history.

**\*History 90g. Major Themes in Latin American History**

Catalog Number: 0119 Enrollment: Limited to 10.

*John H. Coatsworth*

*Half course (spring term). Tu., 2–4; Tu., 4–6. EXAM GROUP: 16, 17*

This course will examine major issues in the historiography of Latin America from the colonial era to twentieth century including the place of Iberian colonialism in global history, the origins of economic backwardness and inequality, the transition to independence and its effects, the nature and significance of social movements, the impact of modernization, and the problem of political order.

**\*History 90i. Major Themes in Ancient History**

Catalog Number: 4922 Enrollment: Limited to 18.

*Emma Dench (Birkbeck College, University of London)*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

An overview of some of the major issues in Greco-Roman history, with special attention given to the methodologies of the ancient historian.

**History 90j. Major Themes in Modern East Asian History**

Catalog Number: 4385

*Daniel V. Botsman*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

An introduction to some of the key issues and themes that have been taken up in English language scholarship on modern East Asia.

***Introductory Courses***

***Primarily for Undergraduates***

**History 10a. Western Societies, Politics, and Cultures: From Antiquity to 1650**

Catalog Number: 0213

*James Hankins, Alan Cooper (Colgate University), and Eric W. Robinson*

*Half course (fall term). M., W., (F.), at 12; . EXAM GROUP: 5*

A survey of Mediterranean and West European societies from Greco-Roman antiquity to the Scientific Revolution.

*Note:* Required of all history concentrators. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.



**History 10b. Western Economies, Societies, and Politics: From 1648 to the Present**

Catalog Number: 0262

*Niall Ferguson*

*Half course (spring term). Tu., Th., at 11;. EXAM GROUP: 13*

Second half of a survey of European history, from the aftermath of the Thirty Years War to the aftermath of the Cold War. Also treats some parts of Asian, American and African history as other continents were affected by European expansion. Topics include agricultural, commercial and industrial development; demographic change and social stratification; mass migration, trade and globalization; religion and political ideology; monarchies, republics and empires; revolutions, wars and international orders.

*Note:* Required of all history concentrators.

**History 10c. A Global History of Modern Times**

Catalog Number: 1925

*Charles S. Maier*

*Half course (spring term). M., W., (F.), at 11;. EXAM GROUP: 4*

A history of world societies from the end of the 18th century until the present. Covers such transnational forces as demographic change, religious revivals, and technological and economic development; comparative political transformations, such as the impact of revolutionary ideologies on rural and urban life; and the interactions between different global regions, whether as a consequence of imperialism and war, economic trade and investment, or cultural diffusion.

**[History 20a. Western Intellectual History: Greco-Roman Antiquity]**

Catalog Number: 6308

*James Hankins*

*Half course (fall term). Hours to be arranged.*

A survey of major themes in the intellectual history of the Greek and Roman World, with special attention to metaphysics, psychology, epistemology, ethics, politics, and the philosophic life.

Readings in the Presocratics, Plato, Aristotle, Lucretius, Epictetus, Cicero, Seneca, Marcus Aurelius, Plotinus, Augustine, and Boethius.

*Note:* Expected to be given in 2007–08.

**[History 20b. Western Intellectual History: The Middle Ages to the Seventeenth Century]**

Catalog Number: 7573

*James Hankins*

*Half course (spring term). Hours to be arranged.*

A survey of major themes in medieval and early modern intellectual history. Readings in Anselm, Abelard, Thomas Aquinas, William of Ockham, Petrarch, Machiavelli, Thomas More, Martin Luther, Montaigne, Francis Bacon, Descartes, Hobbes.

*Note:* Expected to be given in 2007–08.

***Ancient History***

***For Undergraduates and Graduates***



See also Classical Archaeology 180 and 181.

**[History 1085. The Roman Empire, Augustus to Constantine]**

Catalog Number: 3109

*Christopher P. Jones*

*Half course (fall term). Hours to be arranged.*

The Roman Empire from its foundation by Augustus to the death of Constantine; its social, political, and military development; its institutions (emperor, senate, army); Roman imperial art and coinage; Greek and Roman literature of the imperial period; religious developments, including Judaism and Christianity under Roman rule; women and minorities. Sections will focus on issues of particular interest and on the study of primary documents. No knowledge of ancient languages required.

*Note:* Expected to be given in 2007–08.

**History 1091 (formerly Jewish Studies 125). Jewish History in the Second and Post-Temple Period**

Catalog Number: 6035

*Shaye J.D. Cohen*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A survey of Jewish history in antiquity from the Persian period (5th century BCE) to the Byzantine period (5th century CE). Topics include: political accommodation and resistance, Hellenism, the Hasmoneans and Herod the Great, the effects of Roman rule, Pharisees, Qumran, Christians, unity and diversity, the destruction of the temple and its aftermath, the emergence of rabbinic Judaism, homeland and diaspora.

*Note:* Offered jointly with the Divinity School as 1462.

***Cross-listed Courses***

**Classics 140. The Fall of the Roman Republic**

**Classics 158. Hellenistic Greece from Alexander to Augustus**

**[Historical Study B-04. Ancient Greek Democracy]**

**[Historical Study B-09. The Christian Revolution]**

***Primarily for Graduates***

**History 2051. Ethnic Identities in Classical Antiquity: Seminar**

Catalog Number: 0006

*Emma Dench (Birkbeck College, University of London)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Explores questions of what it meant to be Greek, Athenian, Roman, Jewish, or Etruscan in classical antiquity, in what contexts were identities articulated, and how were relationships between selves and others imagined and played out.

***Medieval and Renaissance History***

***For Undergraduates and Graduates***





See also Committee on Medieval Studies. Students are also directed to Divinity School courses.

**History 1101. Medieval Europe**

Catalog Number: 4278

*Alan R. Cooper (Colgate University)*

*Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3*

This course will examine the emergence of medieval civilization from the ruins of the ancient world, and the evolution of that civilization into modern Europe. Themes include: the fall of Rome, the spread of Christianity, the rise and fall of Byzantium, the challenge of Islam, the Vikings, the Crusades, commerce and agriculture, the Feudal Revolution, the Twelfth Century Renaissance, spirituality and persecution, the origins of law and government, the Black Death, and the Italian Renaissance.

*Note:* Given in alternate years. Students prepared to pursue special topics can be accommodated.

**History 1140. Introduction to Medieval Archaeology**

Catalog Number: 2361

*Joachim Henning (Goethe University)*

*Half course (fall term). Tu., Th., at 11; . EXAM GROUP: 13*

This course introduces students to medieval archaeology by posing one basic archaeological question in each meeting, and offering more than one answer. Illustrating how archaeologists uncover and analyze material evidence for reconstructing Europe's medieval past, it stresses the character and methods of archaeology as an essential historical discipline which discloses a new picture of medieval civilization by building a bridge between the natural sciences and the humanities.

**History 1142. Carolingian Civilization**

Catalog Number: 2573

*Paul Dutton (Simon Fraser University)*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

An exploration of the civilization that Charlemagne created in continental Europe between 750 and 900, focusing on political, cultural, and intellectual developments. How did this world of great monasteries, resurgent economy, and great original thinkers come about? How was it held together and what forces of resistance limited and undermined it? Was the Carolingian empire destined to fail, and did it represent the end of late antiquity or the beginning of the Middle Ages proper?

**History 1143. Microhistorical Approaches to the Middle Ages: Conference Course**

Catalog Number: 2574 Enrollment: Limited to 15.

*Paul Dutton (Simon Fraser University)*

*Half course (spring term). M., 2-4. EXAM GROUP: 7, 8*

An approach to the Middle Ages through a close examination of little things: particular texts, artifacts, images, incidents, and ideas. The method applied will be to start with some small source, to explore its apparent information, and then to widen our search in expanding layers of engagement as we explore what makes a piece of the past mean, both for us and for them.

**History 1150. The Jews in Muslim and Christian Spain**

Catalog Number: 5331



*Bernard Septimus*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

A study of the political, social, and cultural history of the Hispano-Jewish community from the Muslim conquest of Spain in 711 to the expulsion of the Jews from Christian Spain in 1492. Emphasis on literary and intellectual developments and on the complex relationship of the Jews to Iberian Christendom and Islam. Combines material from former courses History 1151 and 1152.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

**[History 1158. The Mediterranean in the Late Middle Ages, 1204-1500: Conference Course]**

Catalog Number: 2711

*Angeliki E. Laiou*

*Half course (spring term). Hours to be arranged.*

Examines the economic, social, and political developments in the Mediterranean basin during a critical period. Investigates patterns of economic dominance, trade patterns, forms of colonization, the function of the merchant groups in Venetian, Genoese, Byzantine, and Muslim societies. The development of shipping, maps, and financial and commercial techniques is discussed; travel, war, and politics are also examined in their relation to economic and social developments.

*Note:* Expected to be given in 2007–08.

**[History 1166. Family, Sex, and Marriage in Western Europe, East and West in the Medieval and Early Modern Period: Conference Course]**

Catalog Number: 2725

*Steven Ozment and Angeliki E. Laiou*

*Half course (spring term). Hours to be arranged.*

Reading and discussion of major sources and studies illustrative of the development of family life in the Byzantine Empire and in medieval and early modern Western Europe, in a comparative perspective. Attention will be given to important historiographical controversies and to a variety of national traditions.

*Note:* Expected to be given in 2006–07.

**[History 1212. The Imperial System: Byzantine Society and Civilization, 8thc.-1204: Conference Course]**

Catalog Number: 6078

*Angeliki E. Laiou*

*Half course (fall term). Hours to be arranged.*

An examination of Byzantine society from the time of the Iconoclastic controversy until the conquest of Constantinople by the participants of the Fourth Crusade. Topics will include state ideology and diplomacy, social structure, the formation of the aristocracy, the economy, urban and rural life, the role of women, relations with Western Europe and the Muslim world, art and culture. Considerable emphasis will be given to primary sources (in translation).

*Note:* Expected to be given in 2006–07.



**History 1216. Renaissance Venice: Conference Course**

Catalog Number: 1707

*Jenny Jordan (University of California, Los Angeles)*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

This course will track Venice's literal and mythological "rise from the waters" as a locus of literature, art, and culture, exploring the connections between politics, questions of gender, culture and geography.

***Cross-listed Courses***

**Historical Study A-40. The Middle East and Europe since the Crusades: Relations and Perceptions**

**Historical Study B-19. The Renaissance in Florence**

**[Medieval Studies 101. The Auxiliary Disciplines of Medieval History: Proseminar]**

**[Medieval Studies 117. Constitutional and Legal History of Medieval England]**

**[Medieval Studies 119. Constitutional and Legal History of Medieval Continental Europe]**

**Medieval Studies 211. The Archaeology and History of European Towns, 500–1000**

***Primarily for Graduates***

**\*History 2101. Medieval Societies and Cultures: Proseminar**

Catalog Number: 6693

*Daniel L. Smail*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Introduction to the study of medieval history, and to the literature basic to the examination field. Stress on the values (and limitations) of older institutionalist scholarship and on the challenges of *annaliste* and theoretically informed approaches.

*Note:* May not ordinarily be credited as one of the research seminars required in the first-year program.

*Prerequisite:* Reading knowledge of French and/or German.

**[\*History 2120. Problems in Byzantine History: Proseminar]**

Catalog Number: 9720

*Angeliki E. Laiou*

*Half course (spring term). Hours to be arranged.*

Graduate colloquium for students preparing for general examinations in Byzantine history. Focus on major issues and historiographical debates, 4th-12th century.

*Note:* Expected to be given in 2006–07. May not be credited as a research seminar.

*Prerequisite:* Reading knowledge of French or German.

**[History 2122. Early Medieval History: Seminar: Communications in the Early Medieval Mediterranean]**

Catalog Number: 5011

*Michael McCormick*

*Half course (spring term). Hours to be arranged.*

Communications, travel, and commerce in the early medieval Mediterranean. Meetings will



include close philological and historical analysis of relevant Latin sources, and research papers by participants.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Latin, with either German or French, is required.

**[History 2126. Medieval Law]**

Catalog Number: 3140

*Charles Donahue, Jr. (Law School)*

*Half course (spring term). Hours to be arranged.*

Readings focused alternately on English legal tradition and on the Roman-canonical tradition. Short papers analyzing texts will be required but not a research paper. Topics for 2006-07: the Romano-canonical legal tradition.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Some Latin required.

**[History 2271r. Topics in Byzantine History: Seminar]**

Catalog Number: 3868

*Angeliki E. Laiou*

*Half course (fall term). Hours to be arranged.*

Topic to be announced.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Reading knowledge of Greek, Ancient or Medieval, French and/or German.

***Early and Modern Europe***

***For Undergraduates and Graduates***

**[History 1318. History of the Book and of Reading](#)**

Catalog Number: 7410

*Ann M. Blair*

*Half course (spring term). M., W., (F.), at 11;. EXAM GROUP: 4*

An introduction to the cultural history of the book and its functions as both material object and text. Major themes include the techniques of book production, authorship, popular and learned readership, libraries and censorship, with a focus on printing and developments in early modern Europe, 16th-18th centuries.

**[\*History 1336. The Reign of Charles I: Conference Course]**

Catalog Number: 1531 Enrollment: Limited to 12.

*Mark A. Kishlansky*

*Half course (fall term). Hours to be arranged.*

An examination of the Stuart monarchy during its most tempestuous period. Topics include court culture, religion, and the Constitution. Readings focus on the rich primary literature of the age. Original research required.

*Note:* Expected to be given in 2006–07.



**[History 1418. Political Justice Since 1789: Conference Course]**

Catalog Number: 3904

*Charles S. Maier*

*Half course (fall term). Hours to be arranged.*

Examines selected trials and debates, and some comparative and theoretical material, to open up key problems in recent history as well as general legal and moral issues.

*Note:* Expected to be given in 2006–07.

**History 1419. History of the Jews in Poland**

Catalog Number: 3775

*Gershon David Hundert (McGill University)*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Survey of the Jewish experience in Polish lands from the beginnings of settlement to the present with an emphasis on the early modern period (1500–1800).

*Note:* Offered jointly with the Divinity School as 3648.

**[History 1443. Peter Paul Rubens (1577-1640), Scholar, Diplomat, Artist: Conference Course]**

Catalog Number: 4061 Enrollment: Limited to 12.

*Ivan Gaskell*

*Half course (spring term). Hours to be arranged.*

An investigation of how 21st-century responses to artworks by Rubens may relate to the development of historical understanding. Examines the tensions between the specificity of Rubens's artworks and other actions, and broader patterns and conventions of behavior in art, politics, and the western European social fabric more generally in the first half of the 17th century. Will examine artworks associated with Rubens's paintings, drawings, prints, illustrated books in Harvard and Boston collections.

*Note:* Expected to be given in 2006–07.

**[History 1444. John Locke: Conference Course]**

Catalog Number: 6655 Enrollment: Limited to 15.

*David R. Armitage*

*Half course (spring term). Hours to be arranged.*

A comprehensive survey of the work of the philosopher and political theorist John Locke in historical context. Treats major works including the "Essay Concerning Human Understanding," the "Two Treatises of Government," "A Letter Concerning Toleration," "Some Thoughts Concerning Education," and "The Reasonableness of Christianity."

*Note:* Expected to be given in 2007–08.

**History 1445. Culture and Modernity in the Netherlands 1914-1940**

Catalog Number: 4300

*Madelon de Keizer (Netherlands Institute for War Documentation)*

*Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3*

The significance of WWI for European modern culture is a topic of broad historical and cultural study. This course provides the historical depth and the comparative context in which to understand the experience of modernity in a country that stayed neutral during WWI.



Accordingly, we will survey recent historical research about modernity, culture and WWI and analyze the discourse on modernity in the work of a variety of prominent Dutch artists and intellectuals of the period.

**History 1446. Fin-de-Siècle Vienna: Conference Course**

Catalog Number: 1471 Enrollment: Limited to 15.

*Alison F. Frank*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Explores the history of the political, social, and cultural center of the largest continental European Empire in modern history, and one of the birthplaces of European modernism. From the 1880s through WWI and into the early years of the Republic of Austria, the course examines not only Vienna's intellectual vitality, but also the social and ideological divisions underlying the human catastrophes of World War and genocide in the twentieth century.

**History 1447. The Transformation of Britain, 1760-1870**

Catalog Number: 0877

*Caitlin Anderson*

*Half course (fall term). Tu., Th., at 12; . EXAM GROUP: 14*

Surveys a transformative century in the history of the British Isles with reference to events in Britain's overseas empire. Topics include war and national identity, the Industrial Revolution and the growth of international trade, slavery and its abolition, popular politics and the extension of the franchise, religion and overseas missions, and changing attitudes to gender and social class.

**History 1448. Law and Identity in the British Empire, 18th–19th Century.: Conference Course**

Catalog Number: 0884 Enrollment: Limited to 15.

*Caitlin Anderson*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Explores relationships between law, legal processes, and identity in Britain and on British imperial frontiers in the 18th and 19th centuries. Topics include gender, marriage and the family; race and slavery; encounters with non-European legal systems; and the mythologies of the common law. Will also consider various approaches to law and identity. The emphasis will be on the interaction of law and society rather than doctrine, procedure, or constitutional development.

**[History 1450. France 1500-1715]**

Catalog Number: 7575

*Ann M. Blair*

*Half course (spring term). Hours to be arranged.*

A general survey of the history and historiography of early modern France ca. 1500-1715, with a special emphasis on topics in cultural history, including: humanism and printing; Protestantism; political thought; royal and court rituals; and the beginnings of the Enlightenment. Assigned readings from Rabelais, Montaigne, Pascal, Racine, and Voltaire among the primary sources; from Fernand Braudel, Natalie Davis, Robert Darnton among the secondary sources.

*Note:* Expected to be given in 2006–07. All assignments in English. An optional extra French-language reading section will be arranged in case of interest.



**History 1451. The History of France from Louis XIV to Charles deGaulle**

Catalog Number: 6683

*Patrice Higonnet*

*Half course (spring term). Tu., Th., at 11;. EXAM GROUP: 13*

The history of France from the French Revolution to Charles deGaulle.

**History 1454. French Social Thought from Rousseau to Foucault and Beyond**

Catalog Number: 4665

*Judith Surkis*

*Half course (spring term). Tu., Th., at 12 and a weekly section to be arranged. EXAM GROUP: 14*

Examines traditions and trends in French social thought as dialogues between thinkers and between thinkers and their historical contexts. Examines the “schools” of liberalism, conservatism, republicanism, socialism, existentialism, structuralism, Marxism, feminism, and anti-colonialism. Readings from Rousseau, de Maistre, Saint-Simon and the Saint-Simoniennes, Michelet, Tocqueville, Comte, Durkheim, Mauss, Kojève, Bataille, Canguilhem, Levi-Strauss, Sartre, de Beauvoir, Fanon, Lyotard, Althusser, Foucault, and Bourdieu.

**History 1456. Central Europe, 1789-1918**

Catalog Number: 3736

*Alison F. Frank*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Examines the political, social, cultural, and environmental history of the Habsburg Empire and its neighbors. Considers the combination of local and international forces that shaped central Europe’s social and physical environments from the French Revolution to the First World War. Special attention is paid to the tension between regional, national, and supranational communities. Takes up the question of the historical cohesion and analytical utility of the very idea of ‘central’ Europe.

**History 1459. Gender and Sexuality in Modern Europe: Conference Course**

Catalog Number: 1562

*Judith Surkis*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the social organization and cultural construction of gender and sexuality in modern Europe from 1789. Major focus on France, Britain, and German-speaking countries, in both metropolitan and imperial contexts. Particular attention will be paid to how normative concepts of femininity and masculinity play a role in the legitimization of social and political order as well as in attempts to effect and respond to social change.

**History 1463. Paris From the French Revolution Through the 19th Century: Conference Course**

Catalog Number: 6355 Enrollment: Limited to 15.

*Patrice Higonnet and Henri Zerner*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Examines the art, literature, and history of the “capital of the 19th century.” Subjects will include





Balzac, Flaubert, and Baudelaire; Delacroix, Manet, and Degas; the Revolutions of 1789, 1848, and 1871.

**[History 1466. Vichy France: Conference Course]**

Catalog Number: 8154

*Patrice Higonnet and Stanley Hoffmann*

*Half course (spring term). Hours to be arranged.*

We cover the background of the Vichy years and the legacy of 1789; military affairs; Vichy's social policy; Vichy, the Germans, and the Jews; Vichy and Free France; and the legacy of the Vichy years.

*Note:* Expected to be given in 2006–07.

**[History 1470. European Intellectual History]**

Catalog Number: 7131

*Peter E. Gordon*

*Half course (spring term). Hours to be arranged.*

An introduction to major landmarks in Continental philosophy and social theory in the modern period, beginning with Nietzsche. Focuses on the various challenges to traditional enlightenment notions of freedom and subjectivity in psychoanalysis, Critical Theory, existentialism, French structuralism, and post-structuralism.

*Note:* Expected to be given in 2006–07.

**[History 1471. The Thought of Martin Heidegger]**

Catalog Number: 5691 Enrollment: Limited to 20.

*Peter E. Gordon*

*Half course (spring term). Hours to be arranged.*

A lecture/seminar course, addressing some key themes in 20th century phenomenology, focusing chiefly on Heidegger. Consists mostly of a sustained, critical reading of Heidegger's monumental 1927 text, *Being and Time*; but we also discuss some of his later contributions to theories of technology, language, and art.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* History 1470b; Social Studies 10; or a course in introductory philosophy.

**[History 1472. Epistemic Regimes: Conference Course]**

Catalog Number: 6425 Enrollment: Limited to 20.

*Peter E. Gordon*

*Half course (fall term). Hours to be arranged.*

A seminar in the philosophy of explanation in history and the social sciences that looks at the idea that what counts as knowledge and truth may depend upon styles of reasoning, or practices of world-making, and that the conditions for something being true may be subject to broadscale, structural transformation over time.

*Note:* Expected to be given in 2006–07.

**[History 1474. Republics and Republicanism: Conference course](#)**

Catalog Number: 2494

*James Hankins and Eric M. Nelson*



*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Surveys the history of republican political theory from antiquity to the modern era. Themes to be discussed include: the relationship between republicanism and liberalism; the roots of republicanism in Greek and Roman political thought; Italian civic humanism; and the ideological origins of the English and American Revolutions. Readings will be drawn from Aristotle, Cicero, Machiavelli, More, Montesquieu, the Federalist, Tocqueville, and others.

### **History 1481. French Citizenship Since 1789**

Catalog Number: 5855

*Mary D. Lewis*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Examines the challenges posed to French society by the principles of citizenship that emerged from the French Revolution. Considers how abstract, “universal” ideas have been difficult to implement evenly across French society, and explores what historical circumstances have prevented particular groups from enjoying the rights associated with these principles since 1789. Focuses on gender, race and colonial status, religion, nationalism, and class.

*Prerequisite:* None; History 10b recommended.

### **[History 1482. Capitalism and Culture in Modern Europe]**

Catalog Number: 4137

*Mary D. Lewis*

*Half course (fall term). Hours to be arranged.*

Looks at how European communities have confronted economic and social change since the development of market capitalism. Explores the place of work, the working class, labor politics, social welfare and social conflict in everyday life from the Industrial Revolution to the Post-Industrial Age.

*Note:* Expected to be given in 2006–07.

### **[History 1483. French Colonial Encounters: 1870’s to Present: Conference Course]**

Catalog Number: 0461

*Mary D. Lewis*

*Half course (fall term). Hours to be arranged.*

Explores and compares three colonies in the French Empire: French West Africa, Algeria, and Indochina, considering how colonial rule was extended, how individuals responded, and what reverberations there were between colony and metropole.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* An introduction to French history recommended.

### **[History 1484. Europe Since World War II]**

Catalog Number: 4588

*Mary D. Lewis*

*Half course (fall term). Hours to be arranged.*

Considers the political, economic, social and cultural development of Europe since the end of the Second World War. Examines post-war reconstruction; decolonization and the Cold War; the development of social democracy, new social movements, and the welfare state; the birth and expansion of the European Union; the emergence and importance of “immigrant politics” and



new extreme-right movements; the events of 1989 and their significance.

*Note:* Expected to be given in 2006–07.

**\*History 1491. Religion and Popular Culture in 19th-Century Europe: Conference Course**

Catalog Number: 6681 Enrollment: Limited to 15.

*David Blackburn*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Explores the relationship between social and political change and popular religious practice from the French Revolution to World War I. Considers methodological problems in the study of religion and popular culture; religious revivals and popular politics; pilgrimages and prophetic movements; the relationships between class, gender, and religious culture; the feminization of religion, and the origins and resistance to the secularization of state and society. Readings include primary documents and secondary texts.

*Note:* Offered jointly with the Divinity School as 2265.

**History 1518. Eastern Reformations: Religion and Society in Eastern Europe: Conference Course**

Catalog Number: 1954

*Serge Plokhi (University of Alberta)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Will deal with the spread of Reformation ideas and Protestantism in the Polish, Lithuanian, Ukrainian, Belarusian, and Russian lands from the early sixteenth to the early twentieth century. It will also examine in detail the confessionalization of political, social, and religious life in the region as a result of the Counter-Reformation and Orthodox reform. Special attention will be paid to examining the interconnection between religious, social, and national identities in the countries of the region.

**History 1525. Cultures and Identities: East-Central Europe, 1795-1921**

Catalog Number: 0572

*Serge Plokhi (University of Alberta)*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

The course will examine the formation of modern cultural and national identities in the multi-ethnic borderlands of the former Polish-Lithuanian Commonwealth, Habsburg Monarchy, and the Russian Empire from the late 18th century to the end of the First World War, the Russian Revolution, and the disintegration of Austria-Hungary.

**History 1526. Imperial Russian History**

Catalog Number: 9133

*Elena I. Campbell*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Provides an overview of Russian Imperial History from the late 17th century to the Revolutions of 1917. We will explore the Russian Imperial past through examining the nature and evolution of autocratic power, politics of reform and revolution, imperial ideologies and practices, social structure and everyday experiences, as well as intellectual and cultural life.

*Prerequisite:* No Russian language is required.



**History 1527. The Russian Empire and its Nationalities: Conference Course**

Catalog Number: 5167

*Elena I. Campbell*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Multiethnicity was a crucial factor in Imperial Russian history. How was the multiethnic empire held together, and what was the role of the “nationalities question” in its disintegration? How was cultural diversity articulated and manifested in politics? What were the Imperial approaches to different nationalities? We shall explore these questions through examining the issues of identity, nationality policies, and ideologies. Particular attention will be given to the development of the nationalistic discourse in Imperial Russia.

*Prerequisite:* No Russian language is required.

**History 1528. History and Memory: Conference Course**

Catalog Number: 4097

*Elena I. Campbell*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Will focus on the problem of collective memory from the perspective of its social, political, and cultural functions and its institutional and cultural expressions. We will explore the process by which societies construct and make sense of their past through examination of different forms of commemoration (celebrations, monuments, museums, archives). Special attention will be given to Russia: October Revolution as a memory project, the cult of WWII, the remembrance of Stalinist repressions.

*Prerequisite:* No Russian language is required.

**History 1531. History of the Soviet Union, 1917-1991**

Catalog Number: 4501

*Terry D. Martin*

*Half course (spring term). Tu., Th., at 10;. EXAM GROUP: 12*

Examines the history of the Soviet Union from the Russian Revolution to Gorbachev’s failed reforms. Focus on the period 1928-53 when industrialization, nationalization and political terror created a distinct Soviet society and culture. Readings include novels, short stories, memoirs, Soviet propaganda, high policy deliberations, letters, journalism, songs, jokes, etc.

***Cross-listed Courses***

**[French 263. French Society in Film and History, 1895-1950]**

**Slavic 169. 20th-Century Ukraine: Literature, Arts, and Society**

***Primarily for Graduates***

**[History 2310. Problems in Late Medieval and Early Modern Europe 1250-1750: Seminar]**

Catalog Number: 9057

*Steven Ozment*

*Half course (spring term). Hours to be arranged.*

Directed reading and writing in European politics, society, and culture. For field exam candidates, senior thesis writers, and graduate students writing dissertations.



*Note:* Expected to be given in 2007–08. Open to advanced undergraduates with permission of instructor.

**[History 2312. The German Family, 1250–1750: Seminar]**

Catalog Number: 8806

*Steven Ozment*

*Half course (spring term). Hours to be arranged.*

An introduction to research in German family history, including German script, during the late medieval and early modern periods. Both group and individual instruction.

*Note:* Expected to be given in 2006–07. Highly recommended for upper level undergraduates and graduate students seeking to improve their reading knowledge of German and/or prepare for research in German archives.

*Prerequisite:* Requires a basic reading knowledge of modern German.

**[History 2332. Early Modern England: Seminar]**

Catalog Number: 7105 Enrollment: Limited to 10.

*Mark A. Kishlansky*

*Half course (spring term). Hours to be arranged.*

Students will conduct primary research on topics of significance in the history of England, ca. 1563–1714.

*Note:* Expected to be given in 2006–07.

**History 2342r. The French Revolution: Seminar**

Catalog Number: 1914

*Patrice Higonnet*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

The history of Paris during the French Revolution.

**[History 2410. Ideas in Europe in the 18th Century: Seminar]**

Catalog Number: 1077

*Emma Rothschild (King's College, Cambridge)*

*Half course (fall term). Hours to be arranged.*

A graduate seminar which examines a number of 18th century writings (by Hume, Smith, Herder, Wollstonecraft, and Condorcet) and ideas (enlightenment, religion, empire), and explores different ways of writing about the history of ideas.

*Note:* Expected to be given in 2006–07.

**History 2430. The British Empire Before 1800: Proseminar**

Catalog Number: 4452

*David R. Armitage*

*Half course (fall term). Tu., 6–8 p.m.; Tu., 2–4. EXAM GROUP: 18*

History of the British Empire before 1800, with special emphasis on the Atlantic Ocean.

**\*History 2473. Latin Texts of the Italian Renaissance: Proseminar**

Catalog Number: 0140

*James Hankins*



*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Topics include civic humanism and republicanism; Renaissance historiography and its modern context; the revival of ancient philosophical systems and the challenge to Aristotelianism and scholasticism; humanist educational theory and practice. Readings in contemporary sources.

*Note:* Enrollment by permission of the instructor. May not ordinarily be credited as one of the research seminars required in the first-year program.

*Prerequisite:* A reading knowledge of Latin, French, Italian, and German.

### **History 2475. Problems and Sources in Modern German History: Seminar**

Catalog Number: 8355 Enrollment: Limited to 12.

*David Blackbourn*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A thematic course dealing with major topics in German history from the middle of the 19th century to the Third Reich. A recurrent question is the relationship of “modern” and “anti-modern” in this period.

*Note:* Reading knowledge of German not required.

### **History 2513. Imperial Russian History: Sources Analysis: Seminar**

Catalog Number: 3903

*Elena I. Campbell*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Introduces different types of primary sources (memoirs, periodicals, laws, investigation files, maps, statistics, etc.), strategies of archival and library research, and discusses the peculiarities of sources analysis and their use for historical interpretation.

*Prerequisite:* Knowledge of reading Russian is required.

### **History 2531. The Soviet Union: Seminar**

Catalog Number: 7969

*Terry D. Martin*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Introduction to archival and primary sources, as well as major historiographical debates. Primary focus on major research paper.

*Prerequisite:* Reading knowledge of Russian.

### ***Cross-listed Courses***

**Historical Study A-27. Reason and Faith in the West**

**Historical Study A-76. Germany 1871–1990: From Unification to Reunification**

**Historical Study B-35. The French Revolution: Causes, Processes, and Consequences**

**[Historical Study B-54. World War and Society in the 20th Century: World War II]**

### ***History of the United States***

***For Undergraduates and Graduates***



**\*History 1601. Rediscovering the Puritans: 17th-Century Life in the Essex County, Massachusetts Courts: Conference Course**

Catalog Number: 7622 Enrollment: Limited to 15.

*M. Michelle Morris*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

This course introduces students to the joys of working with 17th-century Massachusetts court records. Using the Essex County Quarterly Court records (1636–1686) as the central primary source, students will meet absconding servants, wayward children, drunken husbands, philandering wives, and a whole host of other characters not usually associated with “Puritan” New England. At the end of the semester students will produce an original 15-20 page history based on their research.

**[History 1608. Reading Early America: Words, Print, and Artifacts: Conference Course]**

Catalog Number: 7209

*Jill M. Lepore*

*Half course (spring term). Hours to be arranged.*

An inquiry into the literary, cultural, and political worlds of colonial, revolutionary, and antebellum Americans through close readings of printed primary documents, including almanacs, maps, poems, novels, broadsides, newspapers, and ephemera. Students explore and conduct research in the “history of the book,” an interdisciplinary field at the intersection of history and literature. Emphasis is on the role of print in shaping political culture in the emerging American nation.

*Note:* Expected to be given in 2006–07.

**History 1610. Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America: Conference Course**

Catalog Number: 2479 Enrollment: Limited to 12.

*Laurel Thatcher Ulrich and Ivan Gaskell*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Using case studies drawn from the Artemas Ward House and other Harvard collections, students will explore a range of methods used in interpreting art and artifacts from colonial North America and the early US. Emphasis on the interplay between particular objects and larger historical themes, such as colonialism, patriotism, or the beginnings of mechanization. Students will be introduced to a range of scholarly tools, including laboratory analysis of materials, quantitative studies of household inventories, and iconography.

**[History 1611. American Revolutions in the Atlantic World]**

Catalog Number: 9586

*Vincent Brown*

*Half course (spring term). Hours to be arranged.*

This course considers the American (1776-1789) and the Haitian (1791-1804) revolutions as a continuous sequence of radical challenges to established authority, which threw the imperial Atlantic world in chaos, killing and dislocating tens of thousands, depriving European powers of prized colonial possessions, disrupting established political orders and patterns of commerce, and finally, creating the first two independent post-colonial nation states in the Americas.

*Note:* Expected to be given in 2006–07.





**[History 1612. African Diaspora in the Americas]**

Catalog Number: 9564

*Vincent Brown*

*Half course (fall term). Hours to be arranged.*

How can we best understand the diverse cultural practices of black people in the Americas, from where did those practices derive, and how are they related to each other? We explore a history of attempts to answer those questions, and examine ways that interpretations of the “African diaspora” have been conceived by scholars to better appreciate the complex histories of African-American cultural practices.

*Note:* Expected to be given in 2006–07.

**History 1615. The Nine Lives of Benjamin Franklin: Conference Course**

Catalog Number: 6296 Enrollment: Limited to 15.

*Joyce E. Chaplin*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines some of the multiple lives that Franklin led during the eighteenth century. Students examine in depth one of these lives or identify and explore yet another, to better comprehend Franklin and the worlds in which he lived: colonial America, British empire, independent US, books, science, popular culture, politics, war, personal improvement, and many others.

**History 1616. Witnesses to Revolution: Two Eighteenth-Century Diaries: Conference Course**

Catalog Number: 2643 Enrollment: Limited to 15.

*Laurel Thatcher Ulrich*

*Half course (fall term). Hours to be arranged.*

This course explores central themes in the social history of the American revolution through the diaries of Landon Carter, a Virginia Planter, and Elizabeth Drinker, a Philadelphia Quaker. Students will learn research strategies in social history while exploring the relationship between military mobilization and slavery, the impact of sentimental literature on family life, and connections between economics and religion.

**History 1617. The French in North America**

Catalog Number: 1136

*Laurier Turgeon (University of Laval)*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

An exploration of the presence and cultural significance of Francophone peoples in North America from the sixteenth through the twentieth centuries. Will deal with the ways in which the French presence is expressed in migration movements, the landscape, exchange, labor, material objects, memory, and politics. Special attention will be given to the French Atlantic world during the colonial period. Will include discussion groups in English and French.

**History 1625. The American Civil War: Waging a War in History and Memory**

Catalog Number: 7989

*Susan E. O'Donovan*

*Half course (spring term). M., W., at 10 and a weekly section to be arranged. EXAM GROUP: 3*

As much public as professional property, the Civil War has had many owners, it has assumed



many shapes, and it has been put to many uses. Starting in the archives and ending in Hollywood, this course considers a range of those Civil Wars, their authors, and their meanings. Period accounts, fiction, film, and historians' interpretations will provide the basis for understanding the war's continued grip on the American imagination and on national political life.

**[History 1632. Gilded Age America: Economy, Society, and Politics: Conference Course]**

Catalog Number: 4733 Enrollment: Limited to 12.

*Sven Beckert*

*Half course (fall term). Hours to be arranged.*

Will analyze both the dynamics of economic, social, and political change during the Gilded Age and how Americans tried to come to terms with a world so different from the one they had inherited.

*Note:* Expected to be given in 2007–08.

**[\*History 1635. Race and Race Relations Since Plessy: Conference Course]**

Catalog Number: 4172 Enrollment: Limited to 15.

*Stephan Thernstrom*

*Half course (spring term). Hours to be arranged.*

An examination of the changing position of blacks in American society since disenfranchisement and the creation of the Jim Crow system at the turn of the century. The nature of segregation; the civil rights movement; the crisis of the sixties; the Moynihan and Kerner reports; economic and social trends since the 1960s.

*Note:* Expected to be given in 2006–07.

**[History 1638. US Social History, from 1920 to the Present]**

Catalog Number: 5967

*Stephan Thernstrom*

*Half course (spring term). Hours to be arranged.*

An analysis of major social changes from the 1920s to the present. Topics include population patterns, industrial growth, urban development, the class structure, ethnic and racial relations, gender roles, and education.

*Note:* Expected to be given in 2006–07.

**[History 1641. History of the US West](#)**

Catalog Number: 3887

*Rachel St. John*

*Half course (fall term). M., W., (F.), at 11 and a weekly section to be arranged. EXAM GROUP: 4*

This lecture course will introduce students to the history of the place that we now know as the US West from before European expansion to the present. Lectures and readings will examine how both particular national boundaries and distinctive regional patterns have defined the West. Drawing on histories, memoirs, journals, films, and images, students will explore a variety of perspectives on the political, economic, social, cultural, and environmental transformations of the American West.



### **History 1642. The Place of Regions in US History: Conference Course**

Catalog Number: 8377

*Rachel St. John*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

This course will explore how the concept of region and the meanings of regional differences have changed throughout US history. Class discussion will build from an analysis of historical and contemporary material, ranging from music and material objects to political reports and historical monographs. Major themes include: environment, geography, and climate; economy; culture; race; politics; intersections within regions; the role of migration in shaping and diluting regional differences; and sub-regional identities.

### **[\*History 1643. Civil War and Reconstruction: Conference Course]**

Catalog Number: 5156 Enrollment: Limited to 15.

*Drew Gilpin Faust*

*Half course (spring term). Hours to be arranged.*

This course will explore the American experience of Civil War and Reconstruction with attention to cultural, social, political, and military questions. Readings will include both primary and secondary texts. Students will be expected to participate actively in class discussions and to produce a substantial research paper.

*Note:* Expected to be given in 2006–07.

### **[\*History 1645. History of American Immigration: Conference Course]**

Catalog Number: 7280 Enrollment: Limited to 15.

*Stephan Thernstrom*

*Half course (fall term). Hours to be arranged.*

Analysis of the immigration waves that have shaped the American population from colonial times to the present. The causes of international migration; shifting American attitudes toward immigrants; US immigration policy; the economic and social adjustment of newcomers; the Melting Pot vs. cultural pluralism.

*Note:* Expected to be given in 2006–07.

### **History 1650a. Foreign Relations of the US I**

Catalog Number: 3435

*Ernest R. May and Erez Manela*

*Half course (fall term). Tu., Th., at 11; . EXAM GROUP: 13*

American foreign relations from the colonial period through World War I. Topics include the transition from colonial to imperial status; the changing role of the US in international relations; interaction between domestic politics and foreign policy; political, economic, and cultural relationships between Americans and other peoples.

### **History 1650b. Foreign Relations of the US II**

Catalog Number: 4745

*Ernest R. May and Erez Manela*

*Half course (spring term). Tu., Th., at 11 and a weekly section to be arranged. EXAM GROUP: 13*

American foreign relations since World War I. Topics include the world role of the supposedly



isolated US in the interwar years, World War II, postwar “hegemony,” the Cold War, and political, economic, and cultural interaction between Americans and other peoples.

**[History 1651. History of American Capitalism]**

Catalog Number: 0227

*Sven Beckert*

*Half course (spring term). Hours to be arranged.*

Examines the development of the American economy from its beginnings to the present. Focuses on the nature of economic change during the past 400 years and the reasons for and effects of capitalist growth. Topics include Native-American economies, the industrial revolution, slavery, the rise of new business structures, labor relations, and technological change.

*Note:* Expected to be given in 2006–07.

**History 1655. Native American Identities: Conference Course**

Catalog Number: 7019

*Malinda Maynor Lowery*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Using readings in history, literature, anthropology, sociology, law and policy, and the arts, this conference course will explore how Native Americans define themselves to one another and to non-Indians in local, personal, tribal, and national contexts.

**History 1657. Native America: The East**

Catalog Number: 1723

*Malinda Maynor Lowery*

*Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6*

By using culture to analyze Native American history, students will gain a deeper understanding of the oral and spiritual histories of Native people east of the Mississippi prior to the arrival of Columbus, why and how Native nations adapted to the European presence, and how colonial and United States Indian policy developed through the late twentieth century.

**History 1658. Native America: The West**

Catalog Number: 5296

*Malinda Maynor Lowery*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

By using culture to analyze Native American history, students will gain a deeper understanding of the oral and spiritual histories of Native people west of the Mississippi prior to the arrival of Columbus, why and how Native nations adapted to the European presence, and how colonial and US Indian policy developed through the late twentieth century.

**\*History 1661. Social Thought in Modern America**

Catalog Number: 8440 Enrollment: Limited to 75.

*James T. Kloppenberg*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An inquiry into American ideas since 1890, examining developments in political and social theory, philosophy, and literature in the context of socioeconomic change. Topics include the breakdown of Victorian idealism and laissez-faire; the emergence of social science and



progressivism; conflicts over gender, race, and ethnicity; interwar cultural ferment and political reform; post-World War II theories of consensus and 1960s radicalism; and the consequences for democracy of our contemporary culture of irony.

**[History 1664. African American Intellectual History: Conference Course]**

Catalog Number: 0234

*Evelyn Brooks Higginbotham*

*Half course (spring term). Hours to be arranged.*

Explores key ideas put forward by black and white thinkers on the African American experience. Focuses on themes of racial ideology that relate to abolitionism, black nationalism, pan-Africanism, the New Negro arts movement of the 1920s, and struggles for racial equality in the 1930s and 1960s. We examine the relationship between ideas and social context, the role of the individual, and the spectrum of black thinking from radical to conservative traditions.

*Note:* Expected to be given in 2006–07.

**History 1666. The World of William James: Conference Course**

Catalog Number: 9674 Enrollment: Limited to 15.

*James T. Kloppenberg*

*Half course (spring term). Hours to be arranged.*

Examines James's life and writings in relation to American and European thinkers such as his contemporaries Wilhelm Dilthey and Friedrich Nietzsche, his brother Henry James, his sister Alice James, and his students W.E.B. DuBois, Walter Lippmann, and Gertrude Stein.

**History 1672. The US in the 1960s**

Catalog Number: 5900

*Lisa M. McGirr*

*Half course (fall term). M., W., at 10; . EXAM GROUP: 3*

An introduction to the main developments in American society, culture, and politics during the premiere liberal decade of the 20th century. Topics include the New Frontier, the Great Society, the Vietnam war, the Civil Rights movement, the student movement, the counter-culture, and the rise of populist conservatism.

**History 1679. Making America Modern: The US during the 1920s: Conference Course**

Catalog Number: 9496 Enrollment: Limited to 15.

*Lisa M. McGirr*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Looking at the US in the period from the Great War to the Depression, closely explores the central developments of the decade—in society, culture, and politics—to determine its contribution to the making of “modern America.”

**[History 1690. The US and Imperialism: Conference Course]**

Catalog Number: 7201 Enrollment: Limited to 15.

*Erez Manela*

*Half course (fall term). Hours to be arranged.*

Explores American ideas and practices of imperialism, and anti-imperialism, in the 20th century, and their impacts on societies abroad. Topics include the US as colonial power; imperialism and



anti-imperialism in American visions of international order; interactions with European imperialism; and attitudes and policies on decolonization and “nation-building” during the Cold War.

*Note:* Expected to be given in 2006–07.

**History 1692. Men, Women, and Marriage in the 20th-Century US**

Catalog Number: 4182

*Nancy F. Cott*

*Half course (spring term). M., W., at 12;. EXAM GROUP: 5*

A historical survey of gender formation, men’s and women’s social, political and economic roles, and the institution of marriage in the US since the 1890s. Will look at changes over time in gender expectations, relations between women and men, employment patterns, political efforts, family lives, and laws and meanings of marriage and its perceived alternatives.

**[History 1693. The History of Poverty in the US: Conference Course]**

Catalog Number: 8207 Enrollment: Limited to 15.

*Alexander Keyssar (Kennedy School)*

*Half course (fall term). Hours to be arranged.*

Examines pre-industrial poverty, as well as societal responses to it. Emphasis will be placed on the appearance of new forms of poverty during the industrial era of the 19th and 20th centuries and on the gradual efforts to develop policies to cope with, or even abolish, poverty.

*Note:* Expected to be given in 2006–07. Offered jointly with the Kennedy School as API-706.

***Cross-listed Courses***

**African and African American Studies 118. African-American History from the Slave Trade to 1900**

**[African and African American Studies 191. The Civil Rights Movement: Seminar]**

**[\*Economics 1357. Historical Perspectives on American Economic Ascendancy]**

**[Historical Study B-40. Pursuits of Happiness: Ordinary Lives in Revolutionary America]**

**Religion 1468. Religion in America: From the Coming of the Europeans to the 1870s**

**[Religion 1483. The Catholic Sixties]**

***Primarily for Graduates***

**[History 2600. Readings in Colonial and Revolutionary America: Proseminar]**

Catalog Number: 9176

*Jill M. Lepore*

*Half course (fall term). Hours to be arranged.*

An introduction to scholarly literature on colonial and revolutionary America. Required for History Department graduate students specializing in US history. Open to those from other fields of programs.

*Note:* Expected to be given in 2006–07.

**History 2602. Readings in the History of the US in the 19th Century: Proseminar**

Catalog Number: 2383 Enrollment: Limited to 12.



*Sven Beckert*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

The second in the sequence of three proseminars required of all graduate students in American history and open to graduate students in other history fields and other departments as space permits.

**[History 2606. Early American Social History: Seminar]**

Catalog Number: 6049

*Laurel Thatcher Ulrich*

*Half course (fall term). Hours to be arranged.*

Research culminating in the production of a scholarly essay. Some prior knowledge of the period assumed.

*Note:* Expected to be given in 2006–07.

**History 2607. Readings in the US in the 20th Century: Proseminar**

Catalog Number: 2931

*Nancy F. Cott*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

The third proseminar required of all graduate students in American history. Readings in classics and recent monographs, with attention to politics, social life, and culture.

**History 2610. Race in Early America: Status, Identity, and Power: Seminar**

Catalog Number: 9276 Enrollment: Limited to 15.

*Joyce E. Chaplin*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

A research seminar in American history in which each student will complete an article-length essay based on original research.

**History 2613. Assessing Other Governments: Seminar**

Catalog Number: 7404

*Ernest R. May*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

After examination of case studies from 19th and 20th century American and European history, chiefly from the period of the Cold War, students prepare major research papers based on original sources.

*Note:* Offered jointly with the Kennedy School of Government as ISP-310.

*Prerequisite:* Reading knowledge of at least one language other than English is ordinarily required.

**History 2616. The Art and Craft of Historical Writing: Seminar**

Catalog Number: 4655

*Jill M. Lepore*

*Half course (fall term). Th., 12–2. EXAM GROUP: 14, 15*

An intensive writing workshop and research seminar for history graduate students across field groups, divided into two parts, exposition, and narrative. Readings will be limited to essays on historical writing and samples of particularly effective academic prose.





**History 2630hf. Intellectual History: Seminar**

Catalog Number: 2382

*James T. Kloppenberg and David D. Hall (Divinity School)*

*Half course (throughout the year). W., 4–6. EXAM GROUP: 9*

Topic to be announced.

**[\*History 2640hf. Workshop in 20th-Century US History]**

Catalog Number: 0565

*Lizabeth Cohen*

*Half course (throughout the year). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* For dissertation writers only.

**History 2650hf. The Political Economy of Modern Capitalism: Seminar**

Catalog Number: 3719

*Sven Beckert and Christine Desan (Law School)*

*Half course (throughout the year). Hours to be arranged.*

A year-long research and reading course on the history of capitalism during the past 300 years.

**\*History 2662hf. Readings in American Thought**

Catalog Number: 8845 Enrollment: Limited to 20.

*James T. Kloppenberg and David D. Hall (Divinity School)*

*Half course (throughout the year). W., 4–6. EXAM GROUP: 9*

An examination of classic and contemporary histories of American thought.

**[History 2664. Race and African-American Intellectual History: Seminar]**

Catalog Number: 6804

*Evelyn Brooks Higginbotham*

*Half course (spring term). Hours to be arranged.*

A research seminar in African-American intellectual history.

*Note:* Expected to be given in 2006–07.

**[\*History 2671. American Social History: Seminar]**

Catalog Number: 0969

*Stephan Thernstrom*

*Half course (fall term). Hours to be arranged.*

Topic to be announced.

*Note:* Expected to be given in 2006–07.

**[History 2681. International Relations of the US: Seminar]**

Catalog Number: 8886

*Ernest R. May*

*Half course (spring term). Hours to be arranged.*

Research seminar focused on aspects of the Cold War, including its background in the period, 1917-1945.

*Note:* Expected to be given in 2006–07.



### ***Cross-listed Courses***

**[African and African American Studies 191. The Civil Rights Movement: Seminar]**

**[\*American Civilization 200 (formerly \*American Civilization 370). Major Works in the History of American Civilization]**

**[\\*American Civilization 201 \(formerly \\*American Civilization 371\). Themes in the History of American Civilization](#)**

**[Economics 2330. The Development of the American Economy]**

**[\\*Economics 2339. The Economic History Workshop](#)**

### ***History of Latin America***

#### ***For Undergraduates and Graduates***

#### **[History 1745. Major Problems of Colombian History, 1400–2006: Conference Course](#)**

Catalog Number: 0100

*John Womack, Jr.*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Focus on Latin America's most diversely divided country, from the first native establishments to the current civil wars. Topics include historical geography, empire, class and cultural conflicts, progress and control, imperialism, god(s), the devil(s), guns, drugs, cash, and revolution.

*Prerequisite:* History 1757 and/or 1758 helpful, but not required.

#### **[History 1746. Contestation, Rebellion, and Revolution in Brazil and Spanish South America \(1770-1808\): Conference Course](#)**

Catalog Number: 8945

*Kenneth R. Maxwell*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

A comparative examination of Brazil and the Andes in the two decades before independence. This course will explore the diverse forms of contestation in South America between 1770 and 1808. For Brazil this will involve the several pre-independence conspiracies, and for Spanish America the Rebellions in the Andes. The seminar will focus on the intellectual articulation of these movements and well as their social and economic roots.

#### **[History 1749. Turning Points in Brazilian History: From Cabral to Lula](#)**

Catalog Number: 6818

*Kenneth R. Maxwell*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

The course will begin with a discussion of Brazil led by the union organizer Lula. From an examination of the present it will look back to critical moments in the formation of Brazilian society. Each episode will be examined both in terms of its Atlantic or global dimension as well as within its domestic national context.

#### **[History 1750. Brazil Between Revolutions, 1776-1789: Conference Course](#)**

Catalog Number: 5510

*Kenneth R. Maxwell*



*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Will focus on the period between the American declaration of independence to the French revolution, and the impact of events in North America on proto-nationalist movements in Brazil, particularly on the Minas Conspiracy of 1788-1789. Will assume prior knowledge of Latin American, European and US history of this period, as well as language skills in Portuguese, Spanish and French.

### **History 1752. The Transatlantic Slave Trade: Conference Course**

Catalog Number: 2112 Enrollment: Limited to 15.

*Richard Salvucci (Trinity University)*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

This course examines the recent literature on slavery and the slave trade to take a new look at issues that have occupied scholars for the last 70 years. Students will learn to make intensive use of the Transatlantic Slave Trade Database (TSTD), which contains information on thousands of slave voyages. The main requirement of the course is an independent project that reflects the interests and backgrounds of the participants.

### **History 1756. The Cold War in Latin America: Conference Course**

Catalog Number: 9875 Enrollment: Limited to 15.

*John H. Coatsworth*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the international history of Latin America during the Cold War from 1948 to 1990, with a focus on Latin America's relations with the US and an examination of episodes of intervention and confrontation in the Caribbean basin as well as the forging of alliances and organizations that embodied and projected US power in the entire region.

### **History 1757. History of Latin America to 1825**

Catalog Number: 5991

*Kenneth R. Maxwell*

*Half course (fall term). M., W., at 11; F., at 11. EXAM GROUP: 4*

Although the course will be organized chronologically, it will focus on distinctive historical turning points and seek to explain how and why distinctive societies developed in the region over the colonial centuries. The lectures will also delineate the ways colonial Latin America was connected into Atlantic and global developments between 1492 and 1825. It will not seek to provide a comprehensive survey of all aspects of colonial Latin American history in a traditional sense.

### **History 1759. The History of Latin America, 1914-2006**

Catalog Number: 7328

*John Womack, Jr.*

*Half course (spring term). M., W., (F.), at 12 and a weekly section to be arranged. EXAM GROUP: 5*

A survey of Latin American societies and politics, from World War I to the present, with emphasis on the conjunction of global and internal changes to explain economic developments and struggles for power, justice, progress, and security.



***Cross-listed Courses***

**Foreign Cultures 46. Caribbean Societies: Socioeconomic Change and Cultural Adaptations**

***Primarily for Graduates***

**\*History 2781. Mexican Industrial and Labor History, 1546–2005: Seminar**

Catalog Number: 5731 Enrollment: Limited to 12.

*John Womack, Jr.*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Topics for 2005-2006: Industrial development; industrial labor markets and industrial work; industrial and technical divisions of labor and strategic positions; their consequences in modern Mexican economic, social, and political history.

*Prerequisite:* History 1757, 1758, and 1759 helpful, but not required.

**\*History 2782. The Economic History of Latin America: Seminar**

Catalog Number: 4261 Enrollment: Limited to 15.

*John H. Coatsworth*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Examines the evolution of the Latin American economies from the colonial era to the 20th century.

*Note:* Open to undergraduates with permission of instructor. Spanish or Portuguese helpful but not required.

*Prerequisite:* Rudimentary economics, and some Latin American history.

***History of Asia, Africa, and Australasia***

***For Undergraduates and Graduates***

**History 1815. History of Indonesia in Colonial Time, 1600–1942: Conference Course**

Catalog Number: 2616

*Johan L. Blussé (Leiden University)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

An examination of the autonomous and colonial history of the people that inhabited the Indonesian archipelago in the last four centuries and analyzes the way in which present political boundaries came into existence.

**History 1821. Modern Vietnam**

Catalog Number: 8192

*Hue-Tam Ho Tai*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Survey of Vietnamese history from 1802 to the present. Covers the period of unified rule under the Nguyen dynasty, French colonial conquest, the struggle for independence, the Vietnam War, and the recent unification under Communism. Major topics include the relationship between the state, the village, and the individual; the transformation of Vietnamese society, culture, and



politics under French rule; the rise of nationalism and Communism; the causes and consequences of the Vietnam War.

### **History 1824. The Emergence of Modern China**

Catalog Number: 0171

*Philip A. Kuhn*

*Half course (spring term). Tu., Th., at 2; EXAM GROUP: 16*

Chinese are deeply conscious of the historical origins of their present-day society. Two centuries of foreign conflict, domestic rebellion, cultural transformation and nation building have shaped their society and politics. We trace the roots of modern China through writings of Chinese themselves about how they have viewed their world. Readings and discussions emphasize primary sources in translation.

*Note:* No prior study of Chinese history necessary.

### **[History 1826. 20th Century China]**

Catalog Number: 7445

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*Half course (fall term). Hours to be arranged.*

An introduction to 20th century China, covering the 1911 revolution to Deng Xiaoping's reforms in the 1980s. Will explore the themes of state building, nationalism, social change, the development of political parties, and will focus on the political, social and cultural changes that led up to and resulted from the revolution of 1949.

*Note:* Expected to be given in 2006–07.

### **[History 1827. Nationalism and Ethnicity in China]**

Catalog Number: 8688

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*Half course (spring term). Hours to be arranged.*

Will examine how changes in social and political conditions have altered Chinese identity since the eighteenth century. Topics include traditional models of identity, the creation of ethnic minorities, ideas of race and nationhood, the interaction between nationalism and communism, and the changing nature of Chinese nationalism in the 1980s and 90s.

*Note:* Expected to be given in 2006–07.

### **[History 1828. Christianity and Chinese Society: Conference Course]**

Catalog Number: 2587

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*Half course (fall term). Hours to be arranged.*

Examines the history of Catholic and Protestant Christianity in China from the 16th century to the present. The focus is on non-elite Chinese believers and the ways in which Christianity affected their lives.

*Note:* Expected to be given in 2006–07.

### **History 1851. 20th-Century Japan**

Catalog Number: 8696

*Yuma Totani (University of California, Berkeley)*



*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

Japan's emergence as a world power and the Japanese experience of modernity. Politics, social movements, and culture of the imperial era; the experience of World War II and postwar occupation; the "economic miracle" and postwar political economy; social and cultural transformation. From the 1980s boom to the 1990s bust; the early end to the Japanese century?

### **History 1853. Freedom and Bondage in Modern Japan: Conference Course**

Catalog Number: 4871

*Daniel V. Botsman*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Examines the role that ideas about freedom and liberation have played in modern Japanese society, and their relationship to the problem of bondage and "unfreedom". Topics will include the "emancipation" of outcasts, peasants, and prostitutes in the early Meiji period; the reception of Western political concepts by Japanese intellectuals; the rise of the "Movement for Freedom and Popular Rights"; the development of new forms of labor relationships; and the question of empire and liberation.

### **[History 1854. Gender and Japanese History: Conference Course]**

Catalog Number: 5348 Enrollment: Limited to 15.

*Daniel V. Botsman*

*Half course (fall term). Hours to be arranged.*

Focuses on the experiences of women, and issues of gender and sexuality to explore important aspects of Japanese social history in the modern era. Specific topics will include the usefulness of individual life stories for understanding history; the value of anthropology and ethnography as complements to historical research; the history of sexuality; the place of prostitution in Japanese society and the rise of the 'Geisha'; and the issue of Japan's wartime "comfort women."

*Note:* Expected to be given in 2007–08.

*Prerequisite:* At least one course on either Japanese History or Gender History.

### **[History 1874. The Middle East During the First Wave of Modern Globalization, 1870-1925: Conference Course]**

Catalog Number: 2291

*E. Roger Owen*

*Half course (spring term). Hours to be arranged.*

Examines the place of the Middle East during the first wave of modern globalization including the role of formal and informal empire, government and greater economic integration. Explores different ways of writing such a history using case studies designed to illustrate different aspects of the various processes involved.

*Note:* Expected to be given in 2006–07.

### **History 1877a. History of the Near East, 600-1055**

Catalog Number: 1770

*Roy Mottahedeh*

*Half course (fall term). Tu., Th., at 1 with section to be arranged. EXAM GROUP: 15*

A survey of the history of the Near East and North Africa from the rise of Islam in the 7th century to the Turkish ascendancy in the mid-11th century. Includes Muhammad and his



community, Arab conquests, Umayyads and Abbasids, sectarian movements, minority communities, government and religious institutions, relations with Byzantium and the Latin West.

**[History 1877b. History of the Near East, 1055-1517: Conference Course]**

Catalog Number: 3026

*Roy Mottahedeh*

*Half course (spring term). Hours to be arranged.*

Surveys history of the Near East from the coming of the steppe peoples to the Ottoman conquest of Egypt. Includes Seljuks, Crusades, Mongols, and the fall of the Abbasid caliphate, Mamluks, the development of Mediterranean and Indian Ocean trade, and the Timurids and their successors.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* History 1877a helpful, but not required.

**[History 1878b. Ottoman State and Society II (1550-1920)]**

Catalog Number: 6470

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*Half course (fall term). Hours to be arranged.*

Surveys the transformations of the classical Ottoman order in the Middle East and southeastern Europe until the demise of the state. Topics include decentralization; social disturbances; the impact of the new world economy and new trade routes; reforms; changing relations with Europe; nationalist movements; the 'Eastern Question.' Ethnic structure, rural society, urban popular culture, guilds, gender and family life are also examined. The importance of this era for understanding today's Middle East is stressed.

*Note:* Expected to be given in 2006–07.

**History 1890b. The Economic History of the Middle East Since World War II**

Catalog Number: 1249

*E. Roger Owen*

*Half course (spring term). Tu., Th., at 10 and a weekly section to be arranged. EXAM GROUP: 12*

A critical overview of the processes of economic growth and transformation in the Middle East from World War II to the present. Countries to be studied include Egypt, Syria, Lebanon, Jordan, Iraq, the Arab states of the Arabian Peninsula, Israel/Palestine, Iran and Turkey.

**[History 1895. The Indian Ocean in Comparative Perspective: Conference Course]**

Catalog Number: 8123

*Sugata Bose*

*Half course (spring term). Hours to be arranged.*

Explores the history of the Indian Ocean inter-regional arena in the comparative context of histories of the Atlantic, Mediterranean and the Pacific worlds from the 1490s to the 1990s. The changing meanings of sovereignty, religiously informed universalisms and the links forged by intermediary capital and migrant labor in the age of global empire.

*Note:* Expected to be given in 2006–07.





**[History 1897. Nation, Reason and Religion in South Asia]**

Catalog Number: 1447

*Sugata Bose*

*Half course (spring term). Hours to be arranged.*

Examines the connections between nation, reason and religion in South Asian political thought and practice. Precolonial patriotisms, rational and religious reforms, colonial modernity and anti-colonial nationalisms, visions of nationhood and forms of state power, and post-colonial nationalisms for and against the state.

*Note:* Expected to be given in 2006–07.

**[History 1904. The History of Sub-Saharan Africa to 1860]**

Catalog Number: 5936

*Emmanuel K. Akyeampong and Caroline M. Elkins*

*Half course (fall term). Hours to be arranged.*

Survey of sub-Saharan Africa to 1860, with attention to the range of methodologies used in writing early African history, including oral history, archaeology, and anthropology. Will address themes of the impact of climate change on migration and settlement, trade and commerce, state formation, slavery, and the impact of Islam and Christianity on the continent. Will provide a methodological and historiographical framework in which more specific historical processes and events may be placed and understood.

*Note:* Expected to be given in 2007–08.

**History 1905. Frontiers in Southern African History**

Catalog Number: 6526

*Heidi Gengenbach (Boston University)*

*Half course (fall term). M., W., at 10;. EXAM GROUP: 3*

A thematic introduction to the history of southern Africa from earliest human settlements to the present. Topics include the relationship between environment, politics, and culture; ethnicity and sexuality in Dutch settler communities; slavery; the rise of the Zulu kingdom; missionaries and European imperialism; diamonds, gold, and African workers; Afrikaner nationalism and apartheid; anti-apartheid movements; liberation struggles in Mozambique, Zimbabwe, and Namibia; challenges facing the “New South Africa”; and the politics of historical memory during/after apartheid.

**[History 1912. Health, Disease, and Ecology in African History: Conference Course]**

Catalog Number: 5905 Enrollment: Limited to 14.

*Emmanuel K. Akyeampong*

*Half course (spring term). Hours to be arranged.*

Examines the history of disease and health in sub-Saharan Africa from the 19th century to recent times, exploring African and western concepts of health, disease and healing. Illustration through discussion of case studies of individual diseases, including malaria/sickle cell trait, trypanosomiasis, tuberculosis, sexually transmitted diseases, alcoholism, AIDS, and onchocerciasis, and the public health policies affecting them.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Senior level undergraduate course.



### **History 1916. British Colonial Violence in the 20th Century: Conference Course**

Catalog Number: 4626

*Caroline M. Elkins*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Will explore Britain's deployment of various forms of violence in its 20th-century empire, and how this violence was understood, justified, and represented in the empire and at home. Imperial objectives and policies will be weighed alongside local factors such as race, settler presence, indigenous responses to colonial rule, and economic and strategic interests to assess the universality and particularity of British colonial violence.

### **History 1917. Human Rights in Africa: An Historical Perspective: Conference Course**

Catalog Number: 4514

*Caroline M. Elkins*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

An examination of the evolution of human rights in sub-Saharan Africa during the 20th century and its impact on states and societies throughout the region. The theoretical underpinnings of international human rights accords will be assessed alongside African conceptualizations of individual rights and community obligations. The tension between concepts of universal rights, civilization, and cultural relativism will be explored through an examination of specific case studies in the colonial and post-colonial periods.

### **History 1918. Colonialism in African History, 1880-1980**

Catalog Number: 8022

*Heidi Gengenbach (Boston University)*

*Half course (spring term). Tu., Th., at 11;. EXAM GROUP: 13*

Explores the background to European colonization of Africa, the diverse and multifaceted encounters between colonizers and African peoples, and the political, economic, and social ramifications of colonial rule. Focusing on African initiatives and local experiences during this period of rapid change, topics include societies of late precolonial Africa; conquest and resistance; mission Christianity; colonial government and “native policy”; cities and workers; education, tradition and modernity; women, sexuality, and health; youth and popular culture; and African nationalism and independence.

### **History 1919. Farmers, Food, and Famine in African History: Conference Course**

Catalog Number: 5490

*Heidi Gengenbach (Boston University)*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Environmental history of sub-Saharan Africa focusing on changes in rural ecologies, agrarian cultures, and food production systems since the mid-19th century. Topics include strategies of land, water, forest, and wildlife management; indigenous agricultural and conservation science; gender and ecology control; the role of governments (precolonial, colonial, postcolonial) in environmental change; war and rural environments; the politics of famine and food crisis in modern Africa; and debates about rural development policies and programs.

### ***Cross-listed Courses***



[Foreign Cultures 60. Individual, Community, and Nation in Vietnam](#)  
[Historical Study A-13. China: Traditions and Transformations](#)  
[Historical Study A-14. Japan: Tradition and Transformation](#)  
[Historical Study A-16. The Making of Modern South Asia]  
[Historical Study B-52. Slavery and Slave Trade in Africa and the Americas]  
[Historical Study B-67. Japan's Modern Revolution](#)  
[Historical Study B-68. America and Vietnam: 1945-1975]  
[Japanese History 111b. The Shogun's Realm, 1600-1868](#)  
[Korean History 111. Traditional Korea](#)  
[Korean History 118. History of the Choson Dynasty: Conference Course]  
[Literature and Arts C-40. The Chinese Literati](#)  
[Literature and Arts C-42. Constructing the Samurai](#)  
[Persian 150r. Readings in Persian Historians, Geographers and Biographers](#)

*Primarily for Graduates*

**[History 2822. Research Methods for 20th-Century Chinese History: Seminar]**

Catalog Number: 0617

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*Half course (spring term). Hours to be arranged.*

Introduction to materials for modern Chinese history, including memoirs, diaries, sociological reports, gazetteers, government documents, and inscriptions. Includes a discussion of translation, unpunctuated or handwritten texts, and interviewing for oral history.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of Chinese.

**[History 2847. 20th-Century China: Seminar]**

Catalog Number: 0279

*William C. Kirby*

*Half course (fall term). Hours to be arranged.*

For graduate students pursuing original research in Chinese history of the 20th century.

Introduction to major research aids and published documentary collections.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of Chinese.

**[History 2848a. Introduction to Archival Research in Chinese History: Seminar](#)**

Catalog Number: 1863

*Philip A. Kuhn*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Training in the reading and analysis of the major types of Chinese archival documents from the Qing period and after. Original materials are used, with the aim of preparing students to do doctoral research in China.

*Note:* Open to qualified undergraduates with permission of instructor.

*Prerequisite:* Chinese 106b or equivalent training.



**\*History 2851. Japanese History: Seminar**

Catalog Number: 5146 Enrollment: Limited to 15.

*Mikael Adolphson, Harold Bolitho, Daniel V. Botsman and Andrew Gordon*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

*Prerequisite:* Reading knowledge of Japanese.

**History 2854. Issues in Tokugawa and Meiji History: Seminar**

Catalog Number: 0305 Enrollment: Limited to 15.

*Daniel V. Botsman*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Explores new perspectives on a number of key historiographical issues in the study of Tokugawa and Meiji Japan. Engages both topics of current interest among historians in Japan and theoretical literature from outside the field of Japanese history.

**History 2882. Readings in the History of Iraq, 1900–2005: Seminar**

Catalog Number: 4735

*E. Roger Owen*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Readings selected to provide an understanding of Iraq's 20th-century political and socio-economic history.

**History 2884. Topics in Ottoman Social and Cultural History: Seminar**

Catalog Number: 3762

*Cemal Kafadar*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Topic to be announced.

*Prerequisite:* Reading knowledge of Turkish.

**History 2885. Introduction to Archival Research in Ottoman History: Proseminar**

Catalog Number: 3274

*Cemal Kafadar*

*Half course (fall term). Th., 10–1. EXAM GROUP: 12, 13, 14*

A survey of archival collections related to Ottoman history. Introduction to the archives of the central government, pious endowments, provincial administrations, and court records.

*Prerequisite:* Reading knowledge of Turkish.

**History 2886r. Topics in Islamic History: Seminar**

Catalog Number: 3470

*Roy Mottahedeh*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Topic to be announced.

**History 2887a. Debates in the Economic and Social History of the Middle East: Seminar**

Catalog Number: 1352

*E. Roger Owen*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*



Major debates concerning analysis of modern economic and social transformation of the Middle East including issues of class and community, popular movements, landed property, the impact colonialism and state/society relations.

**[History 2887b. Debates in the Political and Ideological History of the Middle East: Seminar]**

Catalog Number: 4102

*E. Roger Owen*

*Half course (fall term). Hours to be arranged.*

Major questions and debates in modern Arab political and ideological writings including Orientalism, Arab and local nationalism, religious revival, power and authority, and the difficulties of establishing democratic institutions.

*Note:* Expected to be given in 2006–07.

**[History 2892. Colonial and Post-Colonial Histories of South Asia: Seminar]**

Catalog Number: 8502

*Sugata Bose*

*Half course (spring term). Hours to be arranged.*

Analyzes trends and debates in historical research and writing on colonial and post-colonial South Asia.

*Note:* Expected to be given in 2006–07.

**[History 2908. Sources, Methodology, and Themes in African History: Seminar]**

Catalog Number: 5861 Enrollment: Limited to 12.

*Emmanuel K. Akyeampong*

*Half course (fall term). Hours to be arranged.*

Seminar to equip graduate students with the necessary tools for archival research and fieldwork, as well as to introduce them to recent approaches in the historiography.

*Note:* Expected to be given in 2006–07.

**[History 2909. Themes in Modern Sub-Saharan African History: Proseminar]**

Catalog Number: 5840 Enrollment: Limited to 14.

*Caroline M. Elkins*

*Half course (fall term). Hours to be arranged.*

An in-depth study of the major themes in sub-Saharan African history from the mid-19th century to the present, including the scholarship and debates on the changing relationship between Africa and the West.

*Note:* Expected to be given in 2007–08. Open to undergraduates with permission of instructor.

**[History 2913. Sex and Empire: Seminar](#)**

Catalog Number: 0076

*Heidi Gengenbach (Boston University)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

A seminar on the comparative history of European imperialism and colonialism through the analytical prism of gender and sexuality, including attention to sources, methodologies, and interdisciplinary approaches to this topic.



### ***Cross-listed Courses***

[Chinese History 211. Research on Chinese History and Civilization: Tools and Methods](#)  
[Chinese History 235r \(formerly Chinese History 235\). Topics in Warring States History: Seminar](#)

[Chinese History 251. Confucian Ethics: Conference Course](#)

[Korean History 230r. Readings in Premodern Korean History](#)

[\\*Korean History 255r. Modern Korean History: Seminar](#)

### ***Historiography and Methodology***

#### ***For Undergraduates and Graduates***

[History 1942. The Historiography of Reformation Europe, 1450-1650: Conference Course](#)

Catalog Number: 5887

Steven Ozment

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

An introduction to Reformation scholarship. Both classic and recent studies are read and discussed, and new fields of research explored. Attention given to a variety of national traditions and to the major historiographical controversies.

[History 1984. Understanding Democracy Through History](#)

Catalog Number: 1517

Alexander Keyssar (Kennedy School)

*Half course (spring term). Tu., Th., 1:10–2:30. EXAM GROUP: 15, 16*

Examines the evolution of democracies in different nations over extended periods of time, and will focus on one fundamental issue: Under what circumstances or conditions have democracies (or political rights) expanded, and under what circumstances of conditions have they contracted? Readings will include historical studies as well as comparative theoretical works.

*Note:* Offered jointly with the Kennedy School as API-703. This course may be lotteried.

#### ***Primarily for Graduates***

**[History 2902. Studies in Tudor and Stuart History]**

Catalog Number: 1428

Mark A. Kishlansky

*Half course (spring term). Hours to be arranged.*

A graduate colloquium designed for students preparing preliminary examinations in early modern history or interested in English historiography of the early modern period.

Historiographical papers and reviews.

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.

[\\*History 2904. Readings in Japanese History: Proseminar](#)

Catalog Number: 4041

Andrew Gordon

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*



A graduate colloquium for students preparing for general examinations in modern Japanese history or interest in English-language historiography of modern Japan.

**[History 2910. Feminist Theory and Historiography: Proseminar]**

Catalog Number: 8131 Enrollment: Limited to 15.

*Afsaneh Najmabadi*

*Half course (fall term). Hours to be arranged.*

An introduction to feminist contributions to “doing history” otherwise. Will review major feminist theoretical propositions and proceed to re-stage the theoretical debates within feminist historiography.

*Note:* Expected to be given in 2007–08.

**History 2912. What is History? Concepts, Practices, Critique: Seminar**

Catalog Number: 4766

*Afsaneh Najmabadi and Judith Surkis*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Offers a thematically structured critical introduction to key concepts, methods, and problems of historical practice and writing; examining the history of history, philosophies of history, the relationship of history to other disciplines.

***Cross-listed Courses***

**[Economics 2333. Historical Perspectives on Current Economic Issues]**

**Sociology 225. Historical Sociology: Studying Continuity and Change: Seminar**

***Graduate Courses of Reading and Research***

**\*History 3910. Writing History: Approaches and Practices**

Catalog Number: 1358

*David Blackbourn 3203 and Hue-Tam Ho Tai 6079*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Required of and limited to first-year doctoral students in History and joint degree programs in HEAL and HMES.

***Global and Comparative History***

***For Undergraduates and Graduates***

**History 1957. International Society: Conference Course**

Catalog Number: 3056 Enrollment: Limited to 15.

*Erez Manela*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

An introduction to the development of ideas and institutions of international society in the 20th century, covering the Wilsonian moment, the League of Nations, internationalist ideologies and movements, the United Nations system, human rights, decolonization and development, and non-governmental organizations.





**History 1958. Islam and Ethnicity: Conference Course**

Catalog Number: 4023 Enrollment: Limited to 12.

*Terry D. Martin*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the relationship between Islamic religious identity and ethnic identity in the Russian, Ottoman, and Indian empires and their successor states. Inquires into what extent Islam can substitute for, reinforce, or undermine ethnic identity based on theoretical and historical works.

**[History 1959. Representing Women in History]**

Catalog Number: 0237

*Laurel Thatcher Ulrich*

*Half course (fall term). Hours to be arranged.*

A cross-cultural and wide-ranging exploration of the relationship between events and representations. Topics include the use of stories about women warriors and religious visionaries to mobilize men and women in many periods and settings; the invention of new icons to solve the problem of female citizenship; and the many efforts by scholars, writers, and activists to rediscover the lives of anonymous women.

*Note:* Expected to be given in 2006–07.

**[History 1960. Punishment and the Modern World: Conference Course]**

Catalog Number: 2856

*Daniel V. Botsman*

*Half course (spring term). Hours to be arranged.*

Examines the way in which ideas about punishment, as well as actual penal practices, have played a critical role in the rise of modern states and societies. Attempts to develop a global perspective by reading historical studies about a broad range of societies. Beginning with the ideas and reforms of Enlightenment Europe, considers the rise of the prison, the transformation of corporal punishment, transportation, and the practice of punitive exile.

*Note:* Expected to be given in 2006–07.

**History 1964. International History: War, Peace, and International Organizations: Conference Course**

Catalog Number: 7774

*Charles S. Maier*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

A comparative approach to the history of international society, including sources of conflict and efforts at peacemaking, imperial and hegemonic regimes, the protection of minorities and human rights, based on the reading and discussion of classic and modern works.

*Note:* History 1964 and 1965 are designed particularly for advanced undergraduates in the international history track of the concentration and graduate students preparing a general examination field in the history of international relations.

**History 1965. International History: States, Markets, and the Global Economy: Conference Course**

Catalog Number: 7148

*Niall Ferguson and Charles S. Maier*



*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

International economic history and political economy, including strategies of economic development, international trade, migration, finance and monetary relations, based on both theoretical works and specific case studies, and focusing on the period from around 1700 to the present.

*Note:* History 1964 and 1965 are designed particularly for advanced undergraduates in the international history track of the concentration and graduate students preparing a general examination field in the history of international relations.

**\*History 1966. Oil, Energy, and the Environment: Conference Course**

Catalog Number: 6450 Enrollment: Limited to 15.

*Alison F. Frank*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Considers the political, economic, environmental, social, and cultural interaction of human society with oil in the nineteenth and, primarily, twentieth centuries. Analyzes the extent to which oil is a global good, held accountable for war, poverty, and prosperity—and the ways in which oil industries are locally, regionally, and nationally colored. Major themes include the influence of oil on social structure, economic development, the physical environment, natural landscapes, national and regional identity, and gender relations.

***Primarily for Graduates***

**[History 2906. International History: Seminar]**

Catalog Number: 0453

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*Half course (fall term). Hours to be arranged.*

Research seminar in the history of modern international relations.

*Note:* Expected to be given in 2006–07.

**[History 2911. Theories of International Relations: Seminar]**

Catalog Number: 6430

*David R. Armitage*

*Half course (fall term). Hours to be arranged.*

An historical introduction to theories of war and peace, sovereignty, diplomacy, colonialism, international law, and international relations since the fifteenth century. Readings include primary and secondary sources.

*Note:* Expected to be given in 2007–08.

***Cross-listed Courses***

**[\*American Civilization 200 (formerly \*American Civilization 370). Major Works in the History of American Civilization]**

***Graduate Courses of Reading and Research***


**\*History 3000. Direction of Doctoral Dissertations**

Catalog Number: 4630

Emmanuel K. Akyeampong 3421 (on leave 2005-06), David R. Armitage 5023, Sven Beckert 2415, Thomas N. Bisson 1451, David Blackburn 3203, Ann M. Blair 2467, Peter K. Bol 8014, Harold Bolitho 1176, Sugata Bose 3960 (on leave 2005-06), Daniel V. Botsman 1249, Vincent Brown 4638 (on leave 2005-06), Joyce E. Chaplin 1058, John H. Coatsworth 3248, Elizabeth Cohen 3627 (on leave 2005-06), Nancy F. Cott 4261, Albert M. Craig 1847, Caroline M. Elkins 3961, Drew Gilpin Faust 3857, Niall Ferguson 4938 (on leave fall term), Alison F. Frank 5313, Andrew Gordon 1891, Peter E. Gordon 3907 (on leave 2005-06), James Hankins 1239, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Patrice Higonnet 2730, Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Christopher P. Jones 3204 (on leave 2005-06), Cemal Kafadar 2459, Edward L. Keenan 1825, Alexander Keyssar (Kennedy School) 4323, William C. Kirby 3128, Mark A. Kishlansky 2895 (on leave 2005-06), James T. Kloppenberg 3157, Philip A. Kuhn 8051 (on leave fall term), Angeliki E. Laiou 7282 (on leave 2005-06), Jill M. Lepore 4830, Mary D. Lewis 4369 (on leave spring term), Malinda Maynor Lowery 5320, Charles S. Maier 7227, Erez Manela 4762, Terry D. Martin 2966, Kenneth R. Maxwell 5173, Ernest R. May 1817, Michael McCormick 2849 (on leave 2005-06), Lisa M. McGirr 2543, Roy Mottahedeh 1454, John E. Murdoch 1877, Afsaneh Najmabadi 4052 (on leave spring term), Eric M. Nelson 5345, Susan E. O'Donovan 3962, E. Roger Owen 1028, Steven Ozment 6197 (on leave spring term), Michael J. Puett 1227, Eric W. Robinson 2724 (on leave spring term), Emma Rothschild (King's College, Cambridge) 5001, Daniel L. Smail 5343 (spring term only), Rachel St. John 5328, Judith Surkis 4184, Roman Szporluk 3033, Hue-Tam Ho Tai 6079, Stephan Thernstrom 4141 (on leave 2005-06), Laurel Thatcher Ulrich 1886, John Womack, Jr. 1863, and James Wood 4720

**\*History 3010. Reading and Research**

Catalog Number: 3424

Emmanuel K. Akyeampong 3421 (on leave 2005-06) (fall term only), David R. Armitage 5023, Sven Beckert 2415, Thomas N. Bisson 1451, David Blackburn 3203, Ann M. Blair 2467, Johan L. Blussé (Leiden University) 5399 (spring term only), Peter K. Bol 8014, Harold Bolitho 1176, Sugata Bose 3960 (on leave 2005-06), Daniel V. Botsman 1249, Vincent Brown 4638 (on leave 2005-06), Elena I. Campbell 5287, Joyce E. Chaplin 1058, John H. Coatsworth 3248, Elizabeth Cohen 3627 (on leave 2005-06), Nancy F. Cott 4261, Emma Dench (Birkbeck College, University of London) 5243, Charles Donahue, Jr. (Law School) 2650 (on leave 2005-06) (fall term only), Caroline M. Elkins 3961, Mark C. Elliott 3329, Drew Gilpin Faust 3857, Niall Ferguson 4938 (on leave fall term), Alison F. Frank 5313, Ivan Gaskell 3174, Heidi Gengenbach (Boston University) 5314, Andrew Gordon 1891, Peter E. Gordon 3907 (on leave 2005-06) (fall term only), David D. Hall (Divinity School) 2510, James Hankins 1239, Jay M. Harris 2266 (on leave fall term), Joachim Henning (Goethe University) 5327 (fall term only) (fall term only), Evelyn Brooks Higginbotham 3517 (on leave 2005-06) (fall term only), Patrice Higonnet 2730, Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Christopher P. Jones 3204 (on leave 2005-06) (fall term only), Cemal Kafadar 2459, Edward L. Keenan 1825, Duncan M. Kennedy (Law School) 5346, Alexander Keyssar (Kennedy School) 4323, William C. Kirby 3128, Mark A. Kishlansky 2895 (on leave 2005-06), James T. Kloppenberg 3157, Philip A. Kuhn 8051 (on leave fall term), Angeliki E. Laiou 7282 (on leave 2005-06), Jill M. Lepore 4830, Mary D. Lewis 4369 (on leave spring term), Malinda Maynor Lowery 5320, Charles S. Maier 7227, Erez Manela 4762, Terry D. Martin 2966, Kenneth R. Maxwell 5173, Ernest R. May 1817, Michael



McCormick 2849 (on leave 2005-06), Lisa M. McGirr 2543, Roy Mottahedeh 1454, John E. Murdoch 1877, Afsaneh Najmabadi 4052 (on leave spring term), Eric M. Nelson 5345, Susan E. O'Donovan 3962, E. Roger Owen 1028, Steven Ozment 6197 (on leave spring term), Michael J. Puett 1227, Eric W. Robinson 2724 (on leave spring term), Emma Rothschild (King's College, Cambridge) 5001, Sharmila Sen 2509, Daniel L. Smail 5343 (spring term only), Rachel St. John 5328, Judith Surkis 4184, Roman Szporluk 3033, Hue-Tam Ho Tai 6079, Stephan Thernstrom 4141 (on leave 2005-06), Laurel Thatcher Ulrich 1886, John Womack, Jr. 1863, James Wood 4720, and Jan Ziolkowski 7275 (on leave 2005-06)

*Half course (fall term; repeated spring term). Fall: F., 1–3; Tu., 3–5; Spring: F., 1–3; Th., 2–4.*

Instructors listed above under History 3010 supervise individual work in preparation for the General Examination for the PhD degree.

*Note:* Limited to candidates for the PhD who are in residence, who have been for a year in residence, and who are in good standing in the Graduate School. May ordinarily be taken only in preparation for a field (or fields) to be examined on the General Examination. May not be counted toward the AM degree except by permission of the Department.

## History and Literature

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Members of the Steering Committee on Degrees in History and Literature*

Jill M. Lepore, Professor of History (*Chair*)

Homi K. Bhabha, Anne F. Rothenberg Professor of English and American Literature and Language

Steven Biel, Senior Lecturer on History and Literature (*Director of Studies*)

Ann M. Blair, Henry Charles Lea Professor of History

Sugata Bose, Gardiner Professor of Oceanic History and Affairs (*on leave 2005-06*)

Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology

Julie A. Buckler, Professor of Slavic Languages and Literatures

Lawrence Buell, Powell M. Cabot Professor of American Literature

Lizabeth Cohen, Howard Mumford Jones Professor of American Studies (*on leave 2005-06*)

Daniel G. Donoghue, John P. Marquand Professor of English

James Engell, Gurney Professor of English Literature and Professor of Comparative Literature

Lynn M. Festa, Gardner Cowles Associate Professor of English and American Literature and Language (*on leave fall term*)

Stephen J. Greenblatt, Cogan University Professor

Virginie Greene, Professor of Romance Languages and Literatures, Associate of Kirkland House



Blair Hoxby, Associate Professor of History and Literature  
Robert J. Kiely, Harvard College Professor and Donald P. and Katherine B. Loker Professor of English (*on leave spring term*)  
Barbara K. Lewalski, William R. Kenan, Jr. Professor of History and Literature and of English Literature  
Leah Price, Professor of English and American Literature and Language  
Charles E. Rosenberg, Ernest E. Monrad Professor of the Social Sciences (*on leave spring term*)  
Doris Sommer, Ira Jewell Williams, Jr., Professor of Romance Languages and Literatures  
John Stauffer, Professor of English and American Literature and Language and Professor of African and African American Studies  
Judith Surkis, Associate Professor of History and of History and Literature

***Affiliated Members of the Committee on Degrees in History and Literature***

David D. Hall, Bartlett Professor of New England Church History (*Divinity School*)  
Helen Vendler, Arthur Kingsley Porter University Professor (*on leave 2005-06*)

***Other Faculty Offering Instruction in the History and Literature Program***

Rory A. W. Browne, Lecturer on History and Literature  
Kimberly C. Davis, Lecturer on History and Literature  
Carrie A. Endries, Lecturer on History and Literature  
Rebecca S. Erwin, Lecturer on History and Literature  
Karen P. Flood, Lecturer on History and Literature  
Rena Fonseca, Lecturer on History and Literature  
Debra L. Gettelman, Lecturer on History and Literature  
Sara K. Hallisey, Lecturer on History and Literature  
Lori B. Harrison-Kahan, Lecturer on History and Literature  
Charles W. M. Henebry, Lecturer on History and Literature and Preceptor in Expository Writing  
Andrew J. Huebner, Lecturer on History and Literature  
Laura K. Johnson, Lecturer on History and Literature  
Stephen H. Kargere, Lecturer on History and Literature  
Amy M. Kittelstrom, Lecturer on History and Literature  
Laura A. Lisy-Wagner, Lecturer on History and Literature  
James N. Mancall, Lecturer on History and Literature  
Michele C. Martinez, Lecturer on History and Literature and on English and American Literature and Language  
Timothy P. McCarthy, Lecturer on History and Literature  
Maureen N. McLane, Lecturer on History and Literature  
John C. McMillian, Lecturer on History and Literature  
John G. Palfrey, Lecturer on History and Literature  
David W. Pansing, Lecturer on History and Literature  
Sharrona H. Pearl, Lecturer on History and Literature  
Josiane Peltier, Lecturer on History and Literature  
Wanda I. Rivera-Rivera, Lecturer on History and Literature  
Zahr S. Stauffer, Lecturer on History and Literature



William J. Suarez-Potts, Lecturer on History and Literature  
Lisa Szeffel, Lecturer on History and Literature  
Woden S. Teachout, Lecturer on History and Literature  
John E. Tessitore, Lecturer on History and Literature  
James E. von der Heydt, Lecturer on History and Literature  
James Wilkinson, Lecturer on History and Literature  
Leigh A. Yetter, Lecturer on History and Literature

***Primarily for Undergraduates***

**\*History and Literature 91r. Group Seminars and Supervised Reading and Research**

Catalog Number: 0334

*Steven Biel and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Each year History and Literature offers small group seminars on selected topics. These courses are posted on the History and Literature website, and are open to nonconcentrators with permission of the instructor. History and Literature concentrators may also arrange individually supervised reading and research courses; the permission of the Director of Studies is required for these individually supervised reading and research courses.

**\*History and Literature 97. Tutorial — Sophomore Year**

Catalog Number: 4177

*Steven Biel and members of the Committee*

*Full course. Hours to be arranged.*

Introduction to interdisciplinary methods and to topics in students' chosen fields.

*Note:* Ordinarily taken by sophomores as a full course. Nonconcentrators wishing to take a half or full year of the sophomore tutorial may do so with the permission of the Director of Studies. To take one term only, a divide with credit petition must be filed.

**\*History and Literature 98r. Tutorial — Junior Year**

Catalog Number: 2766

*Steven Biel and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

An individually supervised study of selected topics in the student's chosen field in History and Literature.

*Note:* Ordinarily taken as two half courses by juniors. Required of all concentrators.

**\*History and Literature 99. Tutorial — Senior Year**

Catalog Number: 5362

*Steven Biel and members of the Committee*

*Full course. Hours to be arranged.*

Research and writing of the senior thesis; preparation for the oral exam.

*Note:* Ordinarily taken by seniors as a full course. Required of all concentrators.





A list of the courses in other departments that count for History and Literature is available in our office at the Barker Center and at [www.fas.harvard.edu/~histlit](http://www.fas.harvard.edu/~histlit).

## History of American Civilization

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Higher Degrees in the History of American Civilization*

James T. Kloppenberg, Harvard College Professor and David Woods Kemper '41 Professor of American History (*Chair*)  
Sven Beckert, Professor of History  
Lawrence Buell, Powell M. Cabot Professor of American Literature  
Joyce E. Chaplin, Professor of History  
Lizabeth Cohen, Howard Mumford Jones Professor of American Studies (*on leave 2005-06*)  
Nancy F. Cott, Jonathan Trumbull Professor of American History  
Margaret Lee Crawford, Professor of Urban Design and Planning Theory (*Design School*)  
Henry Louis Gates, Jr., W.E.B. Du Bois Professor of the Humanities  
David D. Hall, Bartlett Professor of New England Church History (*Divinity School*)  
Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies (*on leave 2005-06*)  
Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies (*on leave fall term*)  
Morton J. Horwitz, Charles Warren Professor of American Legal History (*Law School*)  
Robin E. Kelsey, Assistant Professor of History of Art and Architecture  
Alexander Keyssar, Matthew W. Stirling, Jr. Professor of History and Social Policy (*Kennedy School*)  
Jill M. Lepore, Professor of History  
Louis Menand, Anne T. and Robert M. Bass Professor of English and American Literature and Language  
Elisa New, Professor of English and American Literature and Language  
Carol J. Oja, William Powell Mason Professor of Music  
Robert A. Orsi, Charles Warren Professor of History of Religion in America (*Divinity School*)  
Julie A. Reuben, Professor of Education (*School of Education*) (*on leave 2005-06*)  
Jennifer L. Roberts, Assistant Professor of History of Art and Architecture (*on leave 2005-06*)  
Charles E. Rosenberg, Ernest E. Monrad Professor of the Social Sciences (*on leave spring term*)  
Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies  
Doris Sommer, Ira Jewell Williams, Jr., Professor of Romance Languages and Literatures





John Stauffer, Professor of English and American Literature and Language and Professor of African and African American Studies  
Laurel Thatcher Ulrich, Harvard College Professor and James Duncan Phillips Professor of Early American History

***Other Faculty Offering Instruction in the History of American Civilization***

Allan M. Brandt, Professor of the History of Science (*FAS*) and Amalie Moses Kass Professor of the History of Medicine (*Medical School*)  
David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America (*FAS, Divinity School*) (*on leave fall term*)  
Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality (*on leave 2005-06*)  
Philip J. Fisher, Harvard College Professor and Felice Crowl Reid Professor of English and American Literature  
William W. Fisher, Hale and Dorr Professor of Intellectual Property Law (*Law School*)  
Donald Fleming, Jonathan Trumbull Professor of American History, Emeritus  
Akira Iriye, Charles Warren Research Professor of American History  
Barbara E. Johnson, Fredric Wertham Professor of Law and Psychiatry in Society (*on leave 2005-06*)  
Despina Kakoudaki, Assistant Professor of Visual and Environmental Studies and of Comparative Literature  
Thomas K. McCraw, Isidor Straus Professor of Business History (*Business School*)  
Susan E. O'Donovan, Associate Professor of African and African American Studies and of History  
Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English  
John R. Stilgoe, Robert and Lois Orchard Professor in the History of Landscape Development (*on leave spring term*)  
Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and Dean for the Humanities  
Stephan Thernstrom, Winthrop Professor of History (*on leave 2005-06*)  
Helen Vendler, Arthur Kingsley Porter University Professor (*on leave 2005-06*)  
Ruth R. Wisse, Harvard College Professor, Martin Peretz Professor of Yiddish Literature, and Professor of Comparative Literature

This program is interdisciplinary. Students are also referred to course offerings at the Design School, Kennedy School, and Law School. For further information about the variety of course offerings in specific departments, consult the office of the Committee, Barker Center 225, 12 Quincy Street.

***Primarily for Graduates***

**[\*American Civilization 200 (formerly \*American Civilization 370). Major Works in the History of American Civilization]**

Catalog Number: 3662

*Jill M. Lepore*



*Half course (fall term). Hours to be arranged.*

A survey of the field, with an emphasis on the range of interdisciplinary methods in the humanities, history, and social sciences.

*Note:* Expected to be given in 2006–07. Required of first and second-year graduate students in American Civilization and open to others by permission of the instructor.

**\*American Civilization 201 (formerly \*American Civilization 371). Themes in the History of American Civilization**

Catalog Number: 6797

*John Stauffer*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Interdisciplinary study of one or several topics.

*Note:* Required of first and second-year graduate students in American Civilization and open to others by permission of the instructor.

**Graduate Courses**

**\*American Civilization 398. Reading and Research**

Catalog Number: 1710

*Sven Beckert 2415, Allan M. Brandt 3031, Lawrence Buell 2655, Joyce E. Chaplin 1058, Lizabeth Cohen 3627 (on leave 2005-06), Nancy F. Cott 4261, Margaret Lee Crawford (Design School) 3934, Bradley S. Epps 2880 (on leave 2005-06), Philip J. Fisher 1470, William W. Fisher (Law School) 4257, Donald Fleming 1831, Henry Louis Gates, Jr. 2899, David D. Hall (Divinity School) 2510, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Barbara E. Johnson 7626 (on leave 2005-06), Despina Kakoudaki 3979, Robin E. Kelsey 4132, James T. Kloppenberg 3157, Jill M. Lepore 4830, Thomas K. McCraw (Business School) 7371, Louis Menand 4752, Ingrid Monson 1591, Elisa New 2428, Susan E. O'Donovan 3962, Carol J. Oja 4599, Robert A. Orsi (Divinity School) 4242, Julie A. Reuben (School of Education) 4428 (on leave 2005-06), Jennifer L. Roberts 4407 (on leave 2005-06), Werner Sollors 7424, John Stauffer 1006, Maria Tatar 3645, Stephan Thernstrom 4141 (on leave 2005-06), Laurel Thatcher Ulrich 1886, and Helen Vendler 7226 (on leave 2005-06)*

**\*American Civilization 399. Direction of Doctoral Dissertation**

Catalog Number: 8803

*Sven Beckert 2415, Allan M. Brandt 3031, Lawrence Buell 2655, David L. Carrasco (FAS, Divinity School) 4213 (on leave fall term), Joyce E. Chaplin 1058, Lizabeth Cohen 3627 (on leave 2005-06), Nancy F. Cott 4261, Philip J. Fisher 1470, William W. Fisher (Law School) 4257, Donald Fleming 1831, Henry Louis Gates, Jr. 2899, David D. Hall (Divinity School) 2510, Evelyn Brooks Higginbotham 3517 (on leave 2005-06), Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Alexander Keyssar (Kennedy School) 4323, James T. Kloppenberg 3157, Jill M. Lepore 4830, Thomas K. McCraw (Business School) 7371, Robert A. Orsi (Divinity School) 4242, Julie A. Reuben (School of Education) 4428 (on leave 2005-06), Jennifer L. Roberts 4407 (on leave 2005-06), Charles E. Rosenberg 3784 (on leave spring term), Marc Shell 3176, Werner Sollors 7424, John Stauffer 1006, John R. Stilgoe 8032 (on leave spring term),*



*Stephan Thernstrom 4141 (on leave 2005-06), Laurel Thatcher Ulrich 1886, and Ruth R. Wisse 3177*

### ***Cross-listed Courses***

[African and African American Studies 131. African-American Literature to the 1920s](#)

[\*Comparative Literature 172 (formerly \*Comparative Literature 269). Paralysis]

[English 17x. 19th-Century American Novel](#)

[English 17y. Hawthorne and His Precursors](#)

[English 17z. American Poetry from Bradstreet through Frost](#)

[\*English 90mt. Mark Twain and His World]

[English 177. Art and Thought of the Cold War](#)

[English 196. Literature of Migration and Ethnicity: The Case of the United States](#)

[\\*English 271. Poetry in America: Graduate Seminar](#)

[\\*English 276. Space, Place, and Imagination: Graduate Seminar](#)

[\\*English 292. Issues in the Study of American Literature: Graduate Seminar](#)

[Government 2392. American Political Ideologies](#)

[History 1610. Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on](#)

[North America: Conference Course](#)

[History 1632. Gilded Age America: Economy, Society, and Politics: Conference Course]

[History 1664. African American Intellectual History: Conference Course]

[History 1666. The World of William James: Conference Course](#)

[History 2600. Readings in Colonial and Revolutionary America: Proseminar]

[History 2602. Readings in the History of the US in the 19th Century: Proseminar](#)

[History 2606. Early American Social History: Seminar]

[History 2607. Readings in the US in the 20th Century: Proseminar](#)

[History 2610. Race in Early America: Status, Identity, and Power: Seminar](#)

[History 2616. The Art and Craft of Historical Writing: Seminar](#)

[History 2630hf. Intellectual History: Seminar](#)

[\*History 2640hf. Workshop in 20th-Century US History]

[History 2650hf. The Political Economy of Modern Capitalism: Seminar](#)

[\\*History 2662hf. Readings in American Thought](#)

[History 2664. Race and African-American Intellectual History: Seminar]

[History of Art and Architecture 19x. Introduction to African American Art History]

[History of Art and Architecture 175w. Pop Art]

[Music 194rs. Topics in Music from 1800 to Present: Proseminar](#)

[Music 218r. 20th-Century Music: Seminar]

[Religion 1439 \(formerly Religion 1514\). The History of Christianity: An Introduction to](#)

[Interpretive Issues](#)

[Religion 1468. Religion in America: From the Coming of the Europeans to the 1870s](#)

[Religion 1526. Religion in America from c. 1865 to the 1970s]

[Religion 2464. Radical Religion in England and America, 1550–1750: Seminar](#)

[Social Analysis 66. Race, Ethnicity, and Politics in the United States](#)

[Spanish 243 (formerly Spanish 143). Foundational Fiction and Other Cultural Agents]



# History of Art and Architecture

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of History of Art and Architecture*

Thomas B. F. Cummins, Dumbarton Oaks Professor of the History of Pre-Columbian and Colonial Art (*Chair*)  
Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies (*on leave 2005-06*)  
Benjamin Buchloh, Franklin D. and Florence Rosenblatt Professor of Modern Art  
William H. Cooldrake, Edwin O. Reischauer Visiting Professor of Japanese Studies  
Joseph Connors, Professor of History of Art and Architecture  
Frank Fehrenbach, Professor of History of Art and Architecture  
Jeffrey F. Hamburger, Professor of History of Art and Architecture (*Director of Undergraduate Studies, fall term*)  
Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art (*on leave spring term*)  
Robin E. Kelsey, Assistant Professor of History of Art and Architecture  
Ewa Lajer-Burcharth, Harvard College Professor and Professor of History of Art and Architecture (*on leave 2005-06*)  
Carrie Lambert-Beatty, Assistant Professor of History of Art and Architecture and of Visual and Environmental Studies  
Babatunde Lawal, Visiting Professor of History of Art and Architecture (*Virginia Commonwealth University*)  
Neil Levine, Emmet Blakeney Gleason Professor of History of Art and Architecture  
Yukio Lippit, Assistant Professor of History of Art and Architecture  
David G. Mitten, James Loeb Professor of Classical Art and Archaeology  
Lyvia Morgan, Lecturer on History of Art and Architecture  
Gülru Necipoglu-Kafadar, Aga Khan Professor of Islamic Art  
Alina A. Payne, Professor of History of Art and Architecture  
Jennifer L. Roberts, Assistant Professor of History of Art and Architecture (*on leave 2005-06*)  
Betsey A. Robinson, Assistant Professor of the Classics and of History of Art and Architecture (*on leave 2005-06*)  
David J. Roxburgh, Professor of History of Art and Architecture (*Director of Undergraduate Studies, spring term*) (*on leave fall term*)  
Victor Stoichita, Zobel de Ayala Visiting Professor of History of Art and Architecture (*University of Fribourg*) (*fall term only*)  
Rabun Taylor, Associate Professor of History of Art and Architecture  
Hugo van der Velden, Professor of History of Art and Architecture (*Director of Graduate Studies*)



Eugene Wang, Abby Aldrich Rockefeller Professor of Asian Art (*on leave 2005-06*)

Irene J. Winter, William Dorr Boardman Professor of Fine Arts

Henri Zerner, Professor of History of Art and Architecture

### ***Museum Associates Offering Instruction in the Department***

Francesca G. Bewer, Lecturer on History of Art and Architecture (*Associate Curator for Research, Straus Center for Conservation, Harvard University Art Museums*)

Harry A. Cooper, Senior Lecturer on History of Art and Architecture (*Curator of Modern Art, Harvard University Art Museums*)

Deborah Martin Kao, Senior Lecturer on History of Art and Architecture (*Richard L. Menschel Curator of Photography, Harvard University Art Museums*)

Narayan Khandekar, Senior Lecturer on History of Art and Architecture (*Senior Conservation Scientist, Straus Center for Conservation, Harvard University Art Museums*)

Henry W. Lie, Lecturer on History of Art and Architecture (*Senior Conservator of Objects and Sculpture, Straus Center for Conservation, Harvard University Art Museums*)

Carol C. Mancusi-Ungaro, Senior Lecturer on History of Art and Architecture (*Director of the Center for the Technical Study of Modern Art in the Harvard University Art Museums*)

Robert D. Mowry, Senior Lecturer on History of Art and Architecture (*Alan J. Dworsky Curator of Chinese Art and Head of Asian Art, Harvard University Art Museums*)

Peter Nisbet, Senior Lecturer on History of Art and Architecture (*Daimler-Benz Curator of the Busch-Reisinger Museum*)

William W. Robinson, Senior Lecturer on History of Art and Architecture (*Ian Woodner Curator of Drawings in The Fogg Art Museum*)

Stephan S. Wolohojian, Lecturer on History of Art and Architecture (*Curator of Paintings, Sculpture, and Decorative Arts, Harvard University Art Museums*)

### ***Other Faculty Offering Instruction in the History of Art and Architecture***

Gloria Ferrari Pinney, Research Professor of Classical Archaeology and Art

Courses in the History of Art and Architecture undergraduate curriculum are structured as a three-tier system, consisting of a sequence of introductory courses, upper-level courses and departmental tutorials. Passage through the sequence from entry level to more advanced classes is encouraged—particularly for prospective concentrators.

History of Art and Architecture (HAA) 1a and 1b, HAA 10, HAA 11 are general, conceptual introductions to World Art from pre-history to 1500, and 1500 to the present, History of Later Western Art, and History of World Architecture, respectively, each of which would serve as a point of entry into the courses and concentration of History of Art and Architecture.

History of Art and Architecture 12–89 constitute field-specific introductions to the major subfields of art history and their associated methodologies. These introductory courses are intended both for students in the concentration and for non-concentrators with an interest in a particular subject within History of Art and Architecture.



History of Art and Architecture 100–199, upper-level courses, tend to focus upon a particular problem or set of materials within a subfield.

***Primarily for Undergraduates***

**[History of Art and Architecture 1a. Survey of World Art]**

Catalog Number: 7547 Enrollment: Limited to 280.

*Members of the Department*

*Half course (fall term). Hours to be arranged.*

Survey of world art, both Western and non-Western, from Prehistoric cave paintings to the development of the handscroll format in medieval China and Japan and the birth of perspectival space in the Italian Renaissance. Chronological, and underlining cross-cultural exchanges, the course will focus on recurrent themes and topics as they unfold throughout the ages, such as monumentality, naturalism versus abstraction, narrative, and iconoclasm.

*Note:* Expected to be given in 2006–07. Students are encouraged to enroll in both halves of this survey, preferably in sequential order.

**[History of Art and Architecture 1b. Survey of World Art]**

Catalog Number: 6862

*Thomas B. F. Cummins and members of the Department*

*Half course (spring term). Hours to be arranged.*

Survey of world art, both Western and non-Western, from 1492, which marked both the discovery of the New World and the end of Moorish Spain, to our present day and the pressure of globalization upon contemporary artists. Chronological, and underlining cross-cultural exchanges, the course will focus on recurrent themes and topics as they unfold throughout the ages, such as the subjectivity of the artist, or the role of the beholder.

*Note:* Expected to be given in 2006–07. Students are encouraged to complete HAA 1a prior to enrolling in HAA 1b.

**History of Art and Architecture 10. The Western Tradition: Art Since the Renaissance**

Catalog Number: 4988

*Henri Zerner*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

Concentrating on painting but with reference to other media, we examine art between the beginning of Modern Times around 1400 until the present. It is team taught and organized around specific topics each occupying one week. It is organized chronologically but does not attempt to be a comprehensive survey, but rather to highlight important issues, debates, innovations, specific works or artists.

**History of Art and Architecture 13k. Introduction to Roman Art and Architecture**

Catalog Number: 1426

*Rabun Taylor*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

At its height, the Roman Empire extended from Scotland to Syria, and from the North Sea to the Sahara. We examine the art and architecture produced in lands under Roman rule during a one





thousand year period, from Rome's beginnings as an Etruscan-influenced city in the 7th century BCE to the Christianizing of Rome in the 4th century CE.

### **History of Art and Architecture 17n. Modernism (pre, post, and anti-): 1848–1968**

Catalog Number: 2331

*Benjamin Buchloh*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

The course introduces the complex and contradictory history of modernism in the visual arts of Europe and the US, focusing on central figures (e.g. Manet, Picasso, Duchamp, Warhol) and movements (e.g. Cubism, Dada, Soviet Avant-garde), as much as on the key concepts of that history. Lectures will emphasize the methodological diversity developed within recent art history to theorize and historicize Modernism. Readings will comprise key texts by artists, historians and critics.

### **History of Art and Architecture 18k. Introduction to Japanese Art**

Catalog Number: 7525

*Yukio Lippit*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

A survey of the most visually and conceptually significant examples of art and architecture produced in the Japanese archipelago from the prehistoric era through the modern period. Broader historical questions addressed through careful readings of individual objects and buildings. Special emphasis placed on the characteristics of materials, genres, and formats most frequently employed in the Japanese context, as well as the relationship of Japanese artistic traditions to larger interregional trends.

### **History of Art and Architecture 19v. Art in Africa**

Catalog Number: 2236

*Babatunde Lawal (Virginia Commonwealth University)*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

An introduction to the visual and performing arts of Africa from prehistoric times to the present. Representative examples of rock art, painting, sculpture, architecture, pottery, textile, body adornment, and masking will be analyzed. Special emphasis will be placed on the interconnectedness of art and life in sub-Saharan Africa and the various ways in which visual representation has been shaped by environmental, cultural, and historical forces.

### **[History of Art and Architecture 19x. Introduction to African American Art History]**

Catalog Number: 2396

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*Half course (fall term). Hours to be arranged.*

Examines three hundred years of artistic production by peoples of African descent living in the US, from the beginning of the slave trade through the early Civil Rights movement of the 20th century. Primary focus is on the so-called fine arts of painting and sculpture. We also consider architecture, the material culture of slavery and daily life, vernacular art, dominant culture, and representations of Blacks.

*Note:* Expected to be given in 2006–07.





**[History of Art and Architecture 51p (formerly History of Art and Architecture 151z).  
Renaissance Architecture and the Rise of Classicism]**

Catalog Number: 6427

*Alina A. Payne*

*Half course (spring term). Hours to be arranged.*

Charts the survival, revival and dissemination of classicism in Renaissance Europe. Examines the development of the style, its relationship to shifts in social and political life, its mechanisms of transmission as well as phenomena of exchange, colonial export, and resistance to this pan-European trend.

*Note:* Expected to be given in 2006–07.

**[History of Art and Architecture 70. Introduction to Modern Art and Visual Culture, 1700–1990s]**

Catalog Number: 4593

*Ewa Lajer-Burcharth*

*Half course (fall term). Hours to be arranged.*

What is modernity, and what is the place of visual representation within modern culture? What conceptions of individuality, originality, and desire are at work in the idea of “the artist” in the modern period? Traversing different styles - rococo, Neo-classicism, Impressionism, Abstraction - we discuss a range of modern media, from painting, sculpture, prints, and photography to video, installation, and performance art.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 91r. Directed Study in History of Art and Architecture**

Catalog Number: 1028

*Jeffrey F. Hamburger, David J. Roxburgh, and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Limited to juniors and seniors. Students wishing to enroll must petition the Head Tutor for approval, stating the proposed project, and must have the permission of the proposed instructor.

**\*History of Art and Architecture 97r. Sophomore Tutorial**

Catalog Number: 0935

*Jeffrey F. Hamburger (fall term), David J. Roxburgh (spring term), and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of concentrators.

**\*History of Art and Architecture 98ar. Advanced Tutorial**

Catalog Number: 1328

*Jeffrey F. Hamburger (fall term), David J. Roxburgh (spring term), and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of concentrators.

**\*History of Art and Architecture 98br. Advanced Tutorial**

Catalog Number: 3507



*Jeffrey F. Hamburger (fall term), David J. Roxburgh (spring term), and members of the Department*  
*Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Spring: 6, 7, 17, 18*  
*Note: Required of concentrators.*

**\*History of Art and Architecture 99. Tutorial—Senior Year**

Catalog Number: 3118  
*Jeffrey F. Hamburger (fall term), David J. Roxburgh (spring term), and members of the Department*  
*Full course. Hours to be arranged.*  
*Note: Intended for honors candidates in History of Art and Architecture. Permission of the Head Tutor required.*

***For Undergraduates and Graduates***

**[History of Art and Architecture 101. The Materials of Art]**

Catalog Number: 5741 Enrollment: Limited to 12.  
*Henry W. Lie and members of the Department*  
*Half course (spring term). Hours to be arranged.*  
An introduction to the materials and techniques that have been used to produce art objects (paintings, sculpture, works on paper). An emphasis on the physical choices and constraints offered to the artist through the centuries. Problems of description, dating, authenticity, aging, and preservation are considered.  
*Note: Expected to be given in 2006–07.*  
*Prerequisite: History of Art and Architecture concentration or two previous art history courses.*

**\*History of Art and Architecture 124z. Architecture and Dynastic Legitimacy: The Early Modern Islamic Empires (1450-1650)**

Catalog Number: 4604 Enrollment: Limited to 12.  
*Gülru Necipoglu-Kafadar*  
*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*  
In the 16th century, three great regional empires partitioned the central zone of Islam from the Balkans to Bengal. The Mediterranean-based Ottomans, the Safavids in Iran, and the Mughals in India formed separate cultural domains with distinctive architectural and decorative idioms originating from a shared Timurid heritage. The building types each empire emphasized are studied as an index of differing imperial ideologies and theories of dynastic legitimacy.

**\*History of Art and Architecture 130. Topography and Monuments of Ancient Rome**

Catalog Number: 4494 Enrollment: Limited to 15.  
*Rabun Taylor*  
*Half course (fall term). F., 1–4. EXAM GROUP: 6, 7, 8*  
A general survey of the architecture and urban development of Rome from its beginning until late antiquity. By studying the city's monumental center, students gain an understanding of Rome's immense cultural legacy in general, and in specific a familiarity with the spatial and topographical vocabulary inherited by the modern urban West. Additionally, by examining the



remains of ancient Rome's infrastructure, they confront the city as an organic and historical entity.

### **History of Art and Architecture 132v. Aegean Painting and the Ancient World**

Catalog Number: 2220

*Lyvia Morgan*

*Half course (fall term). M., W., at 12. EXAM GROUP: 5*

Within the wider context of relations with Egypt and the Near East where recent discoveries have revealed an Aegean artistic presence, this course focuses on the wall paintings of the palaces and houses of the ancient Aegean cultures, Minoan, Cycladic, Mycenaean. A thematic approach will explore the natural world as an expression of the divine, festivals of the people, the ideology of bull-sports and hunting, initiation, and other rituals

### **[History of Art and Architecture 133. Greek Architecture and Urbanism]**

Catalog Number: 2412

*Betsey A. Robinson*

*Half course (fall term). Hours to be arranged.*

An examination of Greek architecture and site organization from the Early Iron Age through the Hellenistic Period. We study civic, sacred, and domestic architecture, the emergence of the polis, colonial foundations, and the evolution of urban planning, from sites in modern Greece and Turkey to southern Italy, northern Africa, and the Levant.

*Note:* Expected to be given in 2006–07.

### **\*History of Art and Architecture 137. Cross-Cultural Aesthetics: Proseminar**

Catalog Number: 0302 Enrollment: Limited to 15.

*Irene J. Winter*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

An inquiry into aesthetic theory as it was developed in Western Europe in the 18th and 19th centuries, and how that approach may be used to examine the art of non-European traditions. After a set of common readings and discussion, students will be asked to select a particular tradition for research, and examine the utility of such concepts as “beauty” cross-culturally. Class presentation and paper.

### **\*History of Art and Architecture 140h (formerly History of Art and Architecture 40).**

#### **Court and Cloister in the Later Middle Ages**

Catalog Number: 0734 Enrollment: Limited to 20.

*Jeffrey F. Hamburger*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Courtly culture and patronage, primarily in Paris, Prague, and Burgundy, with an emphasis on issues of artistic exchange, dynastic commemoration, princely piety, the development of secular genres, and the emergence of the court artist.

*Note:* Excursion to New York.

### **\*History of Art and Architecture 143m. The Art of the Court of Constantinople**

Catalog Number: 4412 Enrollment: Limited to 12.

*Ioli Kalavrezou*



*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Concentrates on art and architecture created for the court of Constantinople from the 9th to the 12th century. Focuses on objects and monuments, exploring their role in political, religious, and personal events.

**[History of Art and Architecture 144x. Topics in Early Christian Art]**

Catalog Number: 8919 Enrollment: Limited to 12.

*Ioli Kalavrezou*

*Half course (fall term). Hours to be arranged.*

The seminar will study selected themes relating to the creation and development of Christian imagery during the first six centuries.

*Note:* Expected to be given in 2006–07.

**History of Art and Architecture 152e. Fountains of Central Italy, c. 1270–1750**

Catalog Number: 2289

*Frank Fehrenbach*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

A history of the most prestigious public monuments in early modern Italy, between Fontana Maggiore (Perugia) and Trevi Fountain (Rome), including the development of garden fountains, art, urbanism, politics, images of nature.

**[History of Art and Architecture 155. Problems in Northern Renaissance Art]**

Catalog Number: 8827

*Hugo van der Velden*

*Half course (spring term). Hours to be arranged.*

Focusing on key monuments, this course is devoted to the visual arts of North-Western Europe, particularly the Low Countries, France and Germany, during the period 1350-1550. The main topics of the course are: the problem of paradigm and historical periodization, style, patronage, iconography, the use and function of art, self-representation, perspective and the depiction of pictorial space, contemporary awareness of a Northern artistic tradition, art theory, specialization, and the rise of genre.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 171w. Edgar Degas**

Catalog Number: 2203 Enrollment: Limited to 10.

*Stephan S. Wolohojian*

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

A seminar on the work of the French artist Edgar Degas, offered in conjunction with a major lecture series and exhibition of the artist's work at the Fogg, and with the participation of preeminent Degas scholars. The course will engage with recent critical debate on this enigmatic artist and his innovative techniques in painting, sculpture, drawings, prints, and photography. Participants will also make visits to study the important Degas holdings in other area collections.

**\*History of Art and Architecture 174m. Modern Architecture and its Histories**

Catalog Number: 2229 Enrollment: Limited to 12.

*Neil Levine*



*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

When and how did modern architecture begin? Who were its leaders? What were its original goals and achievements and how did they change over time? These are some of the questions to be investigated through close readings of the most influential accounts of the movement's history from the 1920s through the present. Texts studied will include ones by Hitchcock, Johnson, Giedion, Pevsner, Banham, Scully, Frampton, Tafuri, and Colquhoun.

**[History of Art and Architecture 174s. Body Image in French Visual Culture: 18th and 19th Century]**

Catalog Number: 9158

*Ewa Lajer-Burcharth*

*Half course (fall term). Hours to be arranged.*

Functions and meanings of the body as privileged visual signifier in French visual arts (painting, sculpture, printed imagery, photography). Body image seen as both instrument of different discourses of modernity and a site of resistance to them. Among the issues addressed: the king's body, republican corporeality; the problem of the nude, bodily spectacles; race; otherness; androgyny; monstrosity; pornography; representations of hysteria; images of desire; fetishism; body and/in space; body and the self.

*Note:* Expected to be given in 2006–07.

**[History of Art and Architecture 175w. Pop Art]**

Catalog Number: 2172 Enrollment: Limited to 12.

*Jennifer L. Roberts*

*Half course (fall term). Hours to be arranged.*

An investigation of key themes surrounding the emergence of Pop in the 1950s and 1960s, focusing on developments in the US but also considering international examples. Interprets the movement in terms of the formal challenges it posed to prevailing standards of painting, sculpture, and photography, as well as its multifaceted philosophical engagements with the broader postwar spectacle of information, consumption, and advertising.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 178e. Photography in the 19th Century**

Catalog Number: 3505 Enrollment: Limited to 15.

*Robin E. Kelsey*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Consideration of the origins of photography, the interplay of photography and text, the role of photography in archives, the relationship between photography and the fine arts, the emergence of modern pictorial modes, and other topics.

**\*History of Art and Architecture 182k. Japanese Woodblock Prints**

Catalog Number: 3374 Enrollment: Limited to 12.

*Yukio Lippit*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

A thorough introduction to the history of the Japanese woodblock print, based upon first-hand study of the Sackler and MFA collections. Technical and stylistic change will be studied within the context of the evolving conditions of the publishing industry, theater world, and urban



prostitution during Japan's Edo period (1600-1868). Developments in the modern era and various aspects of the Euro-American reception will also be considered.

**[History of Art and Architecture 185m. Sketch Conceptualism and Its Discontent in Chinese Art]**

Catalog Number: 9977 Enrollment: Limited to 12.

*Eugene Wang*

*Half course (fall term). Hours to be arranged.*

"Sketch conceptualism" is a traditional practice in Chinese art. It is premised upon the conviction that the use of abbreviated forms and cursory sketches is analogous to writing, which has the potential to capture lofty concepts better than verisimilitude. The ideal has both inspired distinctive works and justified travesties. It has also caused discontent among some artists. The course examines both sides to assess the success and failure of the repeated quests for conceptualism.

*Note:* Expected to be given in 2006–07.

**History of Art and Architecture 188v. Dynamics of Japanese Architecture**

Catalog Number: 2023

*William H. Coaldrake*

*Half course (spring term). M., W., at 10. EXAM GROUP: 3*

Japanese architecture is both diverse and dynamic. There will be case studies of the contrasting typologies of Shinto shrine and Buddhist temple, castle and tea-house, palace and farmhouse. These will be interpreted as a dynamic interaction of function, site, climate and materials, the traditions of master carpenters and the desires of patrons. Twentieth-century architecture will be investigated in terms of tradition and new technologies, international influences and changes to the architectural profession.

**[History of Art and Architecture 193. Painting Traditions in Africa]**

Catalog Number: 1131 Enrollment: Limited to 12.

*Suzanne P. Blier*

*Half course (fall term). Hours to be arranged.*

This pro-seminar examines painting traditions from pre-historic to contemporary works. Critical issues of artistic identity, content, and style discussed.

*Note:* Expected to be given in 2006–07.

**[History of Art and Architecture 196. Contemporary Art in Africa]**

Catalog Number: 8120 Enrollment: Limited to 12.

*Suzanne P. Blier*

*Half course (spring term). Hours to be arranged.*

Major art movements in 20th-century Africa as well as critical issues which have framed related discussions will be treated. Painting, sculpture, photography, graphic arts, architecture, and performance traditions will be explored with an eye toward both their unique African contexts and the relationship of these traditions to contemporary art movements in a more global perspective.

*Note:* Expected to be given in 2006–07.



**History of Art and Architecture 197. The Imperial Arts of the Inca and the Aztec**

Catalog Number: 9976

*Thomas B. F. Cummins*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

This course concentrates on the art and architecture of the two ancient American civilizations, surveying the forms of representation used to establish imperial presence within the accepted vernacular of Mesoamerican and Andean artistic traditions. Special attention is given to the role of art as a means of expressing imperial claims to mythic and historic precedents, upon which political and economic expansion could be realized.

***Primarily for Graduates***

**[History of Art and Architecture 201. The Study of Architectural History: Critical Issues and Methodologies]**

Catalog Number: 5302 Enrollment: Limited to 12.

*Neil Levine and K. Michael Hays (Design School)*

*Half course (spring term). Hours to be arranged.*

This course focuses on issues of method and ideology in the history, criticism, and theory of architecture through close readings of selected cases involving multiple and contradictory interpretations of a building, architect, or design approach. For all students interested in the practice of architectural history.

*Note:* Expected to be given in 2006–07. Open to qualified undergraduates.

**\*History of Art and Architecture 206. Science and the Practice of Art History**

Catalog Number: 6180 Enrollment: Limited to 12.

*Henry W. Lie and staff*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Lectures, discussions, and artwork examinations are designed to equip the historian with critical and informed approaches to the range, uses, ambiguities, and instruments currently employed in the scientific, diagnostic investigation of artworks.

**\*History of Art and Architecture 224m. Drawing in the Pre-Modern Islamic World**

Catalog Number: 8731 Enrollment: Limited to 12.

*David J. Roxburgh*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Focuses on drawings from Iran, India and Turkey, ca. 1300-1700. Topics include drawing as a design medium, its growth into an independent art, correspondences between drawing and writing, and artists Muhammadi and Riza Abbasi.

**\*History of Art and Architecture 226e. Cross-Cultural Artistic Exchanges: Islamic and European Courts**

Catalog Number: 4723 Enrollment: Limited to 12.

*Gülru Necipoglu-Kafadar*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

In conjunction with the Gardner Museum exhibition "Gentile Bellini and the East", the seminar





explores topics in artistic exchanges between Islamic and European courts, along with the emergence of early modern Orientalist imagery and illustrated travelogs.

**[\*History of Art and Architecture 232. Assyrian Reliefs and the Decorative Programs of Assyrian Palaces]**

Catalog Number: 5269 Enrollment: Limited to 12.

*Irene J. Winter*

*Half course (spring term). Hours to be arranged.*

Inquiry into the sculptural programs of Neo-Assyrian palaces, 9th through 7th c. BCE. Special attention will be given to historical context and to royal texts as a way to probe the meaning and visual impact of the reliefs.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 235p. Roman Painting**

Catalog Number: 0621 Enrollment: Limited to 12.

*Rabun Taylor*

*Half course (spring term). M., 2–5. EXAM GROUP: 7, 8, 9*

This course offers a thematic approach to Roman mural painting. Themes will include technique, styles, precedents, iconography, context, and contemporary problems in interpretation. Emphasis will be on Rome and the Pompeian region.

**\*History of Art and Architecture 236v. The Body in Ancient Art**

Catalog Number: 2221 Enrollment: Limited to 15.

*Lyvia Morgan and Irene J. Winter*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Seminar exploring the power of the body in ancient Egyptian, Near Eastern, Greek, and Roman art. Images are seen as mediators between human and spiritual realms, determinants of hierarchy, and arousers of passions.

**[History of Art and Architecture 240r. Byzantine Art]**

Catalog Number: 4109 Enrollment: Limited to 12.

*Ioli Kalavrezou*

*Half course (spring term). Hours to be arranged.*

Topic to be announced.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 241n. Image-Text-Context**

Catalog Number: 1084 Enrollment: Limited to 12.

*Jeffrey F. Hamburger*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Topics in text and image in medieval manuscript illumination, vernacular and Latin, as well as in other media, making intensive use of local collections (Houghton and Boston Public Library).

*Note:* Excursion to Europe, pending funding.

**[History of Art and Architecture 242. Issues of Interpretation in Medieval Art]**

Catalog Number: 7561 Enrollment: Limited to 12.



*Jeffrey F. Hamburger*

*Half course (fall term). Hours to be arranged.*

A wide-ranging introduction to current critical approaches to the study of medieval art, mixing historiography, methodology with a workshop in which students will help set the agenda for the course.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 245. Jan and Hubert van Eyck: The Ghent Altarpiece**

Catalog Number: 5639 Enrollment: Limited to 12.

*Hugo van der Velden*

*Half course (fall term). M., 3–6. EXAM GROUP: 8, 9*

Focuses on meaning and interpretation, with special attention to the Ghent altarpiece. Themes include function, ritual, context, court art, competition, and the appreciation of painting in comparison to other media.

**\*History of Art and Architecture 254n. Renaissance Tombs of Florence (from Donatello to Cellini)**

Catalog Number: 9062 Enrollment: Limited to 10.

*Frank Fehrenbach*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Interactions between funeral culture, ‘revivification’ of antiquity, and ‘individuality’ (of artists and deceased). Presence/absence of the body. Locations and relocations of tombs.

*Note:* Reading knowledge of Italian and German required. Excursion to Florence.

**[\*History of Art and Architecture 256m. Alberti’s Renaissance]**

Catalog Number: 3538 Enrollment: Limited to 12.

*Alina A. Payne and Frank Fehrenbach*

*Half course (spring term). Hours to be arranged.*

Explores Leon Battista Alberti’s multifaceted oeuvre with particular emphasis on the artistic and theoretical problems he posed before the artists of his time and subsequent generations.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 261r (formerly History of Art and Architecture 261v). The Saints and their Bodies in the Spanish Painting of the “Siglo de Oro”**

Catalog Number: 8817 Enrollment: Limited to 12.

*Thomas B. F. Cummins and Victor Stoichita*

*Half course (fall term). W., F., 3–5. EXAM GROUP: 8, 9*

This seminar will engage the visual/pictorial representation of the saint’s body. The approach will be analytical, concentrating on Spanish art during the period of the Counter-Reformation.

**History of Art and Architecture 270r. Topics in 19th-Century Art**

Catalog Number: 7958

*Henri Zerner*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

The topic this term will be graphic arts in the 19th century. Examines the relation of art to



industry. Studies techniques, particularly regarding reproduction and the relation of photography to other graphic media.

**[\*History of Art and Architecture 271m. Architecture, Display, and Mass Culture in 19th/20th c.]**

Catalog Number: 2560 Enrollment: Limited to 15.

*Alina A. Payne*

*Half course (fall term). Hours to be arranged.*

Examines the redefinition of architecture at the turn of the 19th/20th century in both practice and theory in the context of the museum/exhibition movement and the rise of historical (archaeology, art history) and man-based sciences (anthropology, ethnology, psychology).

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 271n. American Sculpture in the 1960s**

Catalog Number: 2333 Enrollment: Limited to 15.

*Benjamin Buchloh*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Graduate seminar on sculpture in the US in the 1960s from minimalism through the developments of the decade.

**\*History of Art and Architecture 273m. Modern Sculpture: Theory and Criticism**

Catalog Number: 2312 Enrollment: Limited to 12.

*Harry A. Cooper*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

In celebrating painting, modernism accords sculpture a secondary role. The seminar explores that prejudice and its roots, reading Winckelmann, Lessing, Herder, Baudelaire, Hildebrand, Einstein, Greenberg, Krauss, and others, and studying works in the Fogg collection.

**[History of Art and Architecture 275w. The Thing]**

Catalog Number: 8955 Enrollment: Limited to 12.

*Jennifer L. Roberts*

*Half course (spring term). Hours to be arranged.*

An investigation of “objecthood” and its role in art history, examining theoretical frameworks for interpreting everything from teapots to minimal objects. Interrogates the forms of exchange—economic, libidinal, aesthetic—that these objects invite (or refuse).

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 277s. Circa 1970**

Catalog Number: 2286 Enrollment: Limited to 12.

*Carrie Lambert-Beatty*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Investigation of US artistic production and discourse from the early 1970s, with emphasis on the rubric of the “politicization of the avant-garde” and the periodization of the 60s and 70s. Comparative looks at Europe and Latin America.



**\*History of Art and Architecture 279. Semiotics of the Image**

Catalog Number: 3644 Enrollment: Limited to 12.

*Robin E. Kelsey*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

A fresh consideration of the possibilities for semiotic analysis of works of art. Readings will include canonical texts in semiotics, examples of semiotic analysis within art historical scholarship, and promising new accounts of language.

**\*History of Art and Architecture 280v. Monumentality and Modernism in Japanese Architecture**

Catalog Number: 4480 Enrollment: Limited to 12.

*William H. Coaldrake*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Monumentality in Japan is found in both colossal castles and ephemeral tea-houses. The search for modernity is part of temples and twentieth-century buildings. Both concepts will be explored using historic and recent architecture.

**[History of Art and Architecture 282y. The Visual Culture of Relics in East Asia]**

Catalog Number: 2349 Enrollment: Limited to 12.

*Eugene Wang*

*Half course (fall term). Hours to be arranged.*

The course examines medieval monastic sites with relic enshrinements in China, Japan, and Korea; seeks to unpack conceptions of body and numinous space invested in the formal disposition of relics, reliquaries, and the related artifacts.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 288m. Transmissions: Art and Zen Buddhism**

Catalog Number: 1451 Enrollment: Limited to 12.

*Yukio Lippit*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

An examination of the role certain artifacts and representational practices have played historically in relation to Sino-Japanese Zen Buddhism's claim to represent a special nontextual ("mind to mind") transmission of the Buddha's wisdom.

**[History of Art and Architecture 290r. Problems in Latin American Art]**

Catalog Number: 7097 Enrollment: Limited to 10.

*Thomas B. F. Cummins*

*Half course (spring term). Hours to be arranged.*

Methods and theory of the study of Latin American Art.

*Note:* Expected to be given in 2006–07.

**\*History of Art and Architecture 291r. Topics in Pre-Columbian and Colonial Art**

Catalog Number: 2306 Enrollment: Limited to 12.

*Thomas B. F. Cummins*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Books and things in the colonial world.



**\*History of Art and Architecture 296v. Form and Meaning in African Art**

Catalog Number: 2251 Enrollment: Limited to 15.

*Babatunde Lawal (Virginia Commonwealth University)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

An exploration of selected themes in sub-Saharan African art, designed to acquaint the student with core ideas and different methods of relating iconographic elements to the cultural matrix that gives them form and meaning.

***Cross-listed Courses***

**[African and African American Studies 173. African Art and Colonialism: King Leopold's Congo]**

**[African and African American Studies 186. The Art of the Harlem Renaissance]**

**Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200-300 BCE**

**Classical Archaeology 142. Sardis: An Urban Center Between East and West**

**[Classical Archaeology 160. Athenian Vase Painting]**

**Classical Archaeology 192. Greek Art and History through Coins**

**[History 1443. Peter Paul Rubens (1577-1640), Scholar, Diplomat, Artist: Conference Course]**

**History 1463. Paris From the French Revolution Through the 19th Century: Conference Course**

**History 1610. Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America: Conference Course**

**Literature and Arts B-21. The Images of Alexander the Great**

**Literature and Arts B-24. Constructing Reality: Photography as Fact and Fiction**

**[Literature and Arts B-31. The Portrait]**

**Literature and Arts B-34. Frank Lloyd Wright and the Modern City and Suburb**

**Literature and Arts B-35. The Age of Sultan Suleyman the Magnificent: Art, Architecture, and Ceremonial at the Ottoman Court**

**Medieval Studies 211. The Archaeology and History of European Towns, 500–1000**

**Music 214r. Renaissance Music: Seminar**

**[Religion 2348ab. Archaeology and the World of the New Testament: Seminar]**

**Studies of Women, Gender, and Sexuality 1405. Sex and the City: Gender, Architecture, and Space: Seminar**

**Visual and Environmental Studies 105. Digital Culture, Space, and Society**

**Visual and Environmental Studies 106. Architecture, Science, and Technology: 18th Century to the Present**

**Visual and Environmental Studies 168. Theories and Practices of Contemporary Landscape Architecture: 1950 to the Present**

**Visual and Environmental Studies 174c. Film and Photography, Ontology and Art**

**Visual and Environmental Studies 179a. Origins of Modern Visual Culture**

**[Visual and Environmental Studies 180. The Moving Image: Film, Modernity, and Visual Representation]**

**Visual and Environmental Studies 181. Frames of Mind: Approaches to Film Theory**

**\*Visual and Environmental Studies 182. Film Architectures: Seminar**

**Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts**



**\*Visual and Environmental Studies 185x. Texture Analysis: Film, Fashion, and Material Culture: Seminar**  
**Visual and Environmental Studies 193. History of Video Art**

***Graduate Courses of Reading and Research***

**\*History of Art and Architecture 300. Reading and Research**

Catalog Number: 5716

*Suzanne P. Blier 3472 (on leave 2005-06), Benjamin Buchloh 5325, Joseph Connors 1080, Harry A. Cooper 1728, Thomas B. F. Cummins 3568, Frank Fehrenbach 5013 (fall term only), Jeffrey F. Hamburger 3800, Ioli Kalavrezou 2242 (on leave spring term), Deborah Martin Kao 3345, Robin E. Kelsey 4132, Ewa Lajer-Burcharth 3373 (on leave 2005-06), Carrie Lambert-Beatty 5283, Neil Levine 4178, Henry W. Lie 2575, Yukio Lippit 4713, Carol C. Mancusi-Ungaro 4406, David G. Mitten 1290, Robert D. Mowry 1958, Gülru Necipoglu-Kafadar 1688, Peter Nisbet 1738, Alina A. Payne 4605, Gloria Ferrari Pinney 1384, Jennifer L. Roberts 4407 (on leave 2005-06), Betsey A. Robinson 4361 (on leave 2005-06), William W. Robinson 2239, David J. Roxburgh 2138 (on leave fall term), Rabun Taylor 4253, Eugene Wang 3600 (on leave 2005-06), Irene J. Winter 1955, Stephan S. Wolohojian 2756, Henri Zerner 3792, and Hugo van der Velden 4767*

Individual work in preparation for the General Examination for the PhD degree or, by arrangement, on special topics not included in the announced course offerings.

**\*History of Art and Architecture 301. Museum Apprenticeship**

Catalog Number: 1912

*Ioli Kalavrezou 2242 (on leave spring term) and Henri Zerner 3792*  
*Members of the Fogg Museum Staff*

**\*History of Art and Architecture 309. Thesis Colloquium and/or Thesis Defense**

Catalog Number: 6568

*Hugo van der Velden 4767 and members of the Department*

*Note:* May not be counted toward course requirements for the PhD degree, but is required before the degree may be granted.

**\*History of Art and Architecture 310. Methods and Theory of Art History**

Catalog Number: 7879 Enrollment: Limited to 14.

*Hugo van der Velden 4767*

*Half course (fall term). W., 1–3.*

*Note:* Limited to incoming graduate students.

**\*History of Art and Architecture 399. Direction of Doctoral Dissertations**

Catalog Number: 6575

*Suzanne P. Blier 3472 (on leave 2005-06), Benjamin Buchloh 5325, Thomas B. F. Cummins 3568, Frank Fehrenbach 5013, Jeffrey F. Hamburger 3800, Ioli Kalavrezou 2242 (on leave spring term), Robin E. Kelsey 4132, Ewa Lajer-Burcharth 3373 (on leave 2005-06), Carrie Lambert-Beatty 5283, Neil Levine 4178, Yukio Lippit 4713, David G. Mitten 1290, Gülru Necipoglu-Kafadar 1688, Alina A. Payne 4605, Gloria Ferrari Pinney 1384, Jennifer L. Roberts*



4407 (on leave 2005-06), Betsey A. Robinson 4361 (on leave 2005-06), David J. Roxburgh 2138 (on leave fall term), Rabun Taylor 4253, Eugene Wang 3600 (on leave 2005-06), Irene J. Winter 1955, Henri Zerner 3792, and Hugo van der Velden 4767

Note: May not be counted toward course requirements for the PhD degree.

## History of Science

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of the History of Science*

Allan M. Brandt, Professor of the History of Science (FAS) and Amalie Moses Kass Professor of the History of Medicine (Medical School) (Chair)

Mario Biagioli, Professor of the History of Science (Director of Graduate Studies) (on leave spring term)

Conevery Bolton Valencius, Visiting Lecturer on the History of Science

Peter Buck, Senior Lecturer on the History of Science (Director of Undergraduate Studies)

Jimena Canales, Assistant Professor of the History of Science

Marwa S. Elshakry, Assistant Professor of the History of Science

Peter L. Galison, Harvard College Professor and Mallinckrodt Professor of the History of Science and of Physics (on leave 2005-06)

Evelynn M. Hammonds, Professor of the History of Science and of African and African American Studies

Anne Harrington, Harvard College Professor and Professor of the History of Science

Sarah Jansen, Assistant Professor of the History of Science

Stephanie H. Kenen, Lecturer on the History of Science

Everett I. Mendelsohn, Professor of the History of Science (on leave 2005-06)

John E. Murdoch, Professor of the History of Science

Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science and of Studies of Women, Gender, and Sexuality

Charles E. Rosenberg, Ernest E. Monrad Professor of the Social Sciences (on leave spring term)

Henning Schmidgen, Visiting Assistant Professor of the History of Science (Max Planck Institute, Berlin)

Steven Shapin, Franklin L. Ford Professor of the History of Science

#### *Other Faculty Offering Instruction in the Department of the History of Science*





Owen Gingerich, Professor of Astronomy and of the History of Science, Emeritus  
 Erwin N. Hiebert, Professor of the History of Science, Emeritus  
 Gerald Holton, Mallinckrodt Research Professor of Physics and Research Professor of the History of Science  
 Sheila S. Jasanoff, Pforzheimer Professor of Science and Technology Studies (*Kennedy School*) (*on leave fall term*)  
 Martha L. Minow, William Henry Bloomberg Professor of Law (*Law School*)  
 Robb Moss, Rudolf Arnheim Lecturer on Filmmaking  
 Sharrona H. Pearl, Lecturer on History and Literature  
 Antoine Picon, Professor of the History of Architecture and Technology (*Design School*)  
 Barbara Gutmann Rosenkrantz, Professor of the History of Science, Emeritus  
 A. I. Sabra, Professor of the History of Arabic Science, Emeritus

The Department of the History of Science oversees the undergraduate concentration in History and Science and provides the degree of AM and PhD to properly qualified graduate students. The Department also offers instruction in the history of science to students in other fields.

Distribution Fields (DF) for History of Science graduate students are designated after the course description.

### ***History of Science 90. Junior Seminars***

These half courses are limited to 10-12 participants, with preference given to History of Science concentrators in their junior years, since they are ordinarily required to take one of these. Undergraduate non-concentrators may enroll in junior seminars and tutorials on a space available basis. Each of these seminars focuses on enhancing reading and writing skills by delving deeply into a well-defined subject area of the faculty member's interest.

### **History of Science 90a. The Atom Bomb in History and Culture**

Catalog Number: 0124

*Everett I. Mendelsohn*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

The decision to make and use the A-bomb; responses from the US, Japan, UK, France, Russia, Germany; the bomb on film, poetry, science fiction, drama; politics of nuclear arms race—USSR, UK, France, China; cultural uses of the nuclear image.

### **[\*History of Science 90m. Medicine and Deviance]**

Catalog Number: 2795

*Charles E. Rosenberg*

*Half course (spring term). Hours to be arranged.*

Sociologists and historians have described what they call the medicalization of deviance: explaining certain behaviors as the consequences of disease rather than culpable choice. I refer to a variety of behaviors ranging from homosexuality to substance abuse, from chronic fatigue syndrome to premenstrual syndrome. This course will focus on the interrelated legal, medical, policy, and professional history of such problematic “diseases” during the past century and a



half.

*Note:* Expected to be given in 2006–07.

**[\*History of Science 90n. History of Science 90n. Science, Technology and Medicine in the Modern Middle East]**

Catalog Number: 7492

*Marwa S. Elshakry*

*Half course (spring term). Hours to be arranged.*

Examines the role of science, technology and medicine in the transformation of the modern Middle East. Will explore, among other topics: changing categories of knowledge and traditions of learning; science and Islam; the spread of the printing press and rail; public health and traditional medicines; the political ecology of oil and water.

*Note:* Expected to be given in 2006–07.

**\*History of Science 90p. Dying of Poverty?: Historical Perspectives on the Relationship Between Poverty and Health**

Catalog Number: 3701

*Sharrona H. Pearl*

*Half course (spring term). Hours to be arranged.*

What did poverty mean in the 19th century, and how did this concept change with respect to urbanization and industrialization? This course will examine Victorian poverty, focusing in particular on medicine and changing notions of the body in the context of urban slums. We will draw on works of literature, newspaper articles, works of art, and traditional historical sources to examine the rise of systems of public health in the 19th century.

*Note:* In addition to critical essays, students will be asked to produce creative works that comment on the materials studied in class.

**\*History of Science 90s. The Scientific Revolution**

Catalog Number: 4946

*Mario Biagioli*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Examines 16th- and 17th-century transformations in astronomy (in works of Copernicus, Kepler, Galileo, Newton), medicine (Vesalius, Harvey), cosmography (Mercator, Ortelius, Varenius), and natural philosophy (Bacon, Descartes, Newton), as well as in scientific practices (observation, experiment, mathematization) and modes of organization and communication (academies, journals, graphical representations). Placing these developments in their cultural contexts (religious, political, commercial) affords a critical perspective on received historiographical assumptions regarding Scientific Revolution as dramatic episode in origin of modern science.

**[\*History of Science 90t. Technology in America]**

Catalog Number: 1617

*Peter Buck*

*Half course (fall term). Hours to be arranged.*

Examines American society, politics, and culture as shaping and shaped by the technologies of



war, work, transportation, and health. Emphasis on the 19th and 20th centuries.

*Note:* Expected to be given in 2006–07.

***Primarily for Undergraduates***

**\*History of Science 91r. Supervised Reading and Research**

Catalog Number: 1238

*Peter Buck and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Programs of directed reading and research to be conducted by a person approved by the Department.

**History of Science 96. Academic Internship in History and Health Policy**

Catalog Number: 5204

*Peter Buck and members of the Department*

*Half course (spring term). Hours to be arranged.*

Academic internships offer opportunities for using the methods and ideas of the history of health and medicine to understand the practical problems that have framed health policy in 20th-century America, and vice-versa. Emphasis is placed on the ways in which transformations in the epistemological and structural foundations of medical care have interacted with the broader public policy environment. Topics for 2005-06 include the effects of the market upon standards of care, the rise of the clinical trial and Evidence-Based Medicine, and options for health-care reform.

*Note:* Students are expected to produce substantial research papers based on their classwork and field placements, which are typically arranged with institutions in the Boston area.

**\*History of Science 97a. Tutorial — Sophomore Year**

Catalog Number: 4719

*Steven Shapin and Peter Buck*

*Half course (fall term). M., 4-5:30, and a weekly section to be arranged.*

The first term of sophomore tutorial introduces students to major events and works in the history of science. Organized into small tutorial sections to supplement faculty lectures to the entire class.

*Note:* Required for undergraduate concentration in History and Science.

**\*History of Science 97b. Tutorial — Sophomore Year**

Catalog Number: 5235

*Jimena Canales*

*Half course (spring term). M., 4-5:30, and a weekly section to be arranged.*

The second term of sophomore tutorial focuses on how research, reading, and writing are done in the history of science, with attention to exemplary secondary works and to relevant archival materials.

*Note:* Required for undergraduate concentration in History and Science.

**\*History of Science 98r. Tutorial — Junior Year**

Catalog Number: 1120



*Peter Buck and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

This half of the junior year is a research-oriented tutorial taken in small groups. Focuses on enhancing research and writing skills through the completion a directed research paper on subject matter of the student's interest.

*Note:* Ordinarily taken by juniors during the term when a History of Science 90 is not taken.

### **\*History of Science 99. Tutorial — Senior Year**

Catalog Number: 6619

*Peter Buck and members of the Department*

*Full course. Hours to be arranged.*

Faculty-led seminar and intensive work with an individual advisor, directed towards production of the senior honors thesis.

*Note:* Ordinarily taken by seniors as a full course. May be taken as a half course only if special permission is obtained. Students are expected to complete a thesis or submit a research paper or other approved project in order to receive course credit.

### ***For Undergraduates and Graduates***

### **History of Science 106. History of Ancient Science**

Catalog Number: 3958

*John E. Murdoch*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

An examination of key aspects and issues in the development of ancient science, focusing on natural philosophy from the Presocratics to Aristotle as well as its relation to early Greek medicine and mathematics. Some consideration will also be given to the historiography of natural philosophy within this period. (DF:E1)

### **[History of Science 107. History of Medieval Science]**

Catalog Number: 5071

*John E. Murdoch*

*Half course (fall term). Hours to be arranged.*

A study of the scope and nature of scientific thought in the Latin Middle Ages, with emphasis upon the relation of that thought to other aspects of medieval culture, in particular, religion, philosophy, and the universities. (DF:E2)

*Note:* Expected to be given in 2006–07.

### **History of Science 112. Medicine and Society in Medieval and Renaissance Europe**

Catalog Number: 8576

*Katharine Park*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

A survey of medical theory, organization and practice in the context of other forms of contemporary healing, notably religious and magical. Topics include changing conceptions of health and illness, the evolution of medical explanation, the gendering of healing and the body, the professionalization of medicine, the rise of hospitals and related institutions, and responses to “new” diseases such as syphilis and plague. (DF: E2,E3)

**[History of Science 120. History and Philosophy of Modern Physics]**

Catalog Number: 5116

*Peter L. Galison**Half course (spring term). Hours to be arranged.*

Philosophical questions raised by historical developments in 20th-century physics, and conversely, historical-scientific questions raised by philosophical inquiry. Late 19th-century reductionist world views leading to special and general relativity. Einstein's response. Issues in quantum theory and quantum mechanics surrounding causality, determinism, realism, and probabilism. Nuclear fission, and the atomic and thermonuclear weapons. Growth of large-scale experimental high-energy physics. What is meant by "unified" field theories in contemporary physics? Readings: scientific, historical, and philosophical texts. (DF:M3)

*Note:* Expected to be given in 2006–07. Cannot be taken for credit by students who have already taken Physics 120.

**[History of Science 123. The "Classical" Universe]**

Catalog Number: 6517

*Jimena Canales**Half course (fall term). Hours to be arranged.*

Challenges the concept of the "classical" physical sciences by drawing on current research from science and technology studies and the philosophy of science. Topics include astronomy, cosmology, metrology, physics. Particular emphasis is placed on the role of visualization and imaging techniques, standards of evidence, industrialization, labor, standardization, imperialism, evolutionary theory, and gender. Debates about determinism, free-will, and the nature of time and space are covered. Focus is on the long nineteenth-century. (DF:M1, M3)

*Note:* Expected to be given in 2006–07.

**History of Science 125. Cultures of Experiment**

Catalog Number: 4656

*Henning Schmidgen (Max Planck Institute, Berlin)**Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course will study the modern history of experiments in science and culture. Topics will include the emergence and development of experimentation in chemistry, physics, and biology as well as in literature, painting, and photography. Special attention will be paid to its changing material culture, its instruments and architecture. The main focus will be on the 19th and early 20th centuries. Current debates on the "new experimentalism" will be covered.

**[History of Science 130. History of Modern Biology]**

Catalog Number: 0179

*Everett I. Mendelsohn**Half course (fall term). Hours to be arranged.*

The history of biology 1750 to the present—natural history, experimental biology, molecular biology. Topics include function of cells and organisms; species and classification; evolution and the unification of the life sciences; populations, heredity, genetics and eugenics; relationships: field and laboratory, biology, chemistry and physics, machines and molecules, biology and society; the challenges of cloning, genetic engineering, and biotechnology. (DF:M2)

*Note:* Expected to be given in 2006–07.



**History of Science 132. Environmental History**

Catalog Number: 8673

*Sarah Jansen*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Environmental sciences, politics, and policies in a global context. Topics to be covered: Pristine nature; built environments; managed forests, agriculture, biodiversity, population and environment in postcolonial contexts; the seas, GM organisms, global warming, environmental risk assessment, narratives of nature. Course materials include films, novels, and policy papers, as well as scientific and other academic papers.

**History of Science 135. Race and Population**

Catalog Number: 8079

*Sarah Jansen*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

An introduction to concepts of race and population as used to study and control people, animals, and plants. Materials and examples drawn from the history of the biological and social sciences from the late 18th Century to the present Human Genome Project. (DF:M1, M2)

**[History of Science 138. Conservation, Ecology, and Environment: Conference Course]**

Catalog Number: 2390

*Everett I. Mendelsohn*

*Half course (fall term). Hours to be arranged.*

An examination of the science and politics of conservation, ecology, and environment, and their cultural location, using some comparative materials from Europe, Russia, and Africa. Particular attention to public organizations, government policy, and scientific knowledge and practice. (DF:M2)

*Note:* Expected to be given in 2006–07.

**[\*History of Science 140. Sickness and Healing in America]**

Catalog Number: 4471

*Charles E. Rosenberg*

*Half course (spring term). Hours to be arranged.*

Focuses on disease as well as efforts to understand, prevent, and heal it. We discuss the changing incidence of morbidity and mortality as well as the social and ecological factors that relate to these vital realities of sickness and death. Therapeutic practice and efficacy provides another theme: how were the sick treated? Where were they treated? By whom? (DF:M2)

*Note:* Expected to be given in 2006–07.

**History of Science 142. Historical Problems in Modern Medicine**

Catalog Number: 5886

*Conevery Bolton Valencius*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Explores a series of contemporary problems in health and medicine in the Boston area, with the goal of understanding them better by examining their historical roots. Course assignments will focus on real-world applications: evaluating web sites, comparing newspaper coverage, proposing solutions to elected officials. Topics may include: Boston University's proposed



Biosafety Level 4 research lab; racial disparities in health in Boston; proposals to provide health insurance for all Massachusetts residents; RN shortages at local hospitals.

**[History of Science 149. Medical Technologies in Historical Perspective: Conference Course]**

Catalog Number: 2028

*Evelynn M. Hammonds*

*Half course (fall term). Hours to be arranged.*

The course examines the ways in which various medical technologies, shaped and were shaped by, physician and nurse practices and goals as well as ideas about patient care in American medicine from the 19th-century to the present. We will look at how the meanings attached to medical technologies grew out of specific historical, social, political and medical contexts. Medical technologies examined include: imaging machines; clinical, diagnostic and genetic tests; reproductive technologies; and artificial organs. (DF:M2)

*Note:* Expected to be given in 2006–07.

**[History of Science 150. Science and National Socialism]**

Catalog Number: 4168

*Sarah Jansen*

*Half course (spring term). Hours to be arranged.*

What was the relationship between science and Nazi politics in Germany before, during, and after 1933-1945? Using texts and films, we will investigate those sciences and scientists who were actively involved in the holocaust, as well as those that contributed in less visible ways. We will examine a specific historical event and its implications, the relationship between the sciences and the state in democracies and totalitarian regimes, and conceptualizations of individual responsibility of scientists. (DF:M2)

*Note:* Expected to be given in 2006–07.

**History of Science 151. Science and Empire**

Catalog Number: 3516

*Marwa S. Elshakry*

*Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3*

This course examines science and technologies of rule as factors in the expansion of overseas European empires from the 18th to 20th centuries. It explores how colonial administrators deployed a range of scientific concepts and practices from tropical medicine and racial anthropology to urban planning and fingerprinting, and asks what both colonized and colonizers made of these. (DF:M1)

**[History of Science 152. Filming Science]**

Catalog Number: 1658

*Peter L. Galison and Robb Moss*

*Half course (spring term). Hours to be arranged.*

Examination of the theory and practice of capturing scientific practice on film. Topics will include fictional, documentary, informational, and instructional films and raise problems emerging from film theory, visual anthropology and science studies. Each student will make and





edit short film(s) about laboratory, field, or theoretical scientific work (DF:M1,M2)

*Note:* Expected to be given in 2007–08.

**History of Science 157 (formerly History of Science 157v). Sociological Topics in the History of Science**

Catalog Number: 2434

*Steven Shapin*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

An introduction to a series of sociological topics concerning the scientific role, the scientific community, and scientific knowledge that are of special interest to historians. What are the social conditions for the institutionalization of science and for the support of the scientific role? What are the possibilities for a historical sociology of scientific knowledge? What social pressures have historically been exerted on our overall understanding of science and its relations with society?

**History of Science 158. Darwin's Legacies**

Catalog Number: 4549

*Marwa S. Elshakry*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the impact of Darwin's ideas across languages, cultures and disciplines from the mid-19th century until WWII. Covering a range of examples from the US, Europe, the Ottoman Empire, Japan, and Russia, we will explore topics including: social Darwinism; eugenics and scientific racism; materialism and socialism; religion and rationality; war and the competition between nations.

**[History of Science 159. Probability in Science and Society]**

Catalog Number: 0807

*Sarah Jansen*

*Half course (spring term). Hours to be arranged.*

Explores the history of probability, one of the key concepts of modern science, from the Enlightenment to the present. Topics include reconceptualizations of the individual and the social as well as changing notions of truth and objectivity associated with the rise of probability thinking and practices. Examples from astronomy, anthropometry, eugenics, demography, taxonomy, criminology, ecology, genetics, epidemiology, modern physics, environmental and medical risk assessment, actuarial theory, and the detection of scientific frauds. (DF:M2)

*Note:* Expected to be given in 2006–07.

**[History of Science 160. Intellectual Property in Science]**

Catalog Number: 8570

*Mario Biagioli*

*Half course (spring term). Hours to be arranged.*

We examine different forms of credit for scientific and technological innovation, comparing publication credit in science and use of patents to protect technoscientific work. Readings range from history of technoscience to legal and literary studies. (DF:M1)

*Note:* Expected to be given in 2006–07.



**[History of Science 171. Narrative and Neurology]**

Catalog Number: 3222 Enrollment: Limited to 20.

Anne Harrington

*Half course (fall term). Hours to be arranged.*

What does it “feel” like to live inside a brain that has been damaged? What role has knowledge of such experience played, or failed to play, in the development of brain science over the past two hundred years? We probe these questions by juxtaposing narratives “about” brain damage with the science “of” brain damage. Readings range from the case histories that launched neurology in the mid-19th century to the essays of Oliver Sacks. (DF:M2)

*Note:* Expected to be given in 2006–07.

**History of Science 175. Madness and Medicine: Themes in the History of Psychiatry**

Catalog Number: 6245

Anne Harrington

*Half course (spring term). Tu., Th., at 10 and a weekly section to be arranged. EXAM GROUP: 12*

An attempt to integrate the history of medical thought on the nature of madness and the madman with recent historiography on the social history of psychiatry and its institutions. Topics include the birth of the asylum, the challenge of “moral therapy,” madness and the brain, madness from the patient’s point of view, the “discovery of the unconscious,” schizophrenia, and the antipsychiatry movement. (DF:M2)

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

**History of Science 176. Evolution and Human Nature: Conference Course**

Catalog Number: 6736 Enrollment: Limited to 15.

Anne Harrington

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Explores the historical attempt to reconcile our understanding of the human mind—and our fundamental experience of our humanness—with evolutionary understandings of human origins since Darwin. Organized topically around classic and exemplary debates on the nature and purpose of consciousness, free will, morality, aggression, religion and more. Readings include Darwin, Wallace, Huxley, Spencer, James, Freud, Lorenz, Chardin, and Wilson. Particular attention to social and ethical context and perceived implications of these debates. (DF:M2)

*Note:* Preference given to juniors and seniors.

**[History of Science 177. Stories Under the Skin: The Mind-Body Connection in Modern Medicine]**

Catalog Number: 4338

Anne Harrington

*Half course (fall term). Hours to be arranged.*

An analysis of the making of modern mind-body medicine as a system of interacting (and partly conflicting) narratives. Why do we believe that certain illnesses have roots in childhood traumas? That the stress of modern life can kill? That positive attitude can heal? That the “East” possesses secrets of mind-body balance that the West has lost? Analytic emphasis on the relationship between scientific research, clinical practice, popular culture, and experiences of illness and



recovery. (DF:M2)

*Note:* Expected to be given in 2006–07.

**[History of Science 182. Science, Modernity, and Discontent]**

Catalog Number: 4322

*Jimena Canales*

*Half course (spring term). Hours to be arranged.*

Examines modern technologies and studies their relation to science and culture. Beginning with an analysis of theories of modernity vis a vis postmodernity, we cover the impact of technologies ranging from the steam engine to the cinematographic camera. Particular emphasis is placed on the effects of these technologies on changing modes of subjectivity and their effects on literature, art, history, psychology, medicine, and the physical sciences. (DF:M1, M3)

*Note:* Expected to be given in 2006–07.

**\*History of Science 183. Social and Political Implications of Technology: Conference Course**

Catalog Number: 8588 Enrollment: Limited to 15.

*Peter Buck*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Historical studies of how technology shapes society and politics. Interactions between social engineering and the management of technological change; specific technologies vs. expectations about technology in general as limiting the possibilities for social and political change. Examples drawn from war, transportation, communication, and production. (DF:M1)

**History of Science 185. Machines in the History of Technology: From Heavymetal to Software**

Catalog Number: 5709

*Henning Schmidgen (Max Planck Institute, Berlin)*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course investigates the modern history of machines: clocks, steam engines, computers, and cyborgs. We will study visual, textual, and mathematical representations of these devices. At the same time, we will analyze the philosophical, scientific, and literary echoes they provoked, especially in the 19th and 20th centuries. Special emphasis will be placed on the changing borders between subject/object, productivity/power, and life/death. The crucial role of man-machine-interactions in current science and technology studies will be highlighted.

***Cross-listed Courses***

**Classics 192. “From Alexandria to Baghdad”: Classical Sciences in Islamic Lands**

**East Asian Studies 170. Medicine and the Body in East Asia and in Europe**

**Environmental Science and Public Policy 78. Environmental Politics**

**Historical Study A-27. Reason and Faith in the West**

**[Historical Study A-34. Medicine and Society in America]**

**Historical Study B-24. Utopia in the Age of the Scientific Revolution**

**Historical Study B-53. World War and Society in the 20th Century: World War I**

**[Science A-41. The Einstein Revolution]**



**Sociology 160. Medicine, Health Policy and Bioethics in Comparative and Global Perspective: Conference Course**

**Sociology 190. Life and Death in the US: Medicine and Disease in Social Context**

**Studies of Women, Gender, and Sexuality 1132. Making Sex, Bodies, and Seeds:**

**Technologies of Reproduction in Bioscience, Medicine, and the Media**

**[Studies of Women, Gender, and Sexuality 1201. Bodies and Boundaries: Conference Course]**

*Primarily for Graduates*

**\*History of Science 200. Methods of Research in the History of Science: Seminar**

Catalog Number: 5277

*Everett I. Mendelsohn*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Introduction to tools and resources libraries, archives and collections useful for the History of Science. Analysis of past and current practices in research and writing and critical commentary on the variety of styles used by historians of science.

**\*History of Science 206r. Ancient Science: Seminar**

Catalog Number: 2410

*John E. Murdoch*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Topic for 2005–06: Aristotle's discussion of the infinite and infinite divisibility in the *Physics* and his other works together with an examination of the relation of his views on these topics to earlier and later philosophy and mathematics.

**\*History of Science 207r. Medieval Science: Seminar**

Catalog Number: 8468

*John E. Murdoch*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Topic for 2005–06: Aristotle's *Categories* and *On Interpretation* and consideration of their reception, development, and understanding in the Middle Ages. (DF:E2)

*Note:* Reading knowledge of Latin is not required.

**History of Science 214. Early Modern Science: Proseminar**

Catalog Number: 5732

*Mario Biagioli*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Provides a survey of the most relevant literature on the history of early modern science from 1500 to 1750 across various disciplines as well as national and institutional contexts. Tailored primarily for those preparing an early modern field for their comprehensive exams, this course is also suited for students interested in developing a comprehensive picture of the scientific revolution.

**History of Science 215. Science and Culture in Late Medieval and Early Modern Europe: Seminar**



Catalog Number: 4568

*Katharine Park*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Topic for 2005-06: *Sources for the Study of Medieval and Renaissance Medicine*. Preparation for research through intensive reading of printed Latin sources. Genres to reflect participants' interests and may include commentaries, treatises, consilia, and charms. (DF:E2)

*Prerequisite:* Basic reading knowledge of Latin required. History of Science 112 or other background in Medieval or Renaissance European history recommended.

### **History of Science 220. Time Relations**

Catalog Number: 5208

*Henning Schmidgen (Max Planck Institute, Berlin)*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

The course explores changing relations between time, life, and knowledge in the 19th and early 20th centuries. Special attention will be paid to epistemic interactions of organisms and machines.

### **[\*History of Science 222r. Research in the History and Philosophy of Physical Sciences]**

Catalog Number: 4178

*Peter L. Galison*

*Half course (fall term). Hours to be arranged.*

Students advance their chosen research with the aim of producing a publishable paper. Open to students working in 19th- to 21st-century sciences and technologies, or boundary work within science, art, and architecture. (DF:M3)

*Note:* Expected to be given in 2006–07.

### **History of Science 230. 'Science Inc.': Governing and Funding Knowledge in the Modern Age**

Catalog Number: 1541

*Sarah Jansen*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

States, the private sector, and international organisations, as patrons of science and shapers of knowledge. Cases include biotechnologies such as stem cell research and genomics, science policies in international comparison.

### **[History of Science 240. The Body in Health and Disease: Seminar]**

Catalog Number: 6821

*Charles E. Rosenberg*

*Half course (fall term). Hours to be arranged.*

“Sickness” and “health,” notions of inappropriate and appropriate behavior, are determined by conceptions of the body and its proper management. Discussion will focus first upon secondary studies and subsequently upon students' research. (DF:M2)

*Note:* Expected to be given in 2006–07.

### **[History of Science 242. Caring and Curing]**

Catalog Number: 6304



*Charles E. Rosenberg*

*Half course (fall term). Hours to be arranged.*

A research seminar organized around perceptions and practices relating to the body and its management in health and disease. The first portion of the class will focus on discussions of representative texts, underlining historiographical and substantive issues in the history of medicine, while the second will focus on student progress reports and drafts. (DF:M2)

*Note:* Expected to be given in 2007–08.

### **History of Science 243. The Making of Modern Medicine**

Catalog Number: 5572

*Charles E. Rosenberg*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Focus on key works in the history of medicine, illustrating historiographical trends in the past half-century as well as the substantive aspects of the field that have attracted the historical concern.

### **\*History of Science 244. Research in the History of Medical Ethics: Seminar**

Catalog Number: 6301

*Allan M. Brandt*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Course provides a framework for the historical examination of debates concerning medical ethics, and seeks to identify social, cultural, political, and economic forces that have shaped value conflicts in clinical medicine and health policy. Students are expected to write a research paper utilizing primary and archival source materials. (DF:M2)

### **History of Science 251. Science in Translation**

Catalog Number: 4873

*Marwa S. Elshakry*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Examines ways in which scientific knowledge is transformed by its translation, appropriation, and interpretation within different socio-cultural and epistemological settings, utilizing theoretical insights from linguistics, sociology, and anthropology and drawing on a number of case studies.

### **History of Science 255. Sociology of Scientific Knowledge**

Catalog Number: 8911

*Steven Shapin*

*Half course (spring term). Hours to be arranged.*

A survey of major themes and achievements in the sociological study of scientific knowledge and practice, giving particular attention to the historical and cultural contexts in which this work developed and its usefulness in writing the history of science. (DF:M1)

### **[History of Science 258. What is a Disease? History and Ethnography]**

Catalog Number: 0817

*Charles E. Rosenberg*

*Half course (spring term). Hours to be arranged.*



Graduate seminar concerned with anthropological, historical, and other critical social science accounts of medical classification and disease diagnosis. Contrasts global medical science with indigenous ethnomedical systems and popular lay interpretations based on cultural, religious, and moral categories. (DF:M2)

*Note:* Expected to be given in 2006–07.

**[History of Science 259. Theories of Race and/in Science: Seminar]**

Catalog Number: 9690

*Evelynn M. Hammonds*

*Half course (spring term). Hours to be arranged.*

Examines theoretical basis of concepts of race developed by and in modern biology, medicine, epidemiology, anthropology. Compares these scientific theories to historical, sociological, legal, literary, and philosophical analyses of race from 18th century to present. (DF:M1, M2)

*Note:* Expected to be given in 2006–07. A significant research paper is required.

**[History of Science 263. Science and/as Literature: Seminar]**

Catalog Number: 2704

*Mario Biagioli*

*Half course (spring term). Hours to be arranged.*

Considers relationships between science and literature: literary structure of scientific arguments; history of scientific genres; science fiction and representations of science in popular literature; and the relationship between literary plots and scientific arguments. (DF:M1)

*Note:* Expected to be given in 2006–07.

**History of Science 273. Freud and the American Academy**

Catalog Number: 5828 Enrollment: Limited to 15.

*Anne Harrington*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Freud himself and Freud as used, adapted, and denounced in the academy. Freud himself on hysteria, dreams, the unconscious, sex, religion, and aggression. Appropriations and polemics within psychiatry, philosophy, literary criticism, psychohistory, feminism, brain science. (DF:M2)

*Note:* Intended to function as a graduate seminar, but advanced undergraduates with appropriate background in psychology or history of science (e.g., HS 175) will be considered.

**History of Science 281. Flat Science: Picturing Knowledge through Print, Photography, and Cinematography**

Catalog Number: 2387

*Mario Biagioli and Jimena Canales*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

We examine imaging techniques from the Scientific Revolution to the twentieth century. It focuses on interactions between art history (Benjamin, Krauss), philosophy (Bergson, Foucault, Deleuze), and science studies. By observing the development of mechanical, photographic and cinematographic representation of visual evidence in astronomy, physiology, and criminology, we analyze the epistemological status of pictures. (DF:M3)





**[\*History of Science 290r. Selected Topics in History and Philosophy of Biology]**

Catalog Number: 8108

*Everett I. Mendelsohn*

*Half course (spring term). Hours to be arranged.*

Challenges of writing the history of biology of the present—genomes, genetic engineering, eugenics, cloning. (DF:M2)

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Ordinarily one half course at the advanced level in history or philosophy of biology.

**[\*History of Science 295r. Critical History]**

Catalog Number: 8360 Enrollment: Limited to 15.

*Peter L. Galison*

*Half course (fall term). Hours to be arranged.*

Topic to be announced. (DF:M3)

*Note:* Expected to be given in 2006–07.

**History of Science 297r. Topics in the History of Medieval Latin Science**

Catalog Number: 5050

*John E. Murdoch*

*Half course (spring term). Hours to be arranged. First meeting: Th., Feb 2, 4–4:30 pm, Science Center 359.*

Topic to be announced.

*Prerequisite:* Reading knowledge of Latin.

**\*History of Science 298r. The Establishment of Medieval Latin Scientific and Philosophical Texts: Seminar**

Catalog Number: 4893

*John E. Murdoch*

*Half course (spring term). Hours to be arranged. First meeting: Th., Feb 2, 4:30-5 pm, Science Center 359.*

(DF:E2)

*Prerequisite:* Knowledge of Latin, but no previous experience with palaeography required.

***Cross-listed Courses***

**Classical Philology 296. Greek Medical Literature**

**East Asian Studies 230. The History of East Asian Medicine: Seminar**

***Graduate Courses of Reading and Research***

For Science Technology and Public Policy Seminar S482, see the Kennedy School of Government catalog.

**\*History of Science 300. Direction of Doctoral Dissertations**

Catalog Number: 3388

*Mario Biagioli 1756 (on leave spring term), Allan M. Brandt 3031, Jimena Canales 5070,*



*Marwa S. Elshakry 4884, Peter L. Galison 3239 (on leave 2005-06), Owen Gingerich 1159 (spring term only), Evelyn M. Hammonds 4545 (fall term only), Anne Harrington 1895, Sarah Jansen 4107, Everett I. Mendelsohn 2700 (on leave 2005-06), John E. Murdoch 1877, Katharine Park 2974, Charles E. Rosenberg 3784 (on leave spring term), and Steven Shapin 3984 (fall term only)*

*Note: Under special circumstances arrangements may be made for other instruction in guidance for doctoral theses.*

### **\*History of Science 301. Reading and Research**

Catalog Number: 5641

*Mario Biagioli 1756 (on leave spring term), Allan M. Brandt 3031, Peter Buck 1894, Jimena Canales 5070, Marwa S. Elshakry 4884, Peter L. Galison 3239 (on leave 2005-06), Owen Gingerich 1159, Evelyn M. Hammonds 4545, Anne Harrington 1895, Erwin N. Hiebert 1187, Gerald Holton 1883, Sarah Jansen 4107, Sheila S. Jasanoff (Kennedy School) 2248 (on leave fall term), Everett I. Mendelsohn 2700 (on leave 2005-06), John E. Murdoch 1877, Katharine Park 2974, Antoine Picon (Design School) 4295, Charles E. Rosenberg 3784 (on leave spring term), Barbara Gutmann Rosenkrantz 3651, A. I. Sabra 2702, and Steven Shapin 3984*

Individual work in preparation for the General Examination for the PhD degree.

### **\*History of Science 302. Guided Research**

Catalog Number: 5282

*Mario Biagioli 1756 (on leave spring term), Allan M. Brandt 3031, Peter Buck 1894, Jimena Canales 5070, Marwa S. Elshakry 4884, Peter L. Galison 3239 (on leave 2005-06), Owen Gingerich 1159, Evelyn M. Hammonds 4545, Anne Harrington 1895, Erwin N. Hiebert 1187, Gerald Holton 1883, Sarah Jansen 4107, Sheila S. Jasanoff (Kennedy School) 2248 (on leave fall term), Everett I. Mendelsohn 2700 (on leave 2005-06), Robb Moss 1392, John E. Murdoch 1877, Katharine Park 2974, Antoine Picon (Design School) 4295, Charles E. Rosenberg 3784 (on leave spring term), Barbara Gutmann Rosenkrantz 3651, A. I. Sabra 2702, and Steven Shapin 3984*

Through regular meetings with faculty advisor, each student will focus on research and writing with the purpose of developing a publishable research paper.

## Inner Asian and Altaic Studies

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Committee on Higher Degrees in Inner Asian and Altaic Studies***

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*Chair*)  
 Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History



Robert M. Gimello, Visiting Professor of East Asian Studies and Religious Studies (*University of Arizona*)

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)

Cemal Kafadar, Vehbi Koc Professor of Turkish Studies

C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology

Michael J. Puett, Professor of Chinese History

David J. Roxburgh, Professor of History of Art and Architecture (*on leave fall term*)

John S. Schoeberlein, Lecturer on Near Eastern Languages and Civilizations (*fall term*) and Lecturer on Government (*spring term*)

Wheeler M. Thackston, Jr., Professor of the Practice of Persian and Other Near Eastern Languages

Wei-Ming Tu, Harvard-Yenching Professor of Chinese History and Philosophy and of Confucian Studies

Michael Witzel, Wales Professor of Sanskrit

The Committee supervises the work of graduate students whose interest in Inner Asia is not confined to languages alone, or history alone, but encompasses linguistics, history, religion, art history, and general cultural study. Courses relating to Inner Asian Studies are given by members of the Committee and other faculty in the departments of Anthropology, East Asian Languages and Civilizations, History, History of Art and Architecture, Linguistics, Near Eastern Languages and Civilizations, and Sanskrit and Indian Studies, and by the Committee on the Study of Religion. Interested students should consult these sections of the catalog. The Committee has offices at 1730 Cambridge Street, Cambridge, MA, 02138; 617-495-3777.

## Latin American and Iberian Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Latin American and Iberian Studies*

John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs (*Chair*)

Luis E. Cárcamo-Huechante, Assistant Professor of Romance Languages and Literatures, Associate of Kirkland House (*on leave 2005-06*)

Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature

Thomas B. F. Cummins, Dumbarton Oaks Professor of the History of Pre-Columbian and Colonial Art

Jorge I. Domínguez, Clarence Dillon Professor of International Affairs

Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women,



Gender, and Sexuality (*on leave 2005-06*)

Brian D. Farrell, Professor of Biology

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

Luis Fernández-Cifuentes, Robert S. and Ilse Friend Professor of Romance Languages and Literatures (*on leave spring term*)

Jeffrey Frieden, Stanfield Professor of International Peace

Mary M. Gaylord, Sosland Family Professor of Romance Languages and Literatures

James Hanken, Professor of Biology and Alexander Agassiz Professor of Zoology

N. Michele Holbrook, Charles Bullard Professor of Forestry

Steven R. Levitsky, John L. Loeb Associate Professor of the Social Sciences

J. Lorand Matory, Professor of Anthropology and of African and African American Studies

José Antonio Mazzotti, Gardner Cowles Associate Professor of Romance Languages and Literatures

Donald H. Pfister, Asa Gray Professor of Systematic Botany (*on leave spring term*)

James Robinson, Professor of Government

Doris Sommer, Ira Jewell Williams, Jr., Professor of Romance Languages and Literatures

Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and Professor of Comparative Literature

Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies (*on leave 2005-06*)

John Womack, Jr., Robert Woods Bliss Professor of Latin American History and Economics

The Standing Committee on Latin American and Iberian Studies is appointed to coordinate the Center's research and curricular programs that operate solely within the Faculty of Arts and Sciences, including Harvard College and the Graduate School of Arts and Sciences. The Committee presently includes members representing seven academic disciplines appointed by the Dean of the Faculty of Arts and Sciences. Harvard/Radcliffe students have developed undergraduate programs focused on Latin America in Anthropology, Biology, Economics, Environmental Science and Public Policy, Government, History, History and Literature, Romance Languages and Literatures, Social Studies, and the Special Concentrations program. Although the Committee itself does not offer an undergraduate concentration or an advanced degree, it awards a Certificate in Latin American Studies to Harvard College students who have completed an approved course of study as part of their work toward the AB degree in many concentrations. The Committee also awards a Certificate in Latin American Studies to graduate students who meet its requirements just prior to their receipt of the doctoral degree.

The David Rockefeller Center for Latin American Studies, founded in 1994, coordinates research, teaching, and public programs on Latin America and related fields such as the Caribbean, the Iberian peninsula, and the Latin American Diaspora in the US throughout the University. It works to strengthen ties between Harvard and the countries of the region and to promote public understanding of the cultures, histories, and societies of this diverse region. The Center's governing bodies and committees include faculty from many faculties, departments, and the professional schools; the Center's annual directory of faculty and professional staff lists over 300 faculty members, librarians, curators, administrators, and visiting fellows and scholars with substantial Latin American or related interests.



The David Rockefeller Center is a Title VI National Resource Center, so designated by the US Department of Education in 2000. The Center sponsors lectures, seminars, conferences, exhibitions, and other academic and cultural events; supports faculty research; advises students; funds summer research travel grants to graduate, professional, and undergraduate students; manages the competition for Title VI Foreign Language and Area Studies Fellowships and other fellowships for graduate and professional students; hosts visiting scholars and fellows; provides outreach services to teachers, journalists, and other groups; and administers the Robert F. Kennedy Visiting Professorship of Latin American Studies.

The Center publishes a monthly calendar from September to May; an annual *Guide to Courses* that lists over 100 courses on Latin America and related topics at Harvard; the *Directory of Faculty and Professional Staff*; a magazine, *ReVista*, appearing three times a year; and working paper and book series.

## Linguistics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Linguistics*

Jay Jasanoff, Diebold Professor of Indo-European Linguistics and Philology (*Chair*) (*on leave fall term*)

C.-T. James Huang, Professor of Linguistics (*Acting Chair, fall term*)

Cedric Boeckx, Assistant Professor of Linguistics (*Head Tutor*)

Gennaro Chierchia, Visiting Professor of Linguistics (*University of Milan-Bicocca*)

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

Naoki Fukui, Visiting Professor of Linguistics (*Sophia University*) (*spring term only*)

Diane Massam, Visiting Professor of Linguistics (*University of Toronto*) (*spring term only*)

Andrew Nevins, Assistant Professor of Linguistics

Jeremy Rau, Assistant Professor of Classics and of Linguistics

Adam Szczegielniak, Lecturer on Linguistics (*fall term only*)

#### *Other Faculty Offering Instruction in the Department of Linguistics*

Alfonso Caramazza, Daniel and Amy Starch Professor of Psychology

Wesley M. Jacobsen, Professor of the Practice of Japanese Language

Steven Pinker, Johnstone Family Professor of Psychology

P. Oktor Skjaervo, Aga Khan Professor of Iranian



See also other course listings under the following departments of languages and literatures: Celtic, the Classics, East Asian, English, Germanic, Near Eastern, Romance, Sanskrit and Indian Studies, and Slavic; Social Analysis 34 (Core); and the linguistic offerings at MIT.

***Primarily for Undergraduates***

**[Linguistics 81. Language and Gender]**

Catalog Number: 6808

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*Half course (fall term). Hours to be arranged.*

Surveys the impact of biological sex and gender identification on speech and language use. Speech topics include sex differences in vocal tract size, pitch range, vowel timbre; and the use of phonetic variation to project a desired image. Language use topics include apologies, bragging, compliments, intonation, conceptual metaphor, and structuring social and professional interactions with language. Students will collect and analyze their own data.

*Note:* Expected to be given in 2006–07.

**Linguistics 88. Language and Cognition**

Catalog Number: 5126

*Cedric Boeckx*

*Half course (fall term). M., W., F., at 11 and a weekly section to be arranged. EXAM GROUP: 4*

What does language tell us about the human brain? We will approach this question from various psycholinguistic and neurolinguistic perspectives: speech perception and perceptual illusions; language disorders; blind sight and split brain effects; brain imaging; neural networks and computer modeling of language. We will also touch on the problems of speech recognition and speech synthesis, focusing on the light that these topics shed on the nature of linguistic knowledge.

**\*Linguistics 91r. Supervised Reading and Research**

Catalog Number: 1100

*Cedric Boeckx and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Independent study with a faculty member. For students who wish to pursue a particular linguistic topic not covered in other course offerings.

*Note:* Students should consult the Head Tutor about having this course count towards the concentration.

**\*Linguistics 97r. Group Tutorial — Sophomore Year**

Catalog Number: 1791

*Cedric Boeckx and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Intensive study in a selected linguistic area such as phonology, syntax, historical linguistics, phonetics, morphology, semantics, psycholinguistics, acquisition, sociolinguistics, creole studies, or computational linguistics. Meets as two six-week small-group tutorials, in both the fall and spring terms.

*Note:* Required of concentrators.



**\*Linguistics 98a. Group Tutorial — Junior Year**

Catalog Number: 4222

*Cedric Boeckx and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Meets as two six-week small-group tutorials, both held in the fall term, each covering one of the areas of linguistics listed under Linguistics 97r.

*Note:* Required of concentrators.

**\*Linguistics 98b. Tutorial — Junior Year**

Catalog Number: 7273

*Cedric Boeckx and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Individual tutorial with a faculty member.

*Note:* Required of concentrators.

**\*Linguistics 99. Tutorial — Senior Year**

Catalog Number: 3082

*Cedric Boeckx and members of the Department*

*Full course. Hours to be arranged.*

Individual tutorial with a faculty member for research and writing of the Linguistics honors thesis. Graded Satisfactory or Unsatisfactory. An honors student who expects not to complete the thesis should consult with the Head Tutor about completing other substantial work to receive credit for the course.

*Note:* Required of honors concentrators.

***For Undergraduates and Graduates***

**Linguistics 110. Introduction to Linguistics**

Catalog Number: 1498

*Andrew Nevins*

*Half course (spring term). M., W., F., at 10 and a weekly section to be arranged. EXAM GROUP: 3*

An introduction to contemporary linguistic theory and methods of linguistic analysis: phonetic transcription, phonological, morphological, and syntactic analysis, and methods in comparative and historical linguistics. Some psycholinguistic aspects of language will also be examined. The discussion will draw on data from a wide variety of languages.

**Linguistics 112a. Introduction to Syntactic Theory**

Catalog Number: 7318

*Adam Szczegielniak*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

An introduction to syntactic theory, analysis and argumentation in the model of generative grammar. Discusses analyses and hypotheses of grammatical structure forming the foundation of current syntactic theory. Emphasis on constituent structure analysis, motivation for transformations, constraints on rule application and conditions on representations. Survey of syntactic phenomena, including argument structure, movement, and anaphora.





**Linguistics 112b. Intermediate Syntax**

Catalog Number: 4730

*Cedric Boeckx*

*Half course (spring term). Tu., 1–3 and a weekly section to be arranged. EXAM GROUP: 15, 16*

Continuation of 112a. Fundamental principles and parameters of Government and Binding Theory.

*Prerequisite:* Linguistics 112a.

**[Linguistics 113. Acoustic and Articulatory Phonetics]**

Catalog Number: 3048

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*Half course (fall term). Hours to be arranged.*

Survey of phonetic phenomena that occur in the world's languages. Introduces basic principles in articulatory phonetics, acoustic phonetics, and aerodynamic mechanisms of speech. Emphasis will be placed on learning the principal techniques of experimental phonetics in the phonetics lab.

*Note:* Expected to be given in 2006–07.

**Linguistics 114. Introduction to Morphology**

Catalog Number: 1289

*Andrew Nevins*

*Half course (fall term). Tu., Th., at 12 and a weekly section to be arranged. EXAM GROUP: 14*

An introduction to the analysis of word structure. Topics include the place of word formation in relation to phonological and syntactic phenomena, the nature of the lexicon, current theories of morphology, including Distributed Morphology. Consideration of morphological issues in psycholinguistics. Emphasis on the analysis of morphological phenomena in a wide range of typologically diverse languages.

**Linguistics 115. Introduction to Phonetics and Phonology**

Catalog Number: 2791

*Andrew Nevins*

*Half course (spring term). M., W., at 12 with section F., at 12, 1 or 2. EXAM GROUP: 5*

Analysis of phonetic and phonological phenomena from a wide variety of languages. Topics include distinctive feature theory, underlying and surface representations, the abstractness of phonological representations, rules and their ordering, language acquisition and change. Training in phonetic transcription, spectrogram (“voiceprint”) reading, and hypothesis-testing in phonological analysis.

**Linguistics 116. Semantics**

Catalog Number: 6115

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*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

An introductory course on semantic interpretation in natural language. What does it mean to “know the meaning” of an utterance? This course provides the formal tools to characterize truth-conditional meanings of sentences. Topics covered include the relation between form and



meaning, ambiguity, reference, the role of context dependency, quantifier scope, and variable-binding.

**Linguistics 117r. Linguistic Field Methods**

Catalog Number: 8401

*Diane Massam (University of Toronto)*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

Instruction in the elicitation of phonological, morphological, and syntactic information from a native speaker of an unfamiliar language, toward developing a grammatical sketch of the language. Emphasis on methodology and problems of elicitation and grammatical description in the field. Participants work directly with the native speaker, both individually and as a group, with the assistance of the instructor.

**[Linguistics 118. Introduction to Discourse Analysis]**

Catalog Number: 8709

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*Half course (fall term). Hours to be arranged.*

An examination of various principles that govern communication between the speaker/writer and the hearer/reader. Topics include presupposition, point of view, discourse and sentence themes, discourse deletion, and reference and honorification. Data from English and Japanese.

*Note:* Expected to be given in 2006–07. No knowledge of Japanese required.

**Linguistics 120. Introduction to Historical Linguistics**

Catalog Number: 8486

*Jeremy Rau*

*Half course (spring term). M., W., at 11 and a weekly section to be arranged. EXAM GROUP: 4*

Methods and goals of linguistic reconstruction. Topics include the regularity of sound change, types of linguistic change, the relationship between linguistic reconstruction and synchronic analysis, language contact and borrowing, and mechanisms of linguistic change, including recent theories.

**[Linguistics 122. Introduction to Indo-European]**

Catalog Number: 1336

*Jay Jasanoff*

*Half course (spring term). Hours to be arranged.*

An introduction to the historical study of the Indo-European languages, using the comparative method to arrive at a picture of the parent language of the family, Proto-Indo-European.

*Note:* Expected to be given in 2006–07.

**Linguistics 130. Psycholinguistics**

Catalog Number: 8966

*Adam Szczegielniak*

*Half course (fall term). Tu., Th., at 2 and a weekly section to be arranged. EXAM GROUP: 16*

A survey of current research psycholinguistics for students in linguistics and related fields.

Provides an overview of models of language comprehension and production from word to



sentence level. Aims to expose students to models and methods used in the study of language acquisition, processing, disorders and brain imaging.

**[Linguistics 142. Bilingual Grammar]**

Catalog Number: 9670

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*Half course (spring term). Hours to be arranged.*

Analysis of the phenomenon of bilingualism from the perspective of linguistics as a cognitive science.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* An introductory course in linguistics (e.g. Social Analysis 34 or Ling 110) is desirable, but not required.

**Linguistics 145. Logical Form (formerly Syntax and Interpretation)**

Catalog Number: 5755

*C.-T. James Huang*

*Half course (fall term). Hours to be arranged.*

How does the meaning of a sentence derive from the combination of the meanings of the words it contains? It is generally assumed that word meanings by themselves are not sufficient to account for sentence meanings, and that syntax plays an important role. We explore the hypothesis that there is an abstract level of syntax called Logical Form which, in combination with word meanings, determines a substantial part of the meanings of sentences.

**[Linguistics 149. Categorical Grammar and Related Theories]**

Catalog Number: 0670

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*Half course (fall term). Hours to be arranged.*

The course will examine linguistic phenomena that are relevant for semantics, as well as syntax within the framework of Categorical Grammar and related theories. We will explore the behavior of pronouns, passives, as well as wh-question formation, and coordination. It will be shown that, by adopting independently required principles of semantics and the lexicon, these diverse processes can be accounted for within the framework of Categorical Grammar in a way that simplifies the overall organization of the language faculty, especially syntax.

*Note:* Expected to be given in 2006–07.

**Linguistics 158r. From Indo-European to Old Irish**

Catalog Number: 3801

*Jay Jasanoff*

*Half course (spring term). M., 12–2. EXAM GROUP: 6*

Essentials of Celtic historical and comparative grammar.

*Prerequisite:* Some acquaintance with either Indo-European or Old Irish.

**[Linguistics 168. Introduction to Germanic Linguistics]**

Catalog Number: 7925

*Jay Jasanoff*

*Half course (spring term). Hours to be arranged.*



An introduction to the comparative and historical linguistics of the Germanic family, with emphasis on Gothic and the early medieval languages.

*Note:* Expected to be given in 2006–07.

### **Linguistics 171. Structure of Chinese**

Catalog Number: 4346

*C.-T. James Huang*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Introduction to the syntactic structure of Mandarin Chinese: the basic structure of clauses and nominal constituents; words, compounds, and phrases; word order and variations; selected special topics (passives, resultatives, ba-construction, topic and relativized structures, questions, anaphora, pro drop); syntactic structure and semantic interpretation.

*Prerequisite:* Linguistics 112a in previous or current term or permission of instructor.

### **Linguistics 173. Linguistic Issues in the Teaching of Japanese**

Catalog Number: 4208

*Wesley M. Jacobsen*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

An examination of selected phenomena in Japanese phonology, morphology, and syntax with special attention to difficulties encountered in the acquisition of Japanese by adult native English speakers.

*Prerequisite:* Japanese 101b or its equivalent. Familiarity with basic linguistics concepts desirable.

### **[Linguistics 174. Tense and Aspect in Japanese]**

Catalog Number: 1856

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*Half course (spring term). Hours to be arranged.*

Examination of phenomena of tense and aspect in Japanese, with special attention to verbal semantics and the interaction of temporal categories with modality and transitivity.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Knowledge of Japanese equivalent to Japanese 101b, or familiarity with the linguistic structure of a non-Indo-European language, or permission of instructor.

### **Linguistics 175. Structure of Japanese Linguistics**

Catalog Number: 4029

*Naoki Fukui (Sophia University)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Introduction to the syntactic structure of Modern Japanese: the structure of clauses and noun phrases and other constituents; selected special topics such as word order and scrambling, relative clauses and other sentence modifiers, passives and causatives, case marking, etc., as they pertain to linguistic theory.

*Prerequisite:* Linguistics 112a in previous or current term or permission of instructor.

### **[Linguistics 176. History of the Japanese Language]**

Catalog Number: 4861



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*Half course (spring term). Hours to be arranged.*

An examination of evidence from the comparative method, internal reconstruction, and written documents for reconstructing prehistoric stages of the Japanese language and an overview of major developments in Japanese phonology and grammar from the Nara period through the present day.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Knowledge of Japanese equivalent to Japanese 101b, or familiarity with historical linguistics, or permission of the instructor.

### **Linguistics 181. Issues in Austronesian Linguistics**

Catalog Number: 6030

*Diane Massam (University of Toronto)*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Focuses on theoretical issues that have come to light through the study of Austronesian languages. In particular, we will examine grammatical roles, word order, case systems, predication, wh-movement, and lexical category. Many languages will be discussed, including but not limited to Chamorro, Malagasy, Maori, Niuean, and Tagalog.

### **Linguistics 188. Biolinguistics**

Catalog Number: 2750

*Cedric Boeckx*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

The class is meant as an exploration of the biology of language. Specifically, it investigates the nature of human language and its importance for the study of the mind and the brain. We will discuss current research into the development of language which tries to make sense of the underlying universality of our language faculty as well as the diversity found in individual languages. We will discuss issues of language design (as a biological system) and language evolution.

*Prerequisite:* Linguistics 88 or permission of instructor.

### **Linguistics 190. Structure of American Sign Language**

Catalog Number: 3596

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*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

An introduction to the linguistic structure of American Sign Language (ASL). The course will explore the phonology, morphology, syntax, and semantics of ASL, sign language genesis and creolization, and research tools.

*Note:* Course meets in Grays Hall, Room 5.

*Prerequisite:* Linguistics 110 or permission of instructor.

### ***Cross-listed Courses***

**English 101. The History and Structure of the English Language**

**Greek 134. The Language of Homer**

**[Latin 134. Archaic Latin]**



**[Semitic Philology 140. Introduction to the Comparative Study of Semitic Languages ]**

**[Slavic 125. Modern Russian in Historical Perspective]**

**[Slavic 126a. Structure of Modern Russian: Phonology and Morphology](#)**

**[Yiddish 105. Yiddish Language and Linguistic Theory]**

***Primarily for Graduates***

**[Linguistics 202. Advanced Syntax](#)**

Catalog Number: 8175

*Naoki Fukui (Sophia University)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

The third course in the syntax sequence, focusing on major issues in current syntactic theory. Topics include head movement, case and agreement, anaphora, constraints on movement and derivations.

*Prerequisite:* Linguistics 112b or permission of instructor.

**[Linguistics 204r. Topics in Syntax](#)**

Catalog Number: 6446

*C.-T. James Huang*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Examination of current issues of syntactic theory representing instructor's and/or students' research interest.

**[Linguistics 205r. The Syntax-Semantics Interface]**

Catalog Number: 0776

*C.-T. James Huang*

*Half course (fall term). Hours to be arranged.*

An exploration of issues related to the architecture of the grammar, with emphasis on the structures that are interpreted at the semantic interface, and how they are derived.

*Note:* Expected to be given in 2006–07.

**[Linguistics 206r. Syntactic Structure and Argument Structure](#)**

Catalog Number: 9020

*C.-T. James Huang*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

What is the relationship between a predicate's semantic content and its syntactic realization?

What is the relationship between a predicate's event structure and its argument structure? Does a predicate's semantics determine the syntactic frames it occurs in, or might it be the other way around?

**[Linguistics 207. Topics in Semantics]**

Catalog Number: 8812

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*Half course (fall term). Hours to be arranged.*

The topic this year will be the hypothesis of Direct and Variable-Free Semantics. Special attention will be paid to topics concerning the binding of pronouns and other expressions; the



analysis of ellipsis; and the interaction of ellipsis, binding, and focus under a direct compositional view.

*Note:* Expected to be given in 2006–07.

**[Linguistics 215. Phonological Theory]**

Catalog Number: 5612

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*Half course (fall term). Hours to be arranged.*

Surveys the phonological structures, both the representations and their manipulation, that have evolved over the last half century. Motivates the transitions from linear to non-linear or autosegmental representations and from derivational to non-derivational models, leading to current theory.

*Note:* Expected to be given in 2006–07.

**Linguistics 216. Semantics: Seminar**

Catalog Number: 2148

*Gennaro Chierchia (University of Milan-Bicocca)*

*Half course (spring term). Th., 9–12. First Meeting: Th., Feb 9, Boylston Hall 303. EXAM*

*GROUP: 11, 12, 13*

Addresses current issues at the syntax/semantics/pragmatics interface. Issues to be addressed involve enrichments of meaning rooted in Grice's conversational maxims, the computation of scalar implicatures, and the licensing of Negative Polarity and Free Choice items.

*Note:* First Meeting: Th., Feb 9, Boylston Hall 303.

*Prerequisite:* Linguistics 116 or equivalent.

**[Linguistics 219r. Advanced Phonology]**

Catalog Number: 2154

*Andrew Nevins*

*Half course (fall term). Hours to be arranged.*

An examination of why phonological phenomena exist at all, and the nature of phonological computation. Primary exemplification from harmony, reduplication, and meter. Design conditions imposed by economy, perception, articulation, the learning path, and the lexicon.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Linguistics 114 or permission of the instructor.

**Linguistics 220ar. Advanced Indo-European**

Catalog Number: 3428

*Jay Jasanoff*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Topics in Indo-European comparative grammar. Conducted as a seminar.

**Linguistics 221r. Workshop in Indo-European**

Catalog Number: 1008

*Jeremy Rau*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*





The topic for the year will be arranged in consultation with interested students. Conducted as a seminar.

**[Linguistics 224. Historical and Comparative Linguistics]**

Catalog Number: 2967

*Jay Jasanoff*

*Half course (spring term). Hours to be arranged.*

An introduction to diachronic linguistics at the graduate level. Theory of language change: sound change and analogy, syntactic and semantic change, change in progress. The comparative method: proving genetic relationship, reconstruction, subgrouping.

*Note:* Expected to be given in 2006–07.

**[Linguistics 225a. Introduction to Hittite]**

Catalog Number: 8206

*Jeremy Rau*

*Half course (fall term). Hours to be arranged.*

Grammar and reading of texts in cuneiform and in transliteration; essentials of the comparative grammar of the Indo-European languages of Anatolia.

*Note:* Expected to be given in 2006–07. No previous knowledge of cuneiform presumed.

**[Linguistics 226r. Advanced Hittite]**

Catalog Number: 0858

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*Half course (fall term). Hours to be arranged.*

Grammar and text readings in Cuneiform and Hieroglyphic Luvian.

*Note:* Expected to be given in 2006–07. Provisions will be made for any student who wishes to begin Hittite this term.

**[Linguistics 241r. Practicum in Syntax and Phonology](#)**

Catalog Number: 4260

*C.-T. James Huang and members of the Department*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Presentation of reports on current research or assigned topics.

*Note:* Required of both second- and third-year graduate students concentrating in syntax or phonology.

**[Linguistics 242r. Practicum in Historical Linguistics]**

Catalog Number: 5569

*Jay Jasanoff*

*Half course (spring term). Hours to be arranged.*

Presentation of reports on current research or assigned topics.

*Note:* Expected to be given in 2006–07. Required of both second- and third-year graduate students concentrating in historical linguistics.

**[Linguistics 247. Topics in Germanic Linguistics]**

Catalog Number: 3693



*Jay Jasanoff*

*Half course (fall term). Hours to be arranged.*

Investigation of selected topics in Germanic historical linguistics.

*Note:* Expected to be given in 2006–07.

**Linguistics 250. Old Church Slavonic**

Catalog Number: 8449

*Michael S. Flier*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

History of the first Slavic literary language, its role in Slavic civilization; phonology, morphology, syntax, and vocabulary of Old Church Slavonic; reading from canonical texts.

**[Linguistics 252. Comparative Slavic Linguistics]**

Catalog Number: 3571

*Michael S. Flier*

*Half course (spring term). Hours to be arranged.*

Introduction to the historical phonology and morphology of the Slavic languages with special attention to relative chronology and linguistic geography.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Linguistics 250.

**[Linguistics 291r. Functional Approach to Syntax]**

Catalog Number: 5046

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*Half course (spring term). Hours to be arranged.*

Discourse-oriented analysis of syntax based on the functional sentence perspective (theme and rheme) and on the “point of view” perspective (the speaker’s attitude toward participants in an event). Examines pronominalization, reflexivization, and various deletion and movement processes.

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

**[Arabic 240r. Classical Arabic Philology]**

**Celtic 200. Introduction to Old Irish**

**Celtic 201. Continuing Old Irish**

**[Celtic 225a. Introduction to Middle Welsh]**

**[Celtic 225b. Continuing Middle Welsh]**

**[Computer Science 287r. Natural Language Processing]**

**Computer Science 288. Computational Models of Discourse**

**\*Psychology 2280. Language and Human Nature**

**[Semitic Philology 200r. Comparative Semitic Grammar: Seminar]**

**Slavic 201. Introduction to East Slavic Languages**

**[Slavic 296r. Slavic Linguistics: Seminar]**

***Graduate Courses of Reading and Research***



**\*Linguistics 300. Direction of Doctoral Dissertations**

Catalog Number: 6729

*Cedric Boeckx 4716, Alfonso Caramazza 1871, Michael S. Flier 2878, C.-T. James Huang 4066, Wesley M. Jacobsen 3443, Jay Jasanoff 1661 (on leave fall term), Andrew Nevins 5145, Steven Pinker 4733, Jeremy Rau 4657, P. Oktor Skjaervo 2869, and Adam Szczegielniak 5195 (fall term only)*

**\*Linguistics 301. Reading or Special Topics Course**

Catalog Number: 0861

*Members of the Department and others listed under Linguistics 300.*

## Literature

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on Degrees in Literature***

Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English (*Chair*)

Daniel Albright, Ernest Bernbaum Professor of Literature (*on leave fall term*)

Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature

Julie A. Buckler, Professor of Slavic Languages and Literatures

Tom Conley, Abbott Lawrence Lowell Professor of Romance Languages and Literatures

Verena A. Conley, Visiting Professor of Literature and of Romance Languages and Literatures

Leland P. de la Durantaye, Assistant Professor of English and American Literature and Language

James Engell, Gurney Professor of English Literature and Professor of Comparative Literature

Marjorie Garber, William R. Kenan, Jr. Professor of English and American Literature and Language and of Visual and Environmental Studies

Luis M. Girón Negrón, John L. Loeb Associate Professor of the Humanities

John T. Hamilton, John L. Loeb Associate Professor of the Humanities (*on leave 2005-06*)

Christopher D. Johnson, Assistant Professor of Comparative Literature

Despina Kakoudaki, Assistant Professor of Visual and Environmental Studies and of Comparative Literature

Christie McDonald, Smith Professor of French Language and Literature

Sandra Naddaff, Senior Lecturer on Literature and on Comparative Literature (*Director of Studies*)

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

Stephen Owen, James Bryant Conant University Professor

Eric Rentschler, Arthur Kingsley Porter Professor of Germanic Languages and Literatures



Judith Ryan, Robert K. and Dale J. Weary Professor of German and of Comparative Literature  
(*on leave fall term*)

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of  
African and African American Studies

Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of  
Comparative Literature

William Mills Todd III, Harvard College Professor, Harry Tuchman Levin Professor of  
Literature, and Professor of Comparative Literature (*on leave 2005-06*)

Justin Weir, John L. Loeb Associate Professor of the Humanities (*on leave fall term*)

***Other Faculty Offering Instruction in the Literature Concentration***

Herschel J. Farbman, Lecturer on Literature

Rita B. Goldberg, Lecturer on Literature

Eyal Peretz, Lecturer on Literature

***Primarily for Undergraduates***

**\*Literature 91r. Supervised Reading and Research**

Catalog Number: 1074

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

A graded, supervised course of reading and research to be conducted by a person approved by  
the Committee.

*Note:* Permission of Director of Studies required.

**\*Literature 97a. Tutorial — Sophomore Year**

Catalog Number: 2776

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (fall term). Hours to be arranged.*

*Note:* Successful completion of one term of Literature 97a is required of all concentrators in their  
sophomore year.

**\*Literature 97b. Tutorial — Sophomore Year**

Catalog Number: 4595

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Literature 97b is required of all concentrators in their  
sophomore year.

**\*Literature 98a. Tutorial — Junior Year**

Catalog Number: 3119

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (fall term). Hours to be arranged.*

*Note:* Successful completion of one term of Literature 98a is required of all concentrators in their  
junior year.



**\*Literature 98b. Tutorial — Junior Year**

Catalog Number: 1528

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Literature 98b is required of all concentrators in their junior year.

**\*Literature 99a. Tutorial — Senior Year**

Catalog Number: 4857

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (fall term). Hours to be arranged.*

*Note:* Successful completion of one term of Literature 99a is required of all concentrators in their senior year.

**\*Literature 99b. Tutorial — Senior Year**

Catalog Number: 1290

*Sandra Naddaff and members of the Committee and Tutorial Board*

*Half course (spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Literature 99b is required of all concentrators in their senior year.

***For Undergraduates and Graduates***

**[\*Literature 100. Narrative Forms]**

Catalog Number: 5556 Enrollment: Limited to 15.

*Sandra Naddaff*

*Half course (fall term). Hours to be arranged.*

An examination and analysis of narrative techniques and strategies in a variety of texts ranging from simple to complex narrative forms. Texts from different narrative contexts and cultures will be considered and will include the *1001 Nights*, *The Odyssey*, *Madame Bovary*, *The Sound and The Fury*, and *Season of Migration to the North*, as well as important works of narrative theory.

*Note:* Expected to be given in 2006–07.

**Literature 106. Literary Genres: Lyric Poetry**

Catalog Number: 6351

*Christopher D. Johnson*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Explores the history of Western lyric poetry and how lyric has given voice to the recurrent themes of love, death, and subjectivity. Poetic techniques and forms will be examined, as will the roles that lyric has played as a vehicle for intellectual and cultural values. Poets to be read include Sappho, Catullus, Ovid, Bertran de Born, Dante, Petrarch, Donne, Quevedo, Sponde, Goethe, Labé, Blake, Dickinson, Baudelaire, Hölderlin, Rimbaud, Celan, Pound, Akhmatova, and Carson.

**[\*Literature 108. Theories of Gender and Sexuality]**

Catalog Number: 9933 Enrollment: Limited to 20.



Verena A. Conley

*Half course (spring term). Hours to be arranged.*

Focuses on issues of gender and sexuality in theory, literature and film. (Foucault, Freud, Halperin, Cixous, Wittig, Rich, Butler, Grosz, Livingston, Feinberg, Bersani, Genet, Warner and others). Focuses on key texts to explore notions of sexuality, gender, transgendering, queering, performance and performativity, universality and contingency.

*Note:* Expected to be given in 2006–07.

**[\*Literature 109. On Translation]**

Catalog Number: 0594 Enrollment: Limited to 20.

Sandra Naddaff

*Half course (fall term). Hours to be arranged.*

Examines theories of translation from various periods (Dryden, Schopenhauer, Schleiermacher, Benjamin, de Man, among others). Also looks closely at specific translated texts (e.g., various English translations of *The Thousand and One Nights*), and considers such topics as the notion of “unequal languages,” the problem of cultural translation, the genre of the bi-cultural memoir, and the possibility of untranslatability. Final project involves an original translation and commentary.

*Note:* Expected to be given in 2006–07. Preference given to Literature concentrators.

*Prerequisite:* Reading knowledge of one foreign language.

**[Literature 110. Furor Poeticus: Madness, Inspiration, Genius]**

Catalog Number: 7758

John T. Hamilton

*Half course (fall term). Hours to be arranged.*

The course begins with the classical conception of mania as a divine source of prophecy, ecstasy, poetic creation, and erotic desire; then traces its manifestations and elaboration in select literary, theoretical and critical works of the Western tradition. Readings from: Sophocles, Plato, Seneca, Ficino, Shaftesbury, Diderot, Goethe, Büchner, Hölderlin, Nerval, Lautréamont, Freud, Breton, Artaud, Foucault, Kristeva, and C. Wolf.

*Note:* Expected to be given in 2006–07.

**[\*Literature 116. Literature and Science]**

Catalog Number: 6289 Enrollment: Limited to 20.

Christopher D. Johnson

*Half course (spring term). Hours to be arranged.*

Explores how literature in different historical periods represents and reshapes the ideas, methods, and language of science. Compares the ways reason and the imagination function in literature and science. Considers how literature rethinks the cultural and historical significance of the scientific enterprise. Primary texts include Lucretius, Donne, Copernicus, Kepler, Cavendish, Fontenelle, Shelley, Goethe, Darwin, Calvino and Gibson.

*Note:* Expected to be given in 2006–07.

**[\*Literature 118. Film, Philosophy and Psychoanalysis]**

Catalog Number: 0962 Enrollment: Limited to 20.

Eyal Peretz

*Half course (spring term). Hours to be arranged.*



The 20th century saw an unprecedented critical investigation of vision, and nowhere more so than in the art of film. This course introduces students to key theoretical texts from Heidegger to Lacan and Foucault, posing vision as a problem, and approaches film itself as a philosophical investigation of vision. We study filmmakers from Eisenstein to Kubrick, with special emphasis on two directors—Hitchcock and De Palma—as rigorously pursuing cinema’s theoretical potential.

*Note:* Expected to be given in 2006–07.

**\*Literature 119. Comparative Arts**

Catalog Number: 0078 Enrollment: Limited to 18.

*Marc Shell and Daniel Albright*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Is there one Art, or are there many arts? We will consider affinity and difference among literature, painting, music, and other arts. Student projects will investigate works of art that submit to or reject a particular material medium. Theory from Plato (Ion), Aristotle, Lessing, Burke, Diderot, Rousseau, Hegel, Pater, Greenberg, Heidegger; examples from Homer, Leonardo, Turner, Monet, Rossetti, Wagner, Richard Strauss, Apollinaire, Schoenberg--and others.

**[Literature 120. Backgrounds of Literary Theory]**

Catalog Number: 2001

*Stephen Owen*

*Half course (fall term). Hours to be arranged.*

Close reading of selected texts in the European theoretical tradition, with particular attention to the formation of issues and assumptions that informed developments in literary theory in the 20th century. Readings include works by Plato, Aristotle, “Longinus,” Sidney, Kant, Schiller, F. Schlegel, Hegel, and Nietzsche.

*Note:* Expected to be given in 2006–07.

**[\*Literature 122. Literature and Music]**

Catalog Number: 2360 Enrollment: Limited to 20.

*Sandra Naddaff*

*Half course (spring term). Hours to be arranged.*

Explores the intersection of literary texts and genres with musical forms and themes in a number of different contexts. Topics include such issues as the adaptation of text into music; the thematization of music in narrative; the Broadway musical; and music and poetry. Works include various versions of the Orpheus myth, *The Kreuzer Sonata*, *Ulysses*, *West Side Story*, *Jazz*, *An Equal Music*, as well as various theoretical texts on aesthetics and representation.

*Note:* Expected to be given in 2006–07. Preference given to Literature concentrators.

**[\*Literature 124. Space and Place in Postmodern Culture]**

Catalog Number: 8228 Enrollment: Limited to 20.

*Verena A. Conley*

*Half course (fall term). Hours to be arranged.*

Focuses on renewed awareness of space in contemporary theory, literature and film. Examines notions of space and place under the impact of consumerism and electronic technologies in a





global world. Texts and films include Lefebvre, Godard, de Certeau, Wenders, Baudrillard, Perec, Tati, Augé, Deleuze and Guattari, Virilio and Verhoeven.

*Note:* Expected to be given in 2006–07.

### **\*Literature 128. Performing Texts**

Catalog Number: 3404 Enrollment: Limited to 20.

*Julie A. Buckler*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Examines performance as its own subject in drama, opera, musical theater, film, and dance (e.g., *Tosca*, *The Red Shoes*, *The Seagull*), and as represented in verbal and visual art. Juxtaposes perspectives rendered by literature and the arts with theoretical readings in the emerging interdisciplinary and de-centered field of performance studies.

### **\*Literature 136. Writers and Their Medium**

Catalog Number: 5842 Enrollment: Limited to 20.

*Verena A. Conley*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Focuses on the relation between writers and the act of writing (Blanchot, Bernhard, Cixous, James, Joyce, Kafka, Kleist, Lispector, Rilke, Tsvetaeva and others). Focuses on the relation between writing, philosophy and psychoanalysis. Special attention will be paid to questions of gender, representation and performance.

### **[\*Literature 138 (formerly Slavic 143). Russian Formalism]**

Catalog Number: 0724 Enrollment: Limited to 20.

*Justin Weir*

*Half course (spring term). Hours to be arranged.*

We consider major works of the Russian Formalists in English translation. Central texts by Viktor Shklovsky, Boris Eikhenbaum, Yury Tynyanov, and Roman Jakobson are analyzed alongside stories by Gogol, Dostoevsky, Pasternak, and Eisenstein's film, "October." The last third of the course is devoted to Bakhtin's theory of the novel, Czech structuralism, and recent Formalist-influenced movements in Western literary criticism.

*Note:* Expected to be given in 2006–07. All readings in English.

### **\*Literature 140. Colonial and Post-Colonial Spaces: France and North Africa**

Catalog Number: 9366 Enrollment: Limited to 20.

*Verena A. Conley*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Focuses on transformations of colonial and postcolonial spaces in North Africa that include Morocco, Tunisia, and, especially, Algeria by way of literature, film and theory (Camus, Said, Fanon, Bhabha, Memmi, Djebbar, Allouache Tlatli, Amari, Kassovitz and others). Special attention is given to language, subjectivity, citizenship, and identity; territory, nation and community. We will also examine the emergence of new cultural spaces in connection with postcolonial and global migration in France and in Europe.

### ***Cross-listed Courses***



**Chinese Literature 130. Screening Modern China: Chinese Film and Culture**

[Chinese Literature 132. Chinatowns]

[Chinese Literature 228. Asian Modernities: An Introduction to Critical and Cultural Theories]

[Comparative Literature 142 (formerly German 142). Germany and the Greeks: Philhellenism from Winckelmann to Heidegger]

[Comparative Literature 158. Turning the Century: Culture, Technology, and Representation, 1870–1910]

[Comparative Literature 161. The Modernist Movements, 1909–1939]

[Comparative Literature 165. The Holocaust and Problems of Representation]

[Comparative Literature 167. Contemporary Fiction: The Novel After Theory]

[\*Comparative Literature 172 (formerly \*Comparative Literature 269). Paralysis]

[Comparative Literature 180 (formerly German 180). Melopoeia: On German Music and Letters]

**Comparative Literature 186. Things Come to Life: Imagining Animated Objects in Literature, Philosophy, and Culture**

[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]

[\*Comparative Literature 210. Comparative Themes in the Literatures of Medieval Spain: Seminar]

**\*Comparative Literature 211. Mysticism and Literature: Seminar**

[Comparative Literature 246. Baroque and Neo-Baroque Literature]

[\*Comparative Literature 261. Memory and Modernity: Seminar]

**\*Comparative Literature 262. Aesthetics and Freedom**

**Comparative Literature 273. Approaches to Modernity: The Metropolis**

[Comparative Literature 275. Theory of Narrative: Conference Course]

**Comparative Literature 276. Renaissance Poetics and Rhetoric**

[\*Comparative Literature 283. Language War: Seminar]

**\*Comparative Literature 287r. Selected Topics in Poetics and Rhetoric: Seminar**

**\*English 90ml. Money and Literature**

**English 167p. Postcolonial Narratives**

**English 196. Literature of Migration and Ethnicity: The Case of the United States**

**\*English 251. Comparative Romantic Theory: Graduate Seminar**

**French 121. The Text of the Renaissance**

[French 132a. 20th-Century French Fiction I: The Realist Mode]

[French 132b. 20th-Century French Fiction II: The Experimental Mode]

[French 137. 20th-Century French Theater]

**French 167. Parisian Cityscapes**

[French 170. The City]

[French 184. Cinema and the *auteur*]

[French 263. French Society in Film and History, 1895-1950]

**French 271. Legacies of Poststructuralism: An Introduction**

[French 273. Globalization and French Culture]

[French 279. Spatial Textures of Critical Theory]

**French 285r. French Literature: Seminar**

[German 151. Franz Kafka: Modernity and Its Discontents]



[Jewish Studies 140. Deconstruction and Questions of Jewish Identity: Seminar](#)

[Latin American Studies 110. Dictatorship/Postdictatorship: Memory, Media, and Market Culture]

[Slavic 192 (formerly Slavic 179). Literature as Institutions: Conference Course]

[Spanish 115. The Hispanic and the Judaic after 1492: Seminar](#)

[\\*Visual and Environmental Studies 159. Film Theory/Film Practice: Seminar/Workshop](#)

[Visual and Environmental Studies 171h. Histories of Cinema I: Moving Pictures from the 1890s to the 1930s](#)

[Visual and Environmental Studies 177 (formerly Comparative Literature 183). Film and the Human Body]

[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts](#)

## Mathematics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Mathematics*

Clifford Taubes, William Petschek Professor of Mathematics (*Chair*)

Paul G. Bamberg, Senior Lecturer on Mathematics

Bret J. Benesh, Preceptor in Mathematics

Kevin Buzzard, Visiting Professor of Mathematics (*Imperial College*) (*spring term only*)

Francesco Calegari, Benjamin Peirce Assistant Professor of Mathematics

Tom Coates, Benjamin Peirce Assistant Professor of Mathematics (*on leave spring term*)

Samit Dasgupta, Benjamin Peirce Assistant Professor of Mathematics

Alberto De Sole, Benjamin Peirce Assistant Professor of Mathematics

Elizabeth Denne, Benjamin Peirce Assistant Professor of Mathematics

Eaman Eftekhary, Benjamin Peirce Assistant Professor of Mathematics

Noam D. Elkies, Professor of Mathematics

Dennis Gaitsgory, Professor of Mathematics

Véronique Godin, Benjamin Peirce Assistant Professor of Mathematics

Daniel L. Goroff, Professor of the Practice of Mathematics (*on leave 2005-06*)

Robin Gottlieb, Senior Preceptor in Mathematics

Benedict H. Gross, George Vasmer Leverett Professor of Mathematics and Dean of Harvard College

Joseph D. Harris, Higgins Professor of Mathematics

David Helm, Benjamin Peirce Assistant Professor of Mathematics (*on leave 2005-06*)

Michael J. Hopkins, Professor of Mathematics



Arthur M. Jaffe, Landon T. Clay Professor of Mathematics and Theoretical Science  
 Thomas W. Judson, Preceptor in Mathematics  
 Oliver Knill, Preceptor in Mathematics  
 Joachim Krieger, Benjamin Peirce Assistant Professor of Mathematics  
 Peter B. Kronheimer, William Caspar Graustein Professor of Mathematics (*Director of Undergraduate Studies*)  
 Thomas Lam, Benjamin Peirce Assistant Professor of Mathematics  
 Matthew P. Leingang, Preceptor in Mathematics  
 Jacob Lurie, Lecturer on Mathematics (*spring term only*)  
 Barry C. Mazur, Gerhard Gade University Professor  
 Curtis T. McMullen, Maria Moors Cabot Professor of the Natural Sciences  
 Andreea C. Nicoara, Benjamin Peirce Assistant Professor of Mathematics  
 Martin A. Nowak, Professor of Mathematics and of Biology  
 David J. Pollack, Visiting Assistant Professor of Mathematics (*Wesleyan University*)  
 Gerald E. Sacks, Professor of Mathematical Logic  
 Wilfried Schmid, Dwight Parker Robinson Professor of Mathematics  
 Yum Tong Siu, William Elwood Byerly Professor of Mathematics  
 Shlomo Z. Sternberg, George Putnam Professor of Pure and Applied Mathematics (*on leave spring term*)  
 Robert M. Strain, Benjamin Peirce Assistant Professor of Mathematics  
 Richard L. Taylor, Herchel Smith Professor of Mathematics (*Director of Graduate Studies*)  
 Angela G. Vierling-Claassen, Preceptor in Mathematics  
 Benjamin Weinkove, Benjamin Peirce Assistant Professor of Mathematics (*on leave 2005-06*)  
 Horng-Tzer Yau, Professor of Mathematics  
 Shing-Tung Yau, William Caspar Graustein Professor of Mathematics  
 Ilia Zharkov, Benjamin Peirce Assistant Professor of Mathematics

The Mathematics Department would like to welcome students into that course for which they are best qualified. Incoming students should take advantage of Harvard's Mathematics Placement Test and of the science advising available in the Science Center the week before classes begin. Members of the Mathematics Department will be available during this period to consult with students. Generally, students with a strong precalculus background and some calculus experience will begin their mathematics education here with a deeper study of calculus and related topics in courses such as Mathematics 1a, 1b, 19, 20, and 21a, b. The Harvard Mathematics Placement Test results recommend the appropriate starting level course, either Mathematics Xa, 1a, 1b, or 21. Recommendation for Mathematics 21 is sufficient qualification for Mathematics 19, 20, 21a, 23a, and 25a.

In any event, what follows briefly describes these courses: Mathematics 1a introduces the basic ideas and techniques of calculus while Mathematics 1b covers integration techniques, differential equations, sequences and series. Mathematics 21a covers multi-variable calculus while Mathematics 21b covers basic linear algebra with applications to differential equations. Students who do not place into (or beyond) Mathematics 1a can take Mathematics Xa, Xb, a two-term sequence which integrates calculus and precalculus material and prepares students to enter Mathematics 1b.



There are a number of options available for students whose placement is to Mathematics 21. For example, Mathematics 19 can be taken either before or after Mathematics 21 (or Mathematics 20). Mathematics 19 covers modeling and differential equation topics for students interested in biological and other life science applications. Mathematics 20 covers selected topics from Mathematics 21a and 21b for students particularly interested in economic and social science applications.

Mathematics 23 is a theoretical version of Mathematics 21 which treats multivariable calculus and linear algebra in a rigorous, proof oriented way. Mathematics 25 and 55 are theory courses that should be elected only by those students who have a particular interest in, and commitment to, mathematics. They assume a solid understanding of one-variable calculus and a willingness to think rigorously and abstractly about mathematics, and to work extremely hard. Both courses study multivariable calculus and linear algebra plus many very deep related topics. Mathematics 25 differs from Mathematics 23 in that the work load in Mathematics 25 is significantly more than in Mathematics 23, but then Mathematics 25 covers more material. Mathematics 55 differs from Mathematics 25 in that the former assumes a very strong proof oriented mathematics background.

The suitability of Mathematics 55 and higher numbered courses is not addressed by the placement examinations. Students who have had substantial preparation beyond the level of the Advanced Placement Examinations are urged to consult the Department Head Tutor in Mathematics concerning their initial Harvard mathematics courses. Students should take this matter very seriously. The Mathematics Department has also prepared a pamphlet with a detailed description of all its 100-level courses and their relationship to each other. This pamphlet gives sample lists of courses suitable for students with various interests. It is available at the Mathematics Department Office. Many 100-level courses assume some familiarity with proofs. Courses that fulfill this prerequisite include Mathematics 23, 25, 55, 101, 112, 121, and 141. Of these, note that Mathematics 101 may be taken concurrently with Mathematics 1, 19, 20, or 21.

The Mathematics Department does not grant formal degree credit without *prior* approval for taking a course that is listed as a prerequisite of one you have already taken. Our policy is that a student who takes and passes any calculus course is not normally permitted to then take a more elementary course for credit. A student who has passed Mathematics 21a, for example, will normally not be allowed to take Mathematics 1a, or 1b for credit. The Mathematics Department is prepared to make exceptions for sufficient academic reasons; in each case, however, a student must obtain written permission from the Mathematics Head Tutor in advance.

In the case of students accepting admission as sophomores, this policy is administered as follows: students counting one half course of advanced standing credit in mathematics are deemed to have passed Mathematics 1a, and students counting a full course of advanced standing credit in mathematics are deemed to have passed Mathematics 1a and 1b.

### ***Primarily for Undergraduates***

#### **Mathematics Xa. Introduction to Functions and Calculus I**

Catalog Number: 1981 Enrollment: Normally limited to 15 students per section.



*Angela G. Vierling-Claassen, Bret J. Benesh, and members of the Department*  
*Half course (fall term). Section meeting times: Section I: M., W., F., at 10; Section II: M., W., F., at 11; Section III: M. W. F., at 12 (with sufficient enrollment). EXAM GROUP: 1*

The study of functions and their rates of change. Fundamental ideas of calculus are introduced early and used to provide a framework for the study of mathematical modeling involving algebraic, exponential, and logarithmic functions. Thorough understanding of differential calculus promoted by year long reinforcement. Applications to biology and economics emphasized according to the interests of our students.

*Note:* Required first meeting: Monday, September 19, 8:30 am, Science Center D. The sequence Xa, Xb gives solid preparation for Mathematics 1b. This course, when taken for a letter grade together with Mathematics Xb, meets the Core area requirement for Quantitative Reasoning.

### **Mathematics Xb. Introduction to Functions and Calculus II**

Catalog Number: 3857 Enrollment: Normally limited to 15 students per section.

*Angela G. Vierling-Claassen, Bret J. Benesh, and members of the Department*  
*Half course (spring term). Section I: M., W., F., at 10; Section II: M. W., F., at 11; Section III: M., W., F., at 12 (with sufficient enrollment); and a twice weekly lab session to be arranged.*  
*EXAM GROUP: 3*

Continued investigation of functions and differential calculus through modeling; an introduction to integration with applications; an introduction to differential equations. Solid preparation for Mathematics 1b.

*Note:* This course, when taken for a letter grade together with Mathematics Xa, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics Xa.

### **Mathematics 1a. Introduction to Calculus**

Catalog Number: 8434 Enrollment: Normally limited to 30 students per section.

*Thomas W. Judson, Bret J. Benesh, Robin Gottlieb (fall term), and David J. Pollack (spring term)*

*Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., at 12; Section V, Tu., Th., 10–11:30; Section VI, Tu., Th., 11:30–1. Spring: Section I, M., W., F., at 10; Section II, Tu.Th. 10-11:30 (with sufficient enrollment) and a weekly problem section to be arranged. EXAM GROUP: 1*

The development of calculus by Newton and Leibniz ranks among the greatest achievements of the past millennium. This course will help you see why by introducing: how differential calculus treats rates of change; how integral calculus treats accumulation; and how the fundamental theorem of calculus links the two. These ideas will be applied to optimization, graphing, mechanisms, and problems from many other disciplines.

*Note:* Required first meeting in fall: Tuesday, September 20, 8:30 am, Science Center D. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* A solid background in precalculus.

### **Mathematics 1b. Calculus, Series, and Differential Equations**

Catalog Number: 1804 Enrollment: Normally limited to 30 students per section.





*Matthew P. Leingang and Angela G. Vierling-Claassen (fall term); Thomas W. Judson, Robin Gottlieb, and Robert M. Strain (spring term)*

*Half course (fall term; repeated spring term). Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., at 12 (with sufficient enrollment); Section V: Tu., Th., 10–11:30; Section VI, Tu., Th., 11:30–1, and a weekly problem section to be arranged. First meeting, spring: W., Feb 1, 8:30 am, Science Center A. EXAM GROUP: Fall: 1; Spring: 2*

Speaking the language of modern mathematics requires fluency with the topics of this course: infinite series, integration, and differential equations. Model practical situations using integrals and differential equations. Learn how to represent interesting functions using series and find qualitative, numerical, and analytic ways of studying differential equations. Develop both conceptual understanding and the ability to apply it.

*Note:* Required first meeting in fall: Monday, September 19, 8:30 am, Science Center C. Required first meeting in spring: Wednesday, February 1, 8:30 am, Science Center A. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 1a, or Xa and Xb, or equivalent.

### **Mathematics 19. Mathematical Modeling**

Catalog Number: 1256

*Thomas W. Judson*

*Half course (fall term). M., W., F., at 1, and a weekly problem section to be arranged. EXAM GROUP: 6*

Considers the construction and analysis of mathematical models that arise in the environmental sciences, biology, the ecological sciences, and in earth and atmospheric sciences. Introduces mathematics that include multivariable calculus, differential equations in one or more variables, vectors, matrices, and linear and non-linear dynamical systems. Taught via examples from current literature (both good and bad).

*Note:* Can be taken with or without Mathematics 21a,b. Students with interests in the social sciences and economics might consider Mathematics 20. This course can be taken before or after Mathematics 20. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

### **Mathematics 20. Introduction to Linear Algebra and Multivariable Calculus**

Catalog Number: 0906

*Matthew P. Leingang*

*Half course (fall term; repeated spring term). M., W., F., at 10, and a weekly problem section to be arranged. EXAM GROUP: 3*

Introduction to linear algebra, including vectors, matrices, and applications. Calculus of functions of several variables, including partial derivatives, constrained and unconstrained optimization, and applications. Covers the topics from Mathematics 21a,b which are most important in applications to economics, the social sciences, and some other fields.

*Note:* Should not ordinarily be taken in addition to Mathematics 21a,b. Examples drawn primarily from economics and the social sciences though Mathematics 20 may be useful to students in certain natural sciences. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.





*Prerequisite:* Mathematics 1b or equivalent, or an A or A- in Mathematics 1a, or a 5 on the AB or a 3 or higher on the BC Advanced Placement Examinations in Mathematics.

### **Mathematics 21a. Multivariable Calculus**

Catalog Number: 6760 Enrollment: Normally limited to 30 students per section.

*Oliver Knill, Paul G. Bamberg, and Thomas Lam (fall term); Oliver Knill, Matthew P. Leingang, Veronique Godin, Joachim Krieger, and Thomas Lam (spring term)*

*Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., at 12; Section V, Tu., Th., 10–11:30; Section VI, Tu., Th., 11:30–1; and a weekly problem section to be arranged. First meeting, spring: W., Feb 1, 8:30 am, Science Center C. EXAM GROUP:*

*Fall: 1; Spring: 2*

To see how calculus applies in practical situations described by more than one variable, we study: Vectors, lines, planes, parameterization of curves and surfaces, partial derivatives, directional derivatives, and the gradient, optimization and critical point analysis, including constrained optimization and the Method of Lagrange Multipliers, integration over curves, surfaces, and solid regions using Cartesian, polar, cylindrical, and spherical coordinates, divergence and curl of vector fields, and the Green's, Stokes', and Divergence Theorems.

*Note:* Required first meeting in fall: Tuesday, September 20, 8:30 am, Science Center C.

Required first meeting in spring: Wednesday, February 1, 8:30 am, Science Center C. May not be taken for credit by students who have passed Applied Mathematics 21a. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning. Activities using computers to calculate and visualize applications of these ideas will not require previous programming experience. Special sections for students interested in physics or biochemistry and social sciences are offered each term. The biochemistry/social sciences sections treat topics in probability and statistics in lieu of Green's, Stokes' and the Divergence Theorems.

*Prerequisite:* Mathematics 1b or equivalent.

### **Mathematics 21b. Linear Algebra and Differential Equations**

Catalog Number: 1771 Enrollment: Normally limited to 30 students per section.

*Andreea C. Nicoara (fall term); Clifford Taubes, Angela G. Vierling-Claassen, and Ilia Zharkov (spring term)*

*Half course (fall term; repeated spring term). Fall: Section I: M., W., F., at 10; Section II: M., W., F., at 11; Spring: Section I: M., W., F., at 10; Section II: M., W., F., at 11; Section III: M., W., F., at 12 (with sufficient enrollment); Section IV: Tu., Th., 10–11:30; Section V: Tu., Th., 11:30–1 and a weekly problem section to be arranged. First Meeting, spring: W., Feb 1, 8:30 am, Science Center D. EXAM GROUP: Fall: 1; Spring: 3*

Matrices provide the algebraic structure for solving myriad problems across the sciences. We study matrices and related topics such as vectors, Euclidean spaces, linear transformations, determinants, eigenvalues, and eigenvectors. Of applications given, a regular section considers dynamical systems and both ordinary and partial differential equations. Accompanying an introduction to statistical techniques, applications from biology and other data-rich sciences are presented in a biology and statistics section.

*Note:* Required first meeting in fall: Monday, September 19, 8:30 am, Science Center A.

Required first meeting in spring: Wednesday, February 1, 8:30 am, Science Center D. May not be taken for credit by students who have passed Applied Mathematics 21b. This course, when



taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 1b or equivalent. Mathematics 21a is commonly taken before Mathematics 21b, but is not a prerequisite, although familiarity with partial derivatives is useful.

### **Mathematics 23a. Theoretical Linear Algebra and Multivariable Calculus I**

Catalog Number: 2486

*Alberto De Sole*

*Half course (fall term). M., W., F., at 11, and a weekly conference section to be arranged. EXAM GROUP: 4*

A rigorous treatment of linear algebra and the calculus of functions of  $n$  real variables. Topics include: Construction of number systems, fields; vector spaces and linear transformations, eigenvalues and eigenvectors, multilinear forms, and determinants; elementary topology of Euclidean space, inner products, and norms; differentiation and integration of functions of several real variables, the classical theorems of vector analysis.

*Note:* Mathematics 23a, b are honors courses, specifically designed for students with strong mathematics backgrounds who are seriously interested in continuing in the theoretical sciences. See the description in the introductory paragraphs in the Mathematics section of the catalog. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 1b or a grade of 4 or 5 on the Calculus BC Advanced Placement Examination. Mathematics 23 goes well beyond the concepts strictly necessary for Physics 15, which are more closely correlated with Mathematics 21.

### **Mathematics 23b. Theoretical Linear Algebra and Multivariable Calculus II**

Catalog Number: 8571

*Alberto De Sole*

*Half course (spring term). M., W., F., at 11, and a weekly conference section to be arranged. EXAM GROUP: 4*

Continuation of the subject matter of Mathematics 23a.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 23a.

### **Mathematics 25a. Honors Multivariable Calculus and Linear Algebra**

Catalog Number: 1525

*Elizabeth Denne*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

A rigorous treatment of linear algebra, point-set and metric topology, and the calculus of functions in  $n$  variables. Emphasis placed on careful reasoning, and on learning to understand and construct proofs.

*Note:* Only for students with a strong interest and background in mathematics. May not be taken for credit after Mathematics 23. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* A 5 on the Advanced Placement BC-Calculus Examination, or the equivalent as determined by the instructor.



**Mathematics 25b. Honors Multivariable Calculus and Linear Algebra**

Catalog Number: 1590

*Elizabeth Denne*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

A continuation of Mathematics 25a. More advanced topics, such as Fourier analysis, differential forms, and differential geometry, will be introduced as time permits.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 25a or permission of instructor.

**\*Mathematics 55a. Honors Advanced Calculus and Linear Algebra**

Catalog Number: 4068

*Noam D. Elkies*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

A rigorous treatment of metric and general topology, linear and multi-linear algebra, differential and integral calculus.

*Note:* Mathematics 55a is an intense course for students having significant experience with abstract mathematics. Instructor's permission required. Every effort will be made to accommodate students uncertain of whether the course is appropriate for them; in particular, Mathematics 55a and 25a will be closely coordinated for the first three weeks of instruction. Students can switch between the two courses during the first three weeks without penalty. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

**Mathematics 55b. Honors Advanced Calculus and Linear Algebra**

Catalog Number: 3312

*Yum Tong Siu*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Continuation of Mathematics 55a. Calculus of functions of several variables. More advanced topics selected from functional analysis, Fourier analysis, differential equations, and differential geometry.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 55a or permission of instructor.

**\*Mathematics 60r. Reading Course for Senior Honors Candidates**

Catalog Number: 8500

*Peter B. Kronheimer*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced reading in topics not covered in courses.

*Note:* Limited to candidates for honors in Mathematics who obtain the permission of both the faculty member under whom they want to work and the Director of Undergraduate Studies. May not count for concentration in Mathematics without special permission from the Director of Undergraduate Studies. Graded Sat/Unsat only.



**\*Mathematics 91r. Supervised Reading and Research**

Catalog Number: 2165

*Peter B. Kronheimer*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Programs of directed study supervised by a person approved by the Department.

*Note:* May not ordinarily count for concentration in Mathematics.

**\*Mathematics 99r. Tutorial**

Catalog Number: 6024

*Peter B. Kronheimer and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Topics for 2005-06: Holomorphic Vector Bundles on Algebraic Curves (fall), prerequisite: basic complex analysis and elementary ideas from differential geometry. (2) Binary Quadratic Forms (fall), prerequisite: complex analysis (Math 113) and algebra (Math 122, 123). (3) Height Functions in Arithmetic Geometry (spring), prerequisite: Math 122, 123, and basic algebraic number theory. (4) Sphere Packings (spring), prerequisite: Math 112.

*Note:* May be repeated for course credit with permission from the Director of Undergraduate Studies. Only one tutorial may count for concentration credit.

***For Undergraduates and Graduates***

See also Applied Mathematics and Statistics.

**Mathematics 101. Sets, Groups and Topology**

Catalog Number: 8066

*Curtis T. McMullen*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

An introduction to rigorous mathematics, axioms, and proofs, via topics such as set theory, symmetry groups, and low-dimensional topology.

*Note:* Familiarity with algebra, geometry and/or calculus is desirable. Students who have already taken Mathematics 25a,b or 55a,b should not take this course for credit.

*Prerequisite:* An interest in mathematical reasoning.

**Mathematics 106. Ordinary Differential Equations**

Catalog Number: 3377

*Thomas W. Judson*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Analytic, numerical, and qualitative analysis of ordinary differential equations. Linear equations, linear and non-linear systems. Applications to mechanics, biology, physics, and the social sciences. Existence and uniqueness of solutions and visual analysis using computer graphics.

Topics selected from Laplace transforms, power series solutions, chaos, and numerical solutions.

*Prerequisite:* Mathematics 19, 20 or 21a.

**Mathematics 112. Real Analysis**

Catalog Number: 1123

*Robert M. Strain*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*



An introduction to mathematical analysis and the theory behind calculus. An emphasis on learning to understand and construct proofs. Covers limits and continuity in metric spaces, uniform convergence and spaces of functions, the Riemann integral, sets of measure zero and conditions for integrability.

*Prerequisite:* Mathematics 21a,b or 23a,b, and either an ability to write proofs or concurrent enrollment in Mathematics 101. Should not ordinarily be taken in addition to Mathematics 25a,b or 55a,b.

### **Mathematics 113. Complex Analysis**

Catalog Number: 0405

*Andreea C. Nicoara*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Analytic functions of one complex variable: power series expansions, contour integrals, Cauchy's theorem, Laurent series and the residue theorem. Some applications to real analysis, including the evaluation of indefinite integrals. An introduction to some special functions.

*Prerequisite:* Mathematics 23a,b, 25a,b, or 101. Students with an A grade in Mathematics 21a,b may also consider taking this course, but must understand proofs.

### **Mathematics 115. Methods of Analysis and Applications**

Catalog Number: 1871

*Joachim Krieger*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Some complex function theory; Fourier analysis; Hilbert spaces and operators; Laplace's equations; Bessel and Legendre functions; symmetries; and Sturm-Liouville theory.

*Note:* Mathematics 115 is especially for students interested in physics.

*Prerequisite:* Mathematics 21a,b, 23a,b, or 25a,b, and permission of instructor.

### **[Mathematics 116. Convexity and Optimization with Applications]**

Catalog Number: 5253

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*Half course (spring term). Hours to be arranged.*

Introduction to real and functional analysis through topics such as convex programming, duality theory, linear and non-linear programming, calculus of variations, and the maximum principle of optimal control theory.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* At least one course beyond Mathematics 21.

### **Mathematics 117. Topics in Analysis**

Catalog Number: 0630

*Hong-Tzer Yau*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Sobolev space and logarithmic Sobolev inequalities. Schrodinger equation and semiclassical limit. Introduction to Bose-Einstein condensation and nonlinear Schrodinger equation.

*Prerequisite:* Math 112 or permission of the instructor.

**[Mathematics 118r. Dynamical Systems]**

Catalog Number: 6402

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*Half course (spring term). Hours to be arranged.*

A mathematical introduction to nonlinear dynamical system theory and its applications. Topics include concepts on the iteration of maps and the integration of flows, bifurcation theory, the role of equilibrium points, invariant manifolds, and attractors. Applications include examples from celestial mechanics, geometry or statistical mechanics or number theory. Computer demonstrations in class are used to visualize and understand the concepts and will encourage experimentation.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Multi-variable calculus as well as linear algebra.

**Mathematics 119. Partial Differential Equations and Applications**

Catalog Number: 7326

*Robert M. Strain**Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Partial differential equations with constant coefficients, hyperbolic elliptic, and parabolic equations, Fourier analysis, Green's function.

*Prerequisite:* Familiarity with functions of a complex variable.

**Mathematics 121. Linear Algebra and Applications**

Catalog Number: 7009

*Joachim Krieger**Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Real and complex vector spaces, dual spaces, linear transformations and Jordan normal forms. Inner product spaces. Applications to differential equations, classical mechanics, and optimization theory. Emphasizes learning to understand and write proofs.

*Prerequisite:* Mathematics 21a,b or equivalent. Should not ordinarily be taken in addition to Mathematics 23a,b, 25a,b, or 55a,b.

**Mathematics 122. Abstract Algebra I: Theory of Groups and Vector Spaces**

Catalog Number: 7855

*Benedict H. Gross**Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Algebra is the language of modern mathematics. Provides an introduction to this language, through the study of groups and group actions, vector spaces and their linear transformations, and some general theory of rings and fields.

*Prerequisite:* Mathematics 21b, or the equivalent training in matrices and linear algebra.

**Mathematics 123. Abstract Algebra II: Theory of Rings and Fields**

Catalog Number: 5613

*Véronique Godin**Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Bilinear forms and group representations. Field extensions and the basic theorems of Galois



theory. Structure theorems for modules.

*Prerequisite:* Mathematics 122.

### **Mathematics 124. Number Theory**

Catalog Number: 2398

*Véronique Godin*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Factorization and the primes; congruences; quadratic residues and reciprocity; continued fractions and approximations; Pell's equation; selected Diophantine equations; theory of integral quadratic forms.

*Prerequisite:* Mathematics 122 (which may be taken concurrently) or equivalent.

### **Mathematics 126. Representation Theory and Applications**

Catalog Number: 0369

*Wilfried Schmid*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Representation theory of finite groups including character theory, induced representations, Frobenius reciprocity, and interesting applications.

### **[Mathematics 128. Lie Algebras]**

Catalog Number: 6519

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*Half course (spring term). Hours to be arranged.*

Definition of Lie algebras, examples, Poincare-Birkhoff-Witt theorem, Levy decomposition.

Semi-simple algebras, their classification and finite-dimensional representations, Verma modules, and Weyl character formula.

*Note:* Expected to be given in 2006–07.

### **Mathematics 129. Topics in Number Theory**

Catalog Number: 2345

*Benedict H. Gross*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Algebraic number theory: number fields, unique factorization of ideals, finiteness of class group, structure of unit group, Frobenius elements, local fields, ramification, weak approximation, adeles, and ideles.

*Prerequisite:* Mathematics 122 and 123.

### **Mathematics 131. Topology**

Catalog Number: 2381

*Tom Coates*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Basic notions of point set topology such as continuity, compactness, metrizability. Algebraic topology including fundamental groups, covering spaces, and higher homotopy groups.

*Prerequisite:* Some acquaintance with metric space topology (Mathematics 25a,b, 55a,b, 101, or 112) and with groups (Mathematics 101 or 122).





**[Mathematics 134. Calculus on Manifolds]**

Catalog Number: 7150

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*Half course (fall term). Hours to be arranged.*

Generalization of multivariable calculus to the setting of manifolds in real  $n$ -space, as used in the study of global analysis and geometry. Differentiable mappings of linear spaces, the inverse and implicit function theorems, differential forms, integration on manifolds, the general version of Stokes's theorem, integral geometry, applications.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics 21a,b and familiarity with proofs as in Mathematics 101, 112, 121, or the equivalent.

**Mathematics 135. Differential Topology**

Catalog Number: 2107

*Eaman Eftekhary*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Smooth manifolds, intersection theory, vector fields, Hopf degree theorem, Euler characteristic, De Rham theory.

*Prerequisite:* Mathematics 23a,b, 25a,b, 55a,b, or 134.

**Mathematics 136. Differential Geometry**

Catalog Number: 1949

*Ilia Zharkov*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Curves and surfaces in 3-space: curvature and its intrinsic meaning, Gauss-Bonnet theorem, surfaces of constant curvature, introduction to Riemannian geometry with applications in dimension two.

*Prerequisite:* Mathematics 21a,b and familiarity with proofs as in Mathematics 101, 112, 121, or equivalent.

**Mathematics 137. Algebraic Geometry**

Catalog Number: 0556

*Shing-Tung Yau*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

Affine and projective spaces, plane curves, Bezout's theorem, singularities and genus of a plane curve, Riemann-Roch theorem.

*Prerequisite:* Mathematics 122, 123.

**Mathematics 138. Classical Geometry**

Catalog Number: 0162

*Paul G. Bamberg*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

An exploration of the many different flavors of plane geometry. The course begins with finite geometry, then surveys the nine possible Cayley-Klein plane geometries, focusing on Euclidean geometry, the Galilean geometry of uniform motion, spherical and elliptic geometry, and geometries related to relativistic physics such as Minkowskian geometry and hyperbolic



geometry. An important tool in the study of these geometries is a study of their symmetry groups.

*Prerequisite:* Mathematics 21a and 21b (may be taken concurrently), or Mathematics 23a, 25a, or 55a.

### **Mathematics 139x. Topics in Symplectic Geometry**

Catalog Number: 0911

*Shlomo Z. Sternberg*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to symplectic geometry which lies at the heart of Hamiltonian mechanics and has recent applications to topology.

*Prerequisite:* Solid background in linear algebra and multivariable calculus.

### **Mathematics 141. Introduction to Mathematical Logic**

Catalog Number: 0600

*Gerald E. Sacks*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to mathematical logic with applications to computer science and algebra. Formal languages. Completeness and compactness of first order logic. Definability and interpolation. Decidability. Unsolvable problems. Computable functions and Turing machines. Recursively enumerable sets. Transfinite induction.

*Prerequisite:* Any mathematics course at the level of Mathematics 21a,b or higher, or permission of instructor.

### **Mathematics 143. Set Theory**

Catalog Number: 6005

*Gerald E. Sacks*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Axioms of set theory. Gödel's constructible universe. Consistency of the axiom of choice and of the generalized continuum hypothesis. Cohen's forcing method. Independence of the AC and GCH.

*Prerequisite:* Any mathematics course at the level of 21a or higher, or permission of instructor.

### **[Mathematics 144. Model Theory and Algebra]**

Catalog Number: 0690

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*Half course (spring term). Hours to be arranged.*

An introduction to model theory with applications to fields and groups. First order languages, structures, and definable sets. Compactness, completeness, and back-and-forth constructions. Quantifier elimination for algebraically closed, differentially closed, and real closed fields. Omitting types, prime extensions, existence and uniqueness of the differential closure, saturation, and homogeneity. Forking, independence, and rank.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics 123 or the equivalent is suggested as a prerequisite, but not required.

**Mathematics 152 (formerly Mathematics 102). Methods of Discrete Mathematics**

Catalog Number: 8389

*Paul G. Bamberg**Half course (fall term). Section I: Tu., Th., 1–2:30; Section II: Tu., Th., 2:30–4. EXAM GROUP: 15, 16*

An introduction to finite groups, finite fields, finite geometry, discrete probability, and graph theory. A unifying theme of the course is the symmetry group of the regular icosahedron, whose elements can be realized as permutations, as linear transformations of vector spaces over finite fields, as collineations of a finite plane, or as vertices of a graph. Taught in a seminar format, and students will gain experience in presenting proofs at the blackboard.

*Note:* Students who have taken Mathematics 25ab or 55ab should not take this course for credit.

*Prerequisite:* Mathematics 21b or equivalent.

**Mathematics 153. Mathematical Biology-Evolutionary Dynamics**

Catalog Number: 3004 Enrollment: Limited to 30.

*Martin A. Nowak**Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Introduces basic concepts of mathematical biology and evolutionary dynamics: evolution of genomes, quasi-species, finite and infinite population dynamics, chaos, game dynamics, evolution of cooperation and language, spatial models, evolutionary graph theory, infection dynamics, somatic evolution of cancer.

*Note:* Limited to seniors and graduate students.

*Prerequisite:* Mathematics 21a and b, Biological Sciences 50 and 53 or equivalent.

**Mathematics 191. Mathematical Probability**

Catalog Number: 4306

*Paul G. Bamberg**Half course (spring term). Tu., Th., 4–5:30. EXAM GROUP: 18*

An introduction to probability theory. Discrete and continuous random variables; distribution and density functions for one and two random variables; conditional probability. Generating functions, weak and strong laws of large numbers, and the central limit theorem. Geometrical probability. Elements of random processes: the Poisson process, random walks, and Markov chains.

*Prerequisite:* Any mathematics course at the level of Mathematics 19, or 21a, b or higher, or knowledge of multivariable calculus as demonstrated on the online placement test.

**Mathematics 192r. Algebraic Combinatorics**

Catalog Number: 6612

*Thomas Lam**Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

An introduction to the relation between algebra and combinatorics. Topics include generating functions, partially ordered sets and mobius functions, partitions and tableaux theory, and algebraic graph theory.

*Note:* No prior knowledge of combinatorics is assumed, but familiarity with linear algebra will be helpful.



**Mathematics 194. Combinatorial Game Theory**

Catalog Number: 0658

*Jacob Lurie*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

An introduction to the theory of combinatorial games (games of no chance and perfect information). Topics: the arithmetic of games, structure theory for impartial games, surreal numbers, temperature theory for finite games, and Norton's analysis of "all small" games via the atomic weight calculus.

*Prerequisite:* Mathematics 123 or equivalent.

***Cross-listed Courses***

**Applied Mathematics 105a. Complex and Fourier Analysis**

**Applied Mathematics 105b. Ordinary and Partial Differential Equations**

**Applied Mathematics 107. Graph Theory and Combinatorics**

**\*Freshman Seminar 21u. Calculating Pi**

**\*Freshman Seminar 23j. Chess and Mathematics**

**Philosophy 144. Logic and Philosophy**

***Primarily for Graduates***

**Mathematics 212a. Functions of a Real Variable**

Catalog Number: 5446

*Shlomo Z. Sternberg*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A review of measure and integration. Hilbert and Banach spaces,  $L^p$  spaces, and the Riesz representation theorem.

*Prerequisite:* Experience with courses involving rigorous proofs: e.g. Mathematics 25a, b, 121, 122.

**Mathematics 212b. Advanced Real Analysis**

Catalog Number: 7294

*Curtis T. McMullen*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Continuation of Mathematics 212a. Functional analysis and applications. Topics may include distributions, elliptic regularity, spectral theory, operator algebras, unitary representations, and ergodic theory.

*Prerequisite:* Mathematics 212a and 213a.

**Mathematics 213a. Functions of One Complex Variable**

Catalog Number: 1621

*Wilfried Schmid*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Review of basic complex analysis. Further topics will include series and product developments, uniformization, and special functions.

*Prerequisite:* Basic complex analysis or ability to learn quickly.



### **Mathematics 213b. Further Topics in Classical Complex Analysis**

Catalog Number: 2641

*Wilfried Schmid*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Compact Riemann surfaces, Riemann-Roch theorem, and introduction to the theory of modular forms.

*Prerequisite:* Mathematics 213a and previous or concurrent enrollment in 212a and b preferred.

### **Mathematics 214x. Geometric Analysis**

Catalog Number: 0926

*Yum Tong Siu*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

A study of major techniques of estimates in partial differential equations which have been developed for global problems in Riemannian geometry, Kaehler geometry, Yang-Mills theory, Cauchy-Riemann geometry, and the complex Neumann problem.

### **Mathematics 230ar. Differential Geometry**

Catalog Number: 0372

*Peter B. Kronheimer*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Elements of differential geometry: Riemannian geometry, symplectic and Kaehler geometry, Geodesics, Riemann curvature, Darboux's theorem, moment maps and symplectic quotients, complex and Kaehler manifolds, Dolbeault and de Rham cohomology.

### **Mathematics 230br. Differential Geometry**

Catalog Number: 0504

*Peter B. Kronheimer*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

A continuation of Mathematics 230ar. Topics in global Riemannian geometry: Ricci curvature and volume comparison; sectional curvature and distance comparison; Toponogov's theorem and applications; sphere theorems; Gromov's betti number bounds; Gromov-Hausdorff convergence; Cheeger's finiteness theorem, and convergence theorems.

*Prerequisite:* Mathematics 135.

### **Mathematics 233. General Relativity**

Catalog Number: 0676

*Shing-Tung Yau*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Descriptions of topology and geometry of space time within the frameworks of general relativity. A discussion of the problems of defining conserved quantities of general relativity that are important to both physical and geometric considerations. Discussion of evolutions of the Einstein equation.

### **Mathematics 234. Evolutionary Dynamics**

Catalog Number: 8136

*Martin A. Nowak*



*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Advanced topics of evolutionary dynamics. Seminars and research projects.

*Prerequisite:* Experience with mathematical biology at the level of Mathematics 153.

### **Mathematics 235. Minimal Surfaces**

Catalog Number: 0677

*Shing-Tung Yau*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

Discussions of classical minimal surfaces in Euclidean space and their constructions through variational means and also through mean curvature flow. A discussion of special Lagrangian minimal submanifolds that are important for Calabi Yau manifolds.

### **Mathematics 250. Higher Algebra**

Catalog Number: 9334

*Barry C. Mazur*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

Focuses on Galois theory and a small amount of representation theory of finite groups. A study of the important applications of this material to number theory, and the study of algebraic curves.

*Prerequisite:* Mathematics 123 or equivalent.

### **[Mathematics 251a. Algebraic Number Theory]**

Catalog Number: 1703

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*Half course (fall term). Hours to be arranged.*

A graduate introduction to algebraic number theory. Topics: local fields, Galois cohomology, local class field theory, and local duality.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics 123 or 250 and permission of instructor.

### **[Mathematics 251b. Algebraic Number Theory]**

Catalog Number: 7441

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*Half course (spring term). Hours to be arranged.*

Continuation of Mathematics 251a. Topics: global fields, adeles, class field theory, and duality.

Other topics may include: Tate's thesis, cyclotomic fields, or Euler systems.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Mathematics 251a or permission of instructor.

### **Mathematics 254z. Current Results in Modular Forms**

Catalog Number: 0941

*Barry C. Mazur*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

A study of the background material necessary for the comprehension of some recent results in the theory of modular and automorphic forms, and specifically p-adic modular forms. The course will involve substantial student presentations.



**Mathematics 255y. A Concrete Approach to p-adic Forms**

Catalog Number: 3603

*Kevin Buzzard (Imperial College)*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Brief introduction to classical and overconvergent modular forms. How parts of the Coleman-Mazur eigencurve can be “computed.” The Gouvea-Mazur conjectures. Eigencurves at the centre and boundary of weight space. Concrete accessible open problems.

**Mathematics 260a. Introduction to Algebraic Geometry**

Catalog Number: 7004

*Yum Tong Siu*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduction to complex algebraic curves, surfaces, and varieties.

*Prerequisite:* Mathematics 250.

**Mathematics 260b. Introduction to Algebraic Geometry**

Catalog Number: 2745

*Joseph D. Harris*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Continuation of 260a: Introduction to the theory of coherent sheaves, schemes, and sheaf cohomology, with examples and applications.

**Mathematics 261a. Theory of Schemes**

Catalog Number: 0947

*Francesco Calegari*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

An introduction to the theory and language of schemes. We will follow closely Chapters II and III of Hartshorne’s book *Algebraic Geometry*.

*Note:* Weekly homework will constitute an important part of the course.

*Prerequisite:* Mathematics 137 and 250 or permission of instructor.

**Mathematics 261b. Theory of Schemes**

Catalog Number: 0956

*Samit Dasgupta*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

Continuation of Mathematics 261a.

**Mathematics 267y. Geometric Representation Theory**

Catalog Number: 0996

*Dennis Gaitsgory*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Category  $\mathcal{O}$ , Beilinson-Bernstein localization, Kac-Moody algebras, affine Grassmannian and Langland’s duality.

*Prerequisite:* Algebraic geometry, basics of D-modules, basics of semi-simple groups and Lie algebras.





**Mathematics 271x. Manifolds of Special Holonomy**

Catalog Number: 1007

*Ilia Zharkov*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Berger’s classification of holonomy: Kahler, hyper-Kahler, Calabi-Yau manifolds. Calabi conjecture and Yau’s proof. ALE metrics. Examples of  $G_2$  and  $\text{Spin}(7)$  manifolds. Calibrated submanifolds.

**Mathematics 272a. Introduction to Algebraic Topology**

Catalog Number: 1666

*Joseph D. Harris*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Covering spaces and fibrations. Simplicial and CW complexes. Homology and cohomology, universal coefficients and Künneth formulas. Hurewicz theorem. Manifolds and Poincaré duality.

*Prerequisite:* Mathematics 131 or permission of instructor.

**Mathematics 272b. Introduction to Algebraic Topology**

Catalog Number: 6502

*Eaman Eftekhary*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Spectral sequences and techniques of computation. Vector bundles and characteristic classes. Bott periodicity. K-theory, cobordism and stable cohomotopy as examples of cohomology theories.

*Prerequisite:* Mathematics 272a.

**Mathematics 274x. Heegaard Floer Homology**

Catalog Number: 1018

*Eaman Eftekhary*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Heegaard diagrams for three and four dimensional manifolds, Heegaard Floer homology as the Floer homology of the symmetric product and as an example of symplectic field theory, exact triangles, computations, applications to knot theory.

**Mathematics 277y. Topics in Homotopy Theory**

Catalog Number: 1021

*Michael J. Hopkins*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

An investigation of several topics in “string topology” including the recent work of Galatius-Madsen-Tillmann-Weiss on the stable mapping class group, recent work of Sullivan on BV structures and the master equation.

**Mathematics 278y. Algebraic Topology Literature**

Catalog Number: 1038 Enrollment: Limited to 8.

*Michael J. Hopkins*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*



A literature course in advanced topics in algebraic topology. Material will be taken from research papers, both classical and contemporary, and the presentation will involve significant participation from the students.

*Note:* Enrollment limited, please contact the professor before registering.

### ***Graduate Courses of Reading and Research***

#### **\*Mathematics 301. Theory and Practice of Teaching in the Mathematical Sciences**

Catalog Number: 4344

*Daniel L. Goroff 7683 (on leave 2005-06)*

#### **\*Mathematics 304. Topics in Algebraic Topology**

Catalog Number: 0689

*Michael J. Hopkins 4376*

#### **\*Mathematics 307. Topics in Differential Geometry and Partial Differential Equations**

Catalog Number: 5133

*Benjamin Weinkove 4942 (on leave 2005-06)*

#### **\*Mathematics 308. Topics in Number Theory and Modular Forms**

Catalog Number: 0464

*Benedict H. Gross 1112*

#### **\*Mathematics 309. Topics in Dynamical Systems Theory**

Catalog Number: 0552

*Daniel L. Goroff 7683 (on leave 2005-06)*

#### **\*Mathematics 310. Topics in Number Theory**

Catalog Number: 3874

*Samit Dasgupta 5030*

#### **\*Mathematics 314. Topics in Differential Geometry and Mathematical Physics**

Catalog Number: 2743

*Shlomo Z. Sternberg 1965 (on leave spring term)*

#### **\*Mathematics 318. Topics in Number Theory**

Catalog Number: 7393

*Barry C. Mazur 1975*

#### **\*Mathematics 321. Topics in Mathematical Physics**

Catalog Number: 2297

*Arthur M. Jaffe 2095*

#### **\*Mathematics 326. Topics in Arithmetic Geometry of Modular Curves and Shimura Curves**



Catalog Number: 2696

*David Helm 4630 (on leave 2005-06)*

**\*Mathematics 327. Topics in Several Complex Variables**

Catalog Number: 0409

*Yum Tong Siu 7550*

**\*Mathematics 328. Topics in Lie Algebra**

Catalog Number: 7003

*Alberto De Sole 4627*

**\*Mathematics 329. Topics in Knot Theory**

Catalog Number: 2194

*Elizabeth Denne 5031*

**\*Mathematics 333. Topics in Complex Analysis, Dynamics and Geometry**

Catalog Number: 9401

*Curtis T. McMullen 3588*

**\*Mathematics 335. Topics in Differential Geometry and Analysis**

Catalog Number: 5498

*Clifford Taubes 1243*

**\*Mathematics 342. Topics in Combinatorics**

Catalog Number: 0751

*Thomas Lam 5322*

**\*Mathematics 344. Topics in Number Theory**

Catalog Number: 2526

*Francesco Calegari 4435*

**\*Mathematics 345. Topics in Geometry and Topology**

Catalog Number: 4108

*Peter B. Kronheimer 1759*

**\*Mathematics 346y. Topics in Analysis: Quantum Dynamics**

Catalog Number: 1053

*Horng-Tzer Yau 5260*

**\*Mathematics 347. Topics in Floer Homology and Low Dimensional Topology**

Catalog Number: 7227

*Eaman Eftekhar 5045*

**\*Mathematics 350. Topics in Mathematical Logic**

Catalog Number: 5151

*Gerald E. Sacks 3862*



**\*Mathematics 351. Topics in Algebraic Number Theory**

Catalog Number: 3492  
*Richard L. Taylor 1453*

**\*Mathematics 356. Topics in Harmonic Analysis**

Catalog Number: 6534  
*Wilfried Schmid 5097*

**\*Mathematics 365. Topics in Differential Geometry**

Catalog Number: 4647  
*Shing-Tung Yau 1734*

**\*Mathematics 371. Topics in Partial Differential Equations and Mathematical Physics**

Catalog Number: 0777  
*Robert M. Strain 5323*

**\*Mathematics 376. Topics in Analysis of Partial Differential Equations**

Catalog Number: 1023  
*Joachim Krieger 4632*

**\*Mathematics 381. Introduction to Geometric Representation Theory**

Catalog Number: 0800  
*Dennis Gaitsgory 5259*

**\*Mathematics 382. Topics in Algebraic Geometry**

Catalog Number: 2037  
*Joseph D. Harris 2055*

**\*Mathematics 383. Topics in Algebraic Geometry**

Catalog Number: 7736  
*Ilia Zharkov 4631*

**\*Mathematics 386. Topics in Several Complex Variables and CR Geometry**

Catalog Number: 3746  
*Andreea C. Nicoara 4374*

**\*Mathematics 388. Topics in Mathematics and Biology**

Catalog Number: 4687  
*Martin A. Nowak 4568*

**\*Mathematics 389. Topics in Number Theory**

Catalog Number: 6851  
*Noam D. Elkies 2604*



**\*Mathematics 392. Topics in Geometry**

Catalog Number: 8778

*Tom Coates 4633 (on leave spring term)*

**\*Mathematics 398. Topics in Algebraic and Geometric Topology**

Catalog Number: 0863

*Véronique Godin 5311*

## Medical Sciences

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

***Faculty of the Committee on Higher Degrees in Medical Sciences***

Thomas M. Roberts, Professor of Pathology and Dean of the Division of Medical Sciences  
(*Medical School*) (*Chair*)

Nancy Andrews, Leland Fikes Professor of Pediatrics (*Medical School*)

Michael C. Carroll, Professor of Pediatrics (*Medical School*)

Susan M. Dymecki, Associate Professor of Genetics (*Medical School*)

Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental  
Biology (*on leave fall term*)

Thomas O. Fox, Associate Professor of Neuroscience (*Medical School*) (*ex officio*)

Edward E. Harlow, Professor of Biological Chemistry and Molecular Pharmacology (*Medical  
School*)

Stephen C. Harrison, Professor of Biological Chemistry and Molecular Pharmacology and of  
Pediatrics (*Medical School*)

Peter M. Howley, Shattuck Professor of Pathological Anatomy (*Medical School*)

Robert E. Kingston, Professor of Genetics (*Medical School*)

David M. Knipe, Higgins Professor of Microbiology and Molecular Genetics (*Medical School*)

Philip Leder, John Emory Andrus Professor of Genetics (*Medical School*)

Rosalind A. Segal, Associate Professor of Neurobiology (*Medical School*)

Michael Starnbach, Associate Professor of Microbiology and Molecular Genetics (*Medical  
School*)

Christopher A. Walsh, Bullard Professor of Neurology (*Medical School*)

Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular  
Pharmacology (*Medical School*)

Gary I. Yellen, Professor of Neurobiology (*Medical School*)



***Other Faculty Offering Instruction in the Division of Medical Sciences***

Kami Ahmad, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Koichi Akashi, Associate Professor of Pathology (*Medical School*)  
 Chester Alper, Professor of Pediatrics (*Medical School*)  
 Frederick W. Alt, Charles A. Janeway Professor of Pediatrics and Professor of Genetics (*Medical School*)  
 David M. Altshuler, Associate Professor of Genetics and of Medicine (*Medical School*)  
 Paul J. Anderson, K. Frank Austen Professor of Medicine (*Medical School*)  
 Jonathan P. Arm, Associate Professor of Medicine (*Medical School*)  
 Scott A. Armstrong, Assistant Professor of Pediatrics (*Medical School*)  
 Spyros Artavanis-Tsakonas, Kurt J. Isselbacher/Peter D. Schwartz Professor of Cell Biology (*Medical School*)  
 John A. Assad, Associate Professor of Neurobiology (*Medical School*)  
 Hugh Auchincloss, Professor of Surgery (*Medical School*)  
 Dennis A. Ausiello, Jackson Professor of Clinical Medicine (*Medical School*)  
 K. Frank Austen, Astrazeneca Professor of Respiratory and Inflammatory Diseases (*Medical School*)  
 Frederick Ausubel, Professor of Genetics (*Medical School*)  
 Tomer Avidor-Reiss, Assistant Professor of Cell Biology (*Medical School*)  
 Hamid Band, Associate Professor of Medicine (*Medical School*)  
 Bruce P. Bean, Professor of Neurobiology (*Medical School*)  
 Jonathan R. Beckwith, American Cancer Society Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Alan H. Beggs, Associate Professor of Pediatrics (*Medical School*)  
 Samuel M. Behar, Assistant Professor of Medicine (*Medical School*)  
 David R. Beier, Associate Professor of Medicine (*Medical School*)  
 Welcome W. Bender, Harold T. White Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Francine M. Benes, Professor of Psychiatry (*Medical School*)  
 Gilles A. Benichou, Associate Professor of Ophthalmology (*Medical School*)  
 Thomas L. Benjamin, Virginia and D.K. Ludwig Professor of Cancer Research and Teaching (*Medical School*)  
 Christophe O. Benoist, Professor of Medicine (*Medical School*)  
 Larry I. Benowitz, Associate Professor of Neurosurgery (*Medical School*)  
 Jack Bergman, Associate Professor of Psychobiology (*Medical School*)  
 Stephen C. Blacklow, Associate Professor of Pathology (*Medical School*)  
 T. Keith Blackwell, Associate Professor of Pathology (*Medical School*)  
 John Blenis, Professor of Cell Biology (*Medical School*)  
 Richard S. Blumberg, Associate Professor of Medicine (*Medical School*)  
 Vadim Bolshakov, Associate Professor of Psychiatry (*Medical School*)  
 Azad Bonni, Assistant Professor of Pathology (*Medical School*)  
 Richard T. Born, Associate Professor of Neurobiology (*Medical School*)  
 Xandra O. Breakefield, Professor of Neurology (*Medical School*)  
 Michael B. Brenner, Theodore Bevier Bayles Professor of Medicine (*Medical School*)



Dennis Brown, Professor of Medicine (*Medical School*)  
 Emery N. Brown, Associate Professor of Anaesthesia (*Medical School*)  
 Myles A. Brown, Associate Professor of Medicine (*Medical School*)  
 Robert H. Brown, Professor of Neurology (*Medical School*)  
 Joan S. Brugge, Professor of Cell Biology (*Medical School*)  
 Martha L. Bulyk, Assistant Professor of Medicine and Health Sciences and Technology and  
 Assistant Professor of Pathology (*Medical School*)  
 Stephen Buratowski, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Rami Burstein, Associate Professor of Anaesthesia (*Medical School*)  
 Stephen B. Calderwood, Professor of Medicine (*Medical School*)  
 James J. Campbell, Assistant Professor of Pathology (*Medical School*)  
 Lewis C. Cantley, Professor of Medicine and Professor of Systems Biology (*Medical School*)  
 Alan B. Cantor, Assistant Professor of Pediatrics (*Medical School*)  
 Harvey Cantor, Professor of Pathology (*Medical School*)  
 William A. Carlezon, Associate Professor of Psychiatry (*Medical School*)  
 Charles B. Carpenter, Professor of Medicine (*Medical School*)  
 Constance L. Cepko, Professor of Genetics (*Medical School*)  
 Chnfei Chen, Assistant Professor of Neurology (*Medical School*)  
 Dong Feng Chen, Assistant Professor of Ophthalmology (*Medical School*)  
 Lynda Chin, Associate Professor of Dermatology (*Medical School*)  
 James J. Chou, Assistant Professor of Biological Chemistry and Molecular Pharmacology  
 (*Medical School*)  
 George M. Church, Professor of Genetics (*Medical School*)  
 Karen M. Cichowski, Assistant Professor of Medicine (*Medical School*)  
 David E. Clapham, Arlo R. Castaneda Professor of Cardiovascular Research (*Medical School*)  
 Jon Clardy, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Donald M. Coen, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Jonathan B. Cohen, Professor of Neurobiology (*Medical School*)  
 Monica P. Colaiacovo, Assistant Professor of Genetics (*Medical School*)  
 R. John Collier, Maude and Lillian Presley Professor of Microbiology and Molecular Genetics  
 (*Medical School*)  
 Tucker Collins, S. Burt Wolbach Professor of Pathology (*Medical School*)  
 David P. Corey, Professor of Neurobiology (*Medical School*)  
 Gabriel Corfas, Associate Professor of Neurology (*Medical School*)  
 Douglas Allen Cotanche, Associate Professor of Otolaryngology and Laryngology (*Medical School*)  
 Clyde S. Crumpacker II, Professor of Medicine (*Medical School*)  
 James M. Cunningham, Associate Professor of Medicine (*Medical School*)  
 Charles A. Czeisler, Frank Baldino, Jr., PhD, Professor of Sleep Medicine (*Medical School*)  
 Patricia A. D'Amore, Professor of Ophthalmology (*Medical School*)  
 Alan D. D'Andrea, Alvan T. and Viola D. Fuller American Cancer Society Professor of  
 Radiation Oncology (*Medical School*)  
 George Quentin Daley, Associate Professor of Biological Chemistry and Molecular  
 Pharmacology and Associate Professor of Pediatrics (*Medical School*)  
 James A. DeCaprio, Associate Professor of Medicine (*Medical School*)





Ronald A. DePinho, Professor of Medicine (*Medical School*)  
Ronald C. Desrosiers, Professor of Microbiology and Molecular Genetics (*Medical School*)  
William F. Dietrich, Associate Professor of Genetics (*Medical School*)  
Martin E. Dorf, Professor of Pathology (*Medical School*)  
Philip R. Dormitzer, Assistant Professor of Pediatrics (*Medical School*)  
Simon L. Dove, Assistant Professor of Pediatrics (*Medical School*)  
John E. Dowling, Gordon and Llura Gund Professorship of Neurosciences (*FAS*) and Professor of Ophthalmology (*Medical School*)  
Glenn Dranoff, Associate Professor of Medicine (*Medical School*)  
Iain A. Drummond, Assistant Professor of Medicine (*Medical School*)  
Catherine Dulac, Professor of Molecular and Cellular Biology  
Susan M. Dymecki, Associate Professor of Genetics (*Medical School*)  
Nicholas J. Dyson, Professor of Medicine (*Medical School*)  
Michael J. Eck, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Elaine A. Elion, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Stephen Elledge, Gregor Mendel Professor of Genetics and of Medicine (*Medical School*)  
Thomas E. Ellenberger, Hsien Wu and Daisy Yen Wu Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Joel K. Elmquist, Associate Professor of Medicine and Associate Professor of Neurology (*Medical School*)  
Alan N. Engelman, Associate Professor of Pathology (*Medical School*)  
Florian Engert, Assistant Professor of Molecular and Cellular Biology  
Elizabeth C. Engle, Associate Professor of Neurology (*Medical School*)  
Myron E. Essex, John Laporte Given Professor of Infectious Diseases (*Public Health*)  
David T. Evans, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
R. Alan Ezekowitz, Charles Wilder Professor of Pediatrics (*Medical School*)  
Michael R. Farzan, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
Mel B. Feany, Assistant Professor of Pathology (*Medical School*)  
Daniel D. Fiederman, Carl W. Walter Distinguished Professor of Medicine and Medical Education (*Medical School*)  
Joyce D. Fingerhuth, Associate Professor of Medicine (*Medical School*)  
Daniel Finley, Professor of Cell Biology (*Medical School*)  
David E. Fisher, Professor of Pediatrics (*Medical School*)  
John G. Flanagan, Professor of Cell Biology (*Medical School*)  
Mark Daniel Fleming, Assistant Professor of Pathology (*Medical School*)  
Dan G. Fraenkel, Professor of Microbiology and Molecular Genetics (*Medical School*)  
David A. Frank, Assistant Professor of Medicine (*Medical School*)  
Michael R. Freeman, Associate Professor of Surgery (*Medical School*)  
Matthew P. Frosch, Assistant Professor of Pathology (*Medical School*)  
Barbara C. Furie, Professor of Medicine (*Medical School*)  
Bruce Furie, Professor of Medicine (*Medical School*)  
Dana Gabuzda, Associate Professor of Neurology (*Medical School*)  
Guillermo Garcia-Cardena, Assistant Professor of Pathology (*Medical School*)



Raif S. Geha, James L. Gamble Professor of Pediatrics (*Medical School*)  
 Lee Gehrke, Professor of Health Sciences and Technology and MMG (*Medical School*)  
 Katia Georgopoulos, Professor of Dermatology (*Medical School*)  
 Anne Giersch, Assistant Professor of Pathology (*Medical School*)  
 Grace Gill, Associate Professor of Pathology (*Medical School*)  
 D. Gary Gilliland, Professor of Medicine (*Medical School*)  
 Michael A. Gimbrone, Elsie T. Friedman Professor of Pathology (*Medical School*)  
 Laurie H. Glimcher, Professor of Medicine (*Medical School*) and Irene Heinz Given Professor of Immunology (*Public Health*)  
 David E. Golan, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Alfred L. Goldberg, Professor of Cell Biology (*Medical School*)  
 Marcia Goldberg, Associate Professor of Medicine (*Medical School*)  
 Anne E. Goldfeld, Associate Professor of Medicine (*Medical School*)  
 Daniel A. Goodenough, Takeda Professor of Cell Biology (*Medical School*)  
 Lisa V. Goodrich, Assistant Professor of Neurobiology (*Medical School*)  
 Heinrich G.J. Gottlinger, Associate Professor of Pathology (*Medical School*)  
 Michael E. Greenberg, Professor of Neurology (*Medical School*)  
 Michael Grusby, Professor of Molecular Immunology (*Public Health*) and Associate Professor of Medicine (*Public Health*)  
 James Gusella, Bullard Professor of Neurogenetics (*Medical School*)  
 Emanuela Gussoni, Assistant Professor of Pediatrics (*Medical School*)  
 Steven P. Gygi, Assistant Professor of Cell Biology (*Medical School*)  
 Daniel A. Haber, Professor of Medicine (*Medical School*)  
 Nir Hacohen, Assistant Professor of Medicine (*Medical School*)  
 David Hafler, Jack, Sadie, and David Breakstone Professor of Neurology (*Medical School*)  
 William C. Hahn, Assistant Professor of Medicine (*Medical School*)  
 Donald A. Harn, Professor of Tropical Public Health (*Public Health*)  
 J. Wade Harper, Bert and Natalie Vallee Professor of Molecular Pathology (*Medical School*)  
 Anne C. Hart, Assistant Professor of Pathology (*Medical School*)  
 Xi He, Assistant Professor of Neurology (*Medical School*)  
 Zhigang He, Assistant Professor of Neurology (*Medical School*)  
 Martin E. Hemler, Professor of Pathology (*Medical School*)  
 Darren E. Higgins, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Philip W. Hinds, Associate Professor of Pathology (*Medical School*)  
 Martin S. Hirsch, Professor of Medicine (*Medical School*) and Professor in the Department of Cancer Biology (*Public Health*) (*Medical School*)  
 Joel N. Hirschhorn, Assistant Professor of Genetics (Pediatrics) (*Medical School*)  
 I-Cheng Ho, Assistant Professor of Medicine (*Medical School*)  
 Ann Hochschild, Professor of Microbiology and Molecular Genetics (*Medical School*)  
 James M. Hogle, Edward S. Harkness Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Bruce H. Horwitz, Assistant Professor of Pediatrics (*Medical School*)  
 Victor Wee Hsu, Assistant Professor of Medicine (*Medical School*)  
 Bradley T. Hyman, John B. Penny, Jr. Professor of Neurology (*Medical School*)



John J. Iacomini, Associate Professor of Surgery (*Medical School*)  
Donald E. Ingber, Judah Foldman Professor of Vascular Biology (*Medical School*)  
Ole S. Isacson, Professor of Neurology (*Medical School*)  
Rakesh K. Jain, A. Werk Cook Professor of Radiation Oncology (*Medical School*)  
Frances E. Jensen, Associate Professor of Neurology (*Medical School*)  
Robert P. Johnson, Associate Professor of Medicine (*Medical School*)  
Welkin E. Johnson, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
J. Keith Joung, Assistant Professor of Pathology (*Medical School*)  
Jae Ung Jung, Professor of Microbiology and Molecular Genetics (*Medical School*)  
C. Ronald Kahn, Mary K. Iacocca Professor of Medicine (*Medical School*)  
Daniel E. Kahne, Professor of Chemistry and Chemical Biology (*FAS*) and Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Raghu Kalluri, Associate Professor of Medicine (*Medical School*)  
Joshua M. Kaplan, Professor of Genetics (*Medical School*)  
Dennis L. Kasper, William Ellery Channing Professor of Medicine (*Medical School*)  
Howard R. Katz, Associate Professor of Medicine (*Medical School*)  
Kenneth M. Kaye, Assistant Professor of Medicine (*Medical School*)  
Andrius Kazlauskas, Associate Professor of Ophthalmology (*Medical School*)  
Mark T. Keating, Professor of Cell Biology and Pediatrics (*Medical School*)  
Vicki R. Kelley, Associate Professor of Medicine (*Medical School*)  
Roya Khosravi-Far, Assistant Professor of Pathology (*Medical School*)  
Elliott D. Kieff, Harriet Ryan Albee Professor of Medicine and Professor of Microbiology and Molecular Genetics (*Medical School*)  
Kwang-Soo Kim, Associate Professor of Psychiatry (*Medical School*)  
Jean-Pierre Kinet, Professor of Pathology (*Medical School*)  
Randy King, Assistant Professor of Cell Biology (*Medical School*)  
Tomas Kirchhausen, Professor of Cell Biology (*Medical School*)  
Marc W. Kirschner, Carl W. Walter Professor of Systems Biology (*Medical School*)  
Michael Klagsbrun, Patricia A. Donahue Professor of Surgery (*Medical School*)  
Nancy Kleckner, Herchel Smith Professor of Molecular Biology  
David M. Knipe, Higgins Professor of Microbiology and Molecular Genetics (*Medical School*)  
Isaac S. Kohane, Lawrence J. Henderson Associate Professor of Pediatrics and Health Sciences and Technology and Associate Professor of Medicine (*Medical School*)  
Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Christine L. Konradi, Associate Professor of Psychiatry (*Medical School*)  
Walter J. Koroshetz, Associate Professor of Medicine and Assistant Professor of Neurology (*Medical School*)  
Stella Kourembanas, Associate Professor of Pediatrics (*Medical School*)  
Edward A. Kravitz, George Packer Berry Professor of Neurobiology (*Medical School*)  
Jordan A. Kreidberg, Associate Professor of Pediatrics (*Medical School*)  
Raju Kucherlapati, Paul C. Cabot Professor of Genetics (*Medical School*)  
Vijay K. Kuchroo, Professor of Neurology (*Medical School*)  
Rohit N. Kulkarni, Assistant Professor of Medicine (*Medical School*)  
Samuel M. Kunes, Professor of Molecular and Cellular Biology (*on leave fall term*)  
Louis M. Kunkel, Professor of Genetics and Professor of Pediatrics (*Medical School*)



Daniel R. Kuritzkes, Associate Professor of Medicine (*Medical School*)  
 Mitzi I. Kuroda, Professor of Genetics (*Medical School*)  
 David J. Kwiatkowski, Professor of Medicine (*Medical School*)  
 Lois A. Lampson, Associate Professor of Surgery (*Medical School*)  
 Peter T. Lansbury, Professor of Neurology (*Medical School*)  
 Andrew B. Lassar, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Philippe Leboulch, Associate Professor of Medicine (*Medical School*)  
 Jeannie T. Lee, Professor of Genetics (*Medical School*)  
 Tun-Hou Lee, Professor of Virology (*Public Health*)  
 Wayne I. Lencer, Associate Professor of Pediatrics (*Medical School*)  
 Cammie Lesser, Assistant Professor of Medicine (*Medical School*)  
 Norman Letvin, Professor of Medicine (*Medical School*)  
 Michael Levin, Assistant Professor of Oral and Developmental Biology (*Dental School*)  
 Andrew H. Lichtman, Associate Professor of Pathology (*Medical School*)  
 Jeff Lichtman, Professor of Molecular and Cellular Biology  
 Judy Lieberman, Professor of Pediatrics (*Medical School*)  
 David Morse Livingston, Emil Frei Professor of Medicine (*Medical School*)  
 Margaret S. Livingstone, Professor of Neurobiology (*Medical School*)  
 Eng H. Lo, Associate Professor of Radiology (*Medical School*)  
 Mary R. Loeken, Assistant Professor of Medicine (*Medical School*)  
 A. Thomas Look, Professor of Pediatrics (*Medical School*)  
 Stephen Lory, Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Kun Ping Lu, Associate Professor of Medicine (*Medical School*)  
 Francis W. Luscinskas, Associate Professor of Pathology (*Medical School*)  
 Andrew D. Luster, Associate Professor of Medicine (*Medical School*)  
 Qiufu Ma, Associate Professor of Neurobiology (*Medical School*)  
 Richard L. Maas, Professor of Medicine (*Medical School*)  
 Marcy E. MacDonald, Associate Professor of Neurology (*Medical School*)  
 Jeffrey D. Macklis, Associate Professor of Surgery (*Medical School*)  
 Joseph A. Majzoub, Professor of Medicine and Thomas Morgan Rotch Professor of Pediatrics (*Medical School*)  
 Clint L. Makino, Associate Professor of Ophthalmology (*Medical School*)  
 Jarema Malicki, Assistant Professor of Ophthalmology (Genetics) (*Medical School*)  
 Eleftheria Maratos-Flier, Associate Professor of Medicine (*Medical School*)  
 Jarrod Marto, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Richard H. Masland, Charles Anthony Pappas Professor of Neuroscience and Professor of Ophthalmology (*Medical School*)  
 Diane J. Mathis, Professor of Medicine (*Medical School*)  
 Tanya Mayadas, Associate Professor of Pathology (*Medical School*)  
 Andrea I. McClatchey, Assistant Professor of Pathology (*Medical School*)  
 Frank D. McKeon, Professor of Cell Biology (*Medical School*)  
 Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology  
 John J. Mekalanos, Adele Lehman Professor of Microbiology and Molecular Genetics (*Medical School*)





Matthew L. Meyerson, Assistant Professor of Pathology (*Medical School*)  
Thomas Michel, Professor of Medicine (*Medical School*)  
Alan M. Michelson, Associate Professor of Medicine (*Medical School*)  
Timothy J. Mitchison, Hasib Sabbagh Professor of Systems Biology (*Medical School*)  
Danesh Moazed, Associate Professor of Cell Biology (*Medical School*)  
D. Branch Moody, Assistant Professor of Medicine (*Medical School*)  
Cynthia C. Morton, Professor of Pathology and William Lambert Richardson Professor of Obstetrics, Gynecology, and Reproductive Biology (*Medical School*)  
Edmund A. Mroz, Jr., Associate Professor of Physiology (*Medical School*)  
Richard C. Mulligan, Mallinckrodt Professor of Genetics and Professor of Pediatrics (*Medical School*)  
Karl Münger, Associate Professor of Pathology (*Medical School*)  
Venkatesh N. Murthy, Morris Kahn Associate Professor of Molecular and Cellular Biology  
Anders Michael Naar, Assistant Professor of Cell Biology (*Medical School*)  
Lee M. Nadler, Virginia and D.K. Ludwig Professor of Medicine (*Medical School*)  
Cathryn R. Nagler-Anderson, Associate Professor of Pediatrics (*Medical School*)  
Benjamin Neel, Professor of Medicine (*Medical School*)  
Max L. Nibert, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Anne Nicholson-Weller, Professor of Medicine (*Medical School*)  
Carl D. Novina, Assistant Professor of Pathology (*Medical School*)  
Marjorie A. Oettinger, Professor of Genetics (*Medical School*)  
Bjørn R. Olsen, Professor of Oral and Developmental Biology and Hersey Professor of Cell Biology (*Dental School, Medical School*)  
Stuart H. Orkin, David G. Nathan Professor of Pediatrics (*Medical School*)  
Sandra Orsulic, Assistant Professor of Pathology (*Medical School*)  
Carol A. Paronis, Assistant Professor of Psychobiology (*Medical School*)  
Jeffrey D. Parvin, Associate Professor of Pathology (*Medical School*)  
David L. Paul, Professor of Neurobiology (*Medical School*)  
Michael Pazin, Assistant Professor of Dermatology (*Medical School*)  
David Pellman, Associate Professor of Pediatrics (*Medical School*)  
Lizabeth A. Perkins, Associate Professor of Surgery (*Medical School*)  
Norbert Perrimon, Professor of Genetics (*Medical School*)  
Gerald Pier, Professor of Medicine (Microbiology and Molecular Genetics) (*Medical School*)  
Shiv S. Pillai, Associate Professor of Medicine (*Medical School*)  
Martin R. Pollak, Assistant Professor of Medicine (*Medical School*)  
Kornelia Polyak, Assistant Professor of Medicine (*Medical School*)  
Scott L. Pomeroy, Associate Professor of Neurology (*Medical School*)  
Samuel D. Rabkin, Associate Professor of Surgery (*Medical School*)  
Laurel A. Raftery, Associate Professor of Dermatology (*Medical School*)  
Klaus Rajewsky, Professor of Pathology (*Medical School*)  
Anjana Rao, Professor of Pathology (*Medical School*)  
Tom Rapoport, Professor of Cell Biology (*Medical School*)  
Elio Raviola, Bullard Professor of Neurobiology and Professor of Ophthalmology (*Medical School*)  
Robin Reed, Professor of Cell Biology (*Medical School*)  
Wade G. Regehr, Professor of Neurobiology (*Medical School*)



David Emil Reich, Assistant Professor of Genetics (*Medical School*)  
R. Clay Reid, Professor of Neurobiology (*Medical School*)  
Ellis L. Reinherz, Professor of Medicine (*Medical School*)  
Charles C. Richardson, Edward S. Wood Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Charles M. Roberts, Assistant Professor of Pediatrics (*Medical School*)  
Barrett J. Rollins, Associate Professor of Medicine (*Medical School*)  
Evan David Rosen, Assistant Professor of Medicine (*Medical School*)  
Vicki Rosen, Professor of Oral and Developmental Biology (*Dental School*)  
Paul Allen Rosenberg, Associate Professor of Neurology (*Medical School*)  
Frederick P. Roth, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
David H. Rowitch, Associate Professor of Pediatrics (*Medical School*)  
Eric J. Rubin, Assistant Professor of Medicine (*Medical School*) and Assistant Professor of Immunology and Infectious Diseases (*Public Health*)  
Robert H. Rubin, Gordon and Marjorie Osborn Professor of Health Sciences and Technology, Professor of Medicine (*Medical School*)  
Joan V. Ruderman, Marion V. Nelson Professor of Cell Biology (*Medical School*)  
David Z. Rudner, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
Ruth M. Ruprecht, Professor of Medicine (*Medical School*)  
Gary B. Ruvkun, Professor of Genetics (*Medical School*)  
Bernardo L. Sabatini, Assistant Professor of Neurobiology (*Medical School*)  
David H. Sachs, Paul S. Russell/Warner Lambert Professor of Surgery (*Medical School*)  
Adrian Salic, Assistant Professor of Cell Biology (*Medical School*)  
Joshua Sanes, Professor of Molecular and Cellular Biology  
Clifford B. Saper, James Jackson Putnam Professor of Neurology (*Medical School*)  
David T. Scadden, Professor of Medicine (*Medical School*)  
Priscilla A. Schaffer, Professor of Medicine (*Medical School*)  
Stuart F. Schlossman, Baruj Benacerraf Professor of Medicine (*Medical School*)  
Dietmar Schmucker, Assistant Professor of Neurobiology (*Medical School*)  
Stuart L. Schreiber, Morris Loeb Professor of Chemistry  
Thomas M. Schultheiss, Assistant Professor of Medicine (*Medical School*)  
Peter H. Schur, Professor of Medicine (*Medical School*)  
Richard M. Schwartzstein, Associate Professor of Medicine (*Medical School*)  
Thomas L. Schwarz, Professor of Neurology and Neurobiology (*Medical School*)  
Ralph Scully, Assistant Professor of Medicine (*Medical School*)  
Brian Seed, Professor of Genetics (*Medical School*)  
Rosalind A. Segal, Associate Professor of Neurobiology (*Medical School*)  
Christine E. Seidman, Professor of Medicine and Professor of Genetics (*Medical School*)  
Jonathan G. Seidman, Henrietta B. and Frederick H. Bugher Foundation Professor of Genetics (*Medical School*)  
Dennis J. Selkoe, Vincent and Stella Coates Professor of Neurologic Diseases (*Medical School*)  
William R. Sellers, Associate Professor of Medicine (*Medical School*)  
Charles N. Serhan, Simon Gelman Professor of Anaesthesia (*Medical School*)  
Jeffrey E. Settleman, Associate Professor of Medicine (*Medical School*)  
Arlene H. Sharpe, George Fabyan Professor of Comparative Pathology (*Medical School*)



Carla J. Shatz, Nathan Marsh Pusey Professor of Neurobiology (*Medical School*)  
Jen Sheen, Associate Professor of Genetics (*Medical School*)  
Jie Shen, Associate Professor of Neurology (*Medical School*)  
Yang Shi, Professor of Pathology (*Medical School*)  
William Shih, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Ramesh Arjun Shivdasani, Associate Professor of Medicine (*Medical School*)  
Steven E. Shoelson, Professor of Medicine (*Medical School*)  
Piotr Sicinski, Associate Professor of Pathology (*Medical School*)  
Pamela A. Silver, Professor of Systems Biology (*Medical School*)  
David A. Sinclair, Associate Professor of Pathology (*Medical School*)  
Pamela B. Sklar, Assistant Professor of Psychiatry (*Medical School*)  
Scott Brian Snapper, Assistant Professor of Medicine (*Medical School*)  
Joseph G. Sodroski, Professor of Pathology (*Medical School*) and Professor of Cancer Biology (*Public Health*)  
Bruce M. Spiegelman, Professor of Cell Biology (*Medical School*)  
Timothy A. Springer, Latham Family Professor of Pathology (*Medical School*)  
Michael Starnbach, Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
Joan E. Stein-Streilein, Associate Professor of Medicine (*Medical School*)  
Richard L. Stevens, Professor of Medicine (*Medical School*)  
Charles D. Stiles, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Gary R. Strichartz, Professor of Anaesthesia (*Medical School*)  
Terry B. Strom, Professor of Medicine (*Medical School*)  
Jack L. Strominger, Higgins Professor of Biochemistry  
Kevin Struhl, David Wesley Gaiser Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Shamil R. Sunyaev, Assistant Professor of Medicine and Health Sciences and Technology (*Medical School*)  
Kathleen J. Sweadner, Associate Professor of Cellular and Molecular Physiology in the Department of Surgery (*Medical School*)  
Megan Sykes, Professor of Surgery (*Medical School*)  
Jack Szostak, Professor of Genetics (*Medical School*)  
Clifford J. Tabin, Professor of Genetics (*Medical School*)  
Rudolph E. Tanzi, Professor of Neurology (*Medical School*)  
Daniel G. Tenen, Professor of Medicine (*Medical School*)  
Cox Terhorst, Professor of Medicine (*Medical School*)  
Sheila Thomas, Assistant Professor of Medicine (*Medical School*)  
Alex Toker, Associate Professor of Pathology (*Medical School*)  
Li-Huei Tsai, Professor of Pathology (*Medical School*)  
Shannon Turley, Assistant Professor of Pathology (*Medical School*)  
Dale T. Umetsu, Prince Turki Bin Abdul Aziz Al-Saud Professor of Pediatrics (*Medical School*)  
Antoine van Oijen, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
David L. Van Vactor, Associate Professor of Cell Biology (*Medical School*)  
Marc Vidal, Associate Professor of Genetics (*Medical School*)





Ulrich H. Von Andrian-Werburg, Professor of Pathology (*Medical School*)  
Harald Von Boehmer, Professor of Pathology (*Medical School*)  
Amy Jo Wagers, Assistant Professor of Pathology (*Medical School*)  
Denisa D. Wagner, Professor of Pathology (*Medical School*)  
Gerhard Wagner, Elkan Blout Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Bruce D. Walker, Professor of Medicine (*Medical School*)  
Suzanne Walker, Professor of Microbiology and Molecular Genetics (*Medical School*)  
W. Allan Walker, Conrad Taff Professor of Pediatrics (*Medical School*) and Professor of Nutrition (*Public Health*)  
Christopher A. Walsh, Bullard Professor of Neurology (*Medical School*)  
Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Johannes Walter, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Thomas Walz, Associate Professor of Cell Biology (*Medical School*)  
Frederick C. Wang, Associate Professor of Medicine (*Medical School*)  
Howard L. Weiner, Robert L. Kroc Professor of Neurology (*Medical School*)  
Charles J. Weitz, Robert Henry Pfeiffer Professor of Neurobiology (*Medical School*)  
Peter F. Weller, Professor of Medicine (*Medical School*)  
Michael R. Wessels, Professor of Pediatrics and Professor of Medicine (*Medical School*)  
Marianne Wessling-Resnick, Professor of Nutritional Biochemistry (*Public Health*)  
Sean P.J. Whelan, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
Kristin White, Associate Professor of Dermatology (*Medical School*)  
Morris F. White, Professor of Pediatrics (*Medical School*)  
Malcolm Whitman, Associate Professor of Oral and Developmental Biology (*Medical School*)  
Rachel I. Wilson, Assistant Professor of Neurobiology (*Medical School*)  
Fred Winston, Professor of Genetics (*Medical School*)  
Dyann F. Wirth, Professor of Tropical Public Health (*Public Health*)  
Michael S. Wolfe, Associate Professor of Neurology (*Medical School*)  
Clifford Woolf, Richard J. Kitz Professor of Anaesthesia Research (*Medical School*)  
Chao-Ting Wu, Professor of Genetics (*Medical School*)  
Kai Wucherpennig, Associate Professor of Neurology (*Medical School*)  
Priscilla Yang, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
Bruce Yankner, Professor of Neurology (*Medical School*)  
Anne B. Young, Julieanne Dorn Professor of Neurology (*Medical School*)  
Junying Yuan, Professor of Cell Biology (*Medical School*)  
Edmond J. Yunis, Professor of Pathology (*Medical School*)  
Bruce R. Zetter, Charles Nowiszewski Professor of Cancer Biology (*Medical School*)  
Jing Zhou, Associate Professor of Medicine (*Medical School*)  
Leonard I. Zon, Professor of Pediatrics (*Medical School*)  
Lee Zou, Assistant Professor of Medicine (*Medical School*)

The Division of Medical Sciences makes available to graduate students the facilities of the preclinical departments and research laboratories of the Harvard Medical School and its affiliated hospitals and institutions. The Division offers advanced courses and research in cell biology,



biological chemistry and molecular pharmacology, genetics, immunology, microbiology and molecular genetics, neurosciences, pathology, physiology, and virology. Qualified undergraduates may be admitted with the permission of the instructor and the student's department of concentration, as far as the facilities of the special laboratories permit. Inquiries should be addressed to the Division of Medical Sciences, Harvard Medical School, 260 Longwood Avenue, Boston, MA 02115, or telephone (617) 432-0162, email address [dms@hms.harvard.edu](mailto:dms@hms.harvard.edu).

For other courses in biological sciences, see listings of the Program in Biological Sciences in Public Health, Biophysics and Molecular and Cellular Biology.

### ***Biological and Biomedical Sciences (BBS)***

BBS is an interdepartmental program within the Division of Medical Sciences at Harvard Medical School. BBS faculty are primarily drawn from five preclinical departments of the Medical School: Biological Chemistry and Molecular Pharmacology (BCMP); Cell Biology; Genetics; Microbiology and Molecular Genetics; and Pathology. In addition, selected faculty located within area hospitals and institutions are members of BBS.

#### ***Graduate Courses of Reading and Research***

##### **\*BBS 333r. Introduction to Research in Biological and Biomedical Sciences**

Catalog Number: 1206

*Robert E. Kingston (Medical School) 1153*

*Note:* BBS students register for lab rotations under this course number.

##### **\*BBS 380. Reading and Research in Biological and Biomedical Sciences**

Catalog Number: 0349

*Robert E. Kingston (Medical School) 1153*

### ***Biological Chemistry and Molecular Pharmacology***

All courses in Biological Chemistry and Molecular Pharmacology are subject to limitation in enrollment and will not be offered unless there is sufficient demand. For courses in Neuropharmacology, see listings under Neurobiology. For more courses in biochemistry, see other listings in the FAS Biological Sciences section.

#### ***Primarily for Graduates***

##### **[BCMP 200. Molecular Biology](#)**

Catalog Number: 5591

*Johannes Walter (Medical School), Stephen Buratowski (Medical School), Alan N. Engelman (Medical School), David E. Fisher (Medical School), and Gerhard Wagner (Medical School)*  
*Half course (fall term). M., W., F., 10:30–12.*



An advanced treatment of the Central Dogma of molecular biology. Considers the molecular basis of genetic information transfer from DNA to RNA to protein, using current examples from eukaryotic and prokaryotic systems. Lectures, discussion groups and research seminars.

*Note:* Offered jointly with the Medical School as BP 723.0.

*Prerequisite:* Intended primarily for graduate students familiar with basic molecular biology or with strong biology/chemistry background.

### **BCMP 201. Proteins: Structure, Function and Catalysis**

Catalog Number: 5068

*Michael J. Eck (Medical School), Stephen C. Blacklow (Medical School), Jarrod Marto (Medical School), Frederick P. Roth (Medical School), and Michael S. Wolfe (Medical School)*

*Half course (spring term). Tu., Th., 9:30–11, W., 4:30–6.*

Advanced protein biochemistry with emphasis on the interrelated roles of protein structure, catalytic activity, and macromolecular interactions in biological processes.

*Note:* Offered jointly with the Medical School as BP 714.0. For more information, see [bcmp201.med.harvard.edu](http://bcmp201.med.harvard.edu)

*Prerequisite:* Knowledge of introductory general biochemistry, elementary physical chemistry, and molecular genetics required.

### **\*BCMP 205. Principles of Pharmacology**

Catalog Number: 1737

*David E. Golan (Medical School) and members of the Department*

*Half course (spring term). M. through F., 8:30–12.*

Intensive introduction to pharmacology, emphasizing mechanisms of drug action and principles of drug-receptor interactions, pharmacokinetics, and drug metabolism. Major drug examples drawn from neuropharmacology, cardiovascular pharmacology, endocrine pharmacology, autacoids, and chemotherapeutic agents.

*Note:* Offered jointly with the Medical School as IN 705.0. Ten hours of lecture and large-group discussion, four hours of conference, and four hours of tutorial per week. Permission of both the course director and the Medical School Registrar is required.

*Prerequisite:* Introductory biochemistry and physiology preferred but not required.

### **BCMP 207. Molecular Approaches to Drug Action, Discovery, and Design**

Catalog Number: 0529 Enrollment: May be limited.

*Donald M. Coen (Medical School), David E. Golan (Medical School), James M. Hogle (Medical School), Randy King (Medical School), Steven E. Shoelson (Medical School), Christopher T. Walsh (Medical School), and associates.*

*Half course (spring term). Tu., Th., 3:30–5:30.*

Explores how molecular biology, structural biology, and modern enzymology revolutionized understanding of drug action and development of new therapies. Analyzes molecular underpinnings of basic pharmacological principles. Examples drawn from molecular pathways with application to diseases, including, cancer, diabetes, and AIDS.

*Note:* Offered jointly with the Medical School as BP 715.0. Primarily for graduate students.

### **[BCMP 210. Theory and Practice of Techniques in Molecular Biology ]**

Catalog Number: 1230



*Welcome W. Bender (Medical School) and assistants*

*Half course (spring term). Hours to be arranged.*

Reviews the principles of common lab techniques, and discusses recent innovations. Topics include separation and detection methods for nucleic acids and proteins, nucleic acid reassociations, and polymerase reactions. Course format includes lecture, lab experiments, and discussions.

*Note:* Expected to be given in 2006–07. Offered jointly with the Medical School as BP 725.0.

*Prerequisite:* Prior exposure to molecular techniques and current residence in a lab equipped for molecular work.

### **\*BCMP 213. Behavioral Pharmacology**

Catalog Number: 4782 Enrollment: Limited to 15.

*Jack Bergman (Medical School) and Carol A. Paronis (Medical School)*

*Half course (spring term). M., W., 3:30–5.*

Introduction to CNS pharmacology and behavior in seminar format. Effects of psychomotor stimulants, antischizophrenics, opioid analgesics, and antianxiety agents on behavior. Emphasis on methodology and pharmacological analysis; attention to tolerance, drug dependence/addiction.

*Note:* Offered jointly with the Medical School as BP 719.0.

### **[BCMP 228. Macromolecular NMR]**

Catalog Number: 3969

*Gerhard Wagner (Medical School) and James J. Chou (Medical School)*

*Half course (fall term). Hours to be arranged.*

Theory and practice of modern methods of macromolecular structure determination using multi-dimensional NMR.

*Note:* Expected to be given in 2006–07. Given in alternate years. Offered jointly with the Medical School as BP 722.0. Classroom lectures on Mondays and Fridays. Wednesdays are reserved for either classroom lectures or practical training and hands-on problem solving. The latter includes basic aspects of spectrometer operation, computer-based assignment of protein NMR spectra and structure calculation. Wednesday slots are reserved for registered students and are open ended for completing the training tasks.

### **BCMP 230. Principles and Practice of Drug Development**

Catalog Number: 1295

*Robert H. Rubin (Medical School)*

*Half course (fall term). Th., 3–6.*

Critical assessment of the major issues and stages of developing a pharmaceutical or biopharmaceutical. Drug discovery, preclinical development, clinical investigation, manufacturing and regulatory issues considered for small and large molecules. Economic considerations of the drug development process.

### **BCMP 232. Physical Principles in Biology**

Catalog Number: 3146

*Antoine van Oijen (Medical School), James J. Chou (Medical School), and William Shih (Medical School)*



*Half course (spring term). M., 2–3:30 and weekly sections to be arranged.*

Seeks to help students develop an intuitive grasp of the quantitative principles underlying the behavior of biological macromolecules.

*Note:* This course is geared toward students who do not have a strong background in physics or math.

***Graduate Courses of Reading and Research***

**\*BCMP 300. Enzyme Mechanisms**

Catalog Number: 1867

*Christopher T. Walsh (Medical School) 2036*

**\*BCMP 301 (formerly \*Genetics 327). High Throughput Functional Proteomics**

Catalog Number: 1535

*Edward E. Harlow (Medical School) 2863*

**\*BCMP 306. Tumor Suppressor Genes and Prostate Cancer**

Catalog Number: 0524

*William R. Sellers (Medical School) 4335*

**\*BCMP 308. Blood Coagulation and Vascular Biology**

Catalog Number: 3950

*Bruce Furie (Medical School) 3937*

**\*BCMP 309. Regulation of Membrane Protein and Lipid Dynamics: Molecular Mechanisms and Biological Implications**

Catalog Number: 1558

*David E. Golan (Medical School) 1558*

**\*BCMP 310. Molecular and Cellular Mechanisms of Insulin Action**

Catalog Number: 4299

*Morris F. White (Medical School) 3158*

**\*BCMP 311. Structure of Viruses, Viral Proteins, Receptors, Transcription Factors**

Catalog Number: 3623

*Stephen C. Harrison (Medical School) 3597*

**\*BCMP 313. Genetics and Genomics; Tumor Maintenance; Mouse Models**

Catalog Number: 1632

*Lynda Chin (Medical School) 3931*

**\*BCMP 314. Protein NMR Spectroscopy of Membrane Protein**

Catalog Number: 3449

*James J. Chou (Medical School) 4950*



**\*BCMP 315. Growth Factor Structure and Biological Activity**

Catalog Number: 6034

*Michael Klagsbrun (Medical School) 3167*

**\*BCMP 317. Structural and Cellular Biology of Insulin Signal Transduction, Insulin, Resistance, Diabetes and Obesity**

Catalog Number: 3354

*Steven E. Shoelson (Medical School) 3951*

**\*BCMP 319. Histone Variants and Chromosome Biology**

Catalog Number: 1748

*Kami Ahmad (Medical School) 4592*

**\*BCMP 320. Cell Biology of Eukaryotes**

Catalog Number: 0265

*Pamela A. Silver (Medical School) 1595*

**\*BCMP 321. Structural Studies of Transcription Factors and DNA Repair Proteins**

Catalog Number: 7298

*Thomas E. Ellenberger (Medical School) 1643*

**\*BCMP 322. Thyroid Hormone Metabolism and Action**

Catalog Number: 2050

*Antonio C. Bianco (Medical School) 5387*

**\*BCMP 324. Structure and Replication of DNA**

Catalog Number: 5059

*Charles C. Richardson (Medical School) 2479*

**\*BCMP 325. Genomic Instability and Cancer Susceptibility**

Catalog Number: 4110

*Alan D. D'Andrea (Medical School) 3532*

**\*BCMP 328. Computational Analysis of Sequence Variation and Divergence**

Catalog Number: 2468

*Shamil R. Sunyaev (Medical School) 4671*

**\*BCMP 329. Structure Biology of Cytoplasmic Signal Transduction**

Catalog Number: 5005

*Michael J. Eck (Medical School) 1739*

**\*BCMP 331. Biochemistry and Biology of Neurodegenerative Diseases**

Catalog Number: 9727

*Michael S. Wolfe (Medical School) 4543*



**\*BCMP 332. Structural Neurology**

Catalog Number: 0276

*Peter T. Lansbury (Medical School) 2115*

**\*BCMP 335. Biochemical and Genetic Analysis of Eukaryotic Gene Expression**

Catalog Number: 8052

*Stephen Buratowski (Medical School) 1790*

**\*BCMP 337. Drosophila Molecular Genetics**

Catalog Number: 0782

*Welcome W. Bender (Medical School) 7083*

**\*BCMP 338. Eukaryotic Gene Regulation**

Catalog Number: 0549

*Kevin Struhl (Medical School) 7415*

**\*BCMP 339. Regulation of the Cellular Uptake of Macromolecular Nutrients**

Catalog Number: 3453

*Marianne Wessling-Resnick (Public Health) 1315*

**\*BCMP 340. Discovery and Analysis of Small Biologically Active Molecule**

Catalog Number: 8300

*Jon Clardy (Medical School) 4667*

**\*BCMP 343. Molecular Genetics of Herpes Viruses**

Catalog Number: 0868

*Donald M. Coen (Medical School) 7617*

**\*BCMP 344. Molecular Pharmacology of Excitable Membranes**

Catalog Number: 0200

*Gary R. Strichartz (Medical School) 7530*

**\*BCMP 345. Transcription Factors in Hematopoiesis and Leukemogenesis**

Catalog Number: 4792

*Alan B. Cantor (Medical School) 5150*

**\*BCMP 348. Chromatin and Cancer**

Catalog Number: 6409

*Charles M. Roberts (Medical School) 5151*

**\*BCMP 352. Cellular and Molecular Mechanisms in Inflammation**

Catalog Number: 4853

*Charles N. Serhan (Medical School) 3163*





**\*BCMP 354. DNA Replication, Searching Mechanisms of DNA-Binding Factors**

Catalog Number: 6823

*Antoine van Oijen (Medical School) 5084*

**\*BCMP 356. Solution Structures of Proteins by NMR Spectroscopy**

Catalog Number: 8093

*Gerhard Wagner (Medical School) 2626*

**\*BCMP 359. Molecular Mechanisms of Signal Transduction**

Catalog Number: 8520

*Elaine A. Elion (Medical School) 2941*

**\*BCMP 360. Regulating Skeletal Myogenesis**

Catalog Number: 6934

*Andrew B. Lassar (Medical School) 2946*

**\*BCMP 361. X-Ray Crystallographic Studies of Viruses and Proteins**

Catalog Number: 4155

*James M. Hogle (Medical School) 2943*

**\*BCMP 362. Eukaryotic Survival Decisions**

Catalog Number: 4972

*David E. Fisher (Medical School) 1800*

**\*BCMP 363. The Mechanics and Regulation of Mitosis**

Catalog Number: 4981

*David Pellman (Medical School) 3702*

**\*BCMP 366. Stem Cells in Disease and Development**

Catalog Number: 9236

*George Quentin Daley (Medical School) 4951*

**\*BCMP 370. Advanced Topics in Biological Chemistry and Molecular Pharmacology**

Catalog Number: 0482

*James M. Hogle (Medical School) 2943 and Johannes Walter (Medical School) 3846*

A series of reading and discussion seminars, each running for a half term (7 weeks). Two seminars, which can be taken in different terms, are required for credit.

*Note:* Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

**\*BCMP 371. Initiation of Eukaryotic DNA Replication: A Biochemical Analysis**

Catalog Number: 3739

*Johannes Walter (Medical School) 3846*



**\*BCMP 372. Methods and Applications in Computational Molecular Biology**

Catalog Number: 1638

*Frederick P. Roth (Medical School) 3912*

**\*BCMP 373. Blood Coagulation and Vascular Biology**

Catalog Number: 5747

*Barbara C. Furie (Medical School) 3936*

**\*BCMP 374. Growth Factors and Signal Transduction**

Catalog Number: 1179

*Michael R. Freeman (Medical School) 5169*

**\*BCMP 375. Biomolecular Nanotechnology**

Catalog Number: 3288

*William Shih (Medical School) 5256*

**\*BCMP 376. Antibiotic Resistance and Organelle Assembly**

Catalog Number: 3033

*Daniel E. Kahne 5065*

**\*BCMP 377. Quantitative Proteomics of Cancer Progression**

Catalog Number: 5225

*Jarrold Marto (Medical School) 5326*

**\*BCMP 378. Mechanisms of Hepatic Cholesterol Elimination**

Catalog Number: 6669

*David E. Cohen (Medical School) 3478*

**\*BCMP 379. Biochemical and Molecular Regulation of Vascular Growth**

Catalog Number: 9374

*Marsha Moses (Medical School) 5388*

***Cell Biology***

***Primarily for Graduates***

**[Cell Biology 201. Molecular Biology of the Cell](#)**

Catalog Number: 1044

*Daniel Finley (Medical School), John Blenis (Medical School), Joan S. Brugge (Medical School), Timothy J. Mitchison (Medical School), Danesh Moazed (Medical School), Benjamin Neel (Medical School), David Pellman (Medical School), Tom Rapoport (Medical School), and Pamela A. Silver (Medical School)*

*Half course (spring term). M., W., 10:30–12; and sections F. at 10:30–12.*

Topics include the molecular basis of cellular compartmentalization, protein trafficking, cytoskeleton dynamics, mitosis, cell locomotion, cell cycle regulation, signal transduction, cell-cell interaction, and the cellular/biochemical basis of diseases. Methods covered include protein



purification, mass spectrometry, and microscopy.

*Note:* Offered jointly with the Medical School as CB 713.0.

*Prerequisite:* Basic knowledge in biochemistry and genetics.

### **Cell Biology 207. Developmental Biology: Molecular Mechanisms of Vertebrate Development**

Catalog Number: 2044 Enrollment: Limited to 25.

*Andrew B. Lassar (Medical School), Iain A. Drummond (Medical School), John G. Flanagan (Medical School), Thomas M. Schultheiss (Medical School), Clifford J. Tabin (Medical School), Amy Jo Wagers (Medical School), and Malcolm Whitman (Medical School)*

*Half course (spring term). Tu., Th., 2–4.*

Analyzes the developmental programs of frog, chick, zebrafish, and mouse embryos, emphasizing experimental strategies for understanding the responsible molecular mechanisms that pattern the vertebrate embryo. Principal focus is the establishment of the body plan and the formation of selected organs.

*Note:* Offered jointly with the Medical School as CB 710.0. Includes lectures and conference sessions in which original literature is discussed in depth. Short research proposals are required in lieu of exams.

### **Cell Biology 211a. Biology of the Cancer Cell**

Catalog Number: 5771

*James A. DeCaprio (Medical School) and Myles A. Brown (Medical School)*

*Half course (fall term). M., W., 12–1:30. EXAM GROUP: 5, 6*

Examines the molecular basis of cancer including alterations in signal transduction, cell cycle, apoptosis and DNA repair with a focus on oncogenes, tumor suppressors, and oncogenic viruses. Explores the development of novel target based therapies.

*Note:* Given in alternate years. Offered jointly with the Medical School as CB 704.0.

*Prerequisite:* General knowledge of biochemistry, molecular genetics, and cell biology.

### **[Cell Biology 211b. Growth Factors and Signal Transduction]**

Catalog Number: 4169 Enrollment: Limited to 30.

*Charles D. Stiles (Medical School), Alan D. D'Andrea (Medical School), and Thomas M. Roberts (Medical School)*

*Half course (fall term). Hours to be arranged.*

History, chemistry and biology of growth factors, receptors and downstream signaling pathways. Using receptor tyrosine kinases and their ligands, the course covers other signaling agents and pathways including nitric oxide, Notch/Delta, Wnt and Sonic hedgehog.

*Note:* Expected to be given in 2006–07. Given in alternate years. Offered jointly with the Medical School as CB 705.0.

*Prerequisite:* BCMP/CB 201 or equivalent.

### **Cell Biology 214. Developmental Biology and Genetics**

Catalog Number: 3458 Enrollment: Limited to 14.

*David L. Van Vactor (Medical School), Spyros Artavanis-Tsakonas (Medical School), Jarema Malicki (Medical School), and Jeffrey E. Settleman (Medical School)*

*Half course (fall term). M., W., 4–6.*



The course will explore genetic tools for the analysis of developmental phenomena in flies, worms, and mice. We cover a continuum from pattern formation, cell growth, and cell fate to cell differentiation and morphogenesis.

*Note:* Offered jointly with the Medical School as CB 720.0. Contact course director at 617-432-2195 with questions.

*Prerequisite:* General genetics and developmental biology courses recommended.

### ***Graduate Courses of Reading and Research***

#### **\*Cell Biology 300. Advanced Topics in Cell, Molecular, and Developmental Biology**

Catalog Number: 5825

*Robert E. Kingston (Medical School) 1153*

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

*Note:* Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

#### **\*Cell Biology 304. Regulation of the Cell Cycle**

Catalog Number: 0414

*Joan V. Ruderman (Medical School) 2622*

#### **\*Cell Biology 307. Cell-Cell Signaling in Neural Development**

Catalog Number: 1911

*John G. Flanagan (Medical School) 3149*

#### **\*Cell Biology 308. Membrane Biology**

Catalog Number: 6173

*Dennis A. Ausiello (Medical School) 1288*

#### **\*Cell Biology 309. RNA Splicing and Nuclear Export of mRNA**

Catalog Number: 2523

*Robin Reed (Medical School) 2319*

#### **\*Cell Biology 310. Mechanisms of Vertebrate Chromosome Segregation**

Catalog Number: 9189

*Adrian Salic (Medical School) 5351*

#### **\*Cell Biology 311. Cardiovascular Signal Transduction**

Catalog Number: 9196

*Thomas Michel (Medical School) 4392*

#### **\*Cell Biology 312. Molecular Mechanisms of Mammalian Gene Regulation in Normal and Cancerous Cells**



Catalog Number: 8538  
*Anders Michael Naar (Medical School) 4328*

**\*Cell Biology 314. Molecular Biology of Extracellular Matrix**  
Catalog Number: 5077  
*Bjørn R. Olsen (Dental School, Medical School) 1164*

**\*Cell Biology 315. Biological Information Storage and Exchange**  
Catalog Number: 9463  
*Michael Levin (Dental School) 4560*

**\*Cell Biology 316. Mechanism and Function of Intracellular Protein Turnover**  
Catalog Number: 1017  
*Alfred L. Goldberg (Medical School) 2827*

**\*Cell Biology 317. Mechanisms of Programmed Cell Death**  
Catalog Number: 2270  
*Junying Yuan (Medical School) 2105*

**\*Cell Biology 318. Molecular Biology of Cell Growth Regulation and Transformation**  
Catalog Number: 3355  
*John Blenis (Medical School) 2612*

**\*Cell Biology 321. Neuronal Pathfinding and Synaptogenesis**  
Catalog Number: 4841  
*David L. Van Vactor (Medical School) 2089*

**\*Cell Biology 323. Biology of Membranes and Intercellular Junctions**  
Catalog Number: 2651  
*Daniel A. Goodenough (Medical School) 4077*

**\*Cell Biology 326. Signal Transduction During Early Development**  
Catalog Number: 1872  
*Malcolm Whitman (Medical School) 3267*

**\*Cell Biology 327. Signal Transduction in Cancer and Immunology**  
Catalog Number: 5878  
*Christopher L. Carpenter (Medical School) 5389*

**\*Cell Biology 328. Receptor-Mediated Endocytosis**  
Catalog Number: 0438  
*Tomas Kirchhausen (Medical School) 1155*

**\*Cell Biology 329. The Ubiquitin-Proteasome Pathway**  
Catalog Number: 6826  
*Daniel Finley (Medical School) 2313*



**\*Cell Biology 332. Mass Spectrometry and Proteomics**

Catalog Number: 1568

*Steven P. Gygi (Medical School) 3939*

**\*Cell Biology 333. Electron Crystallographic Structure Determination of Leukotriene**

Catalog Number: 9254

*Thomas Walz (Medical School) 3778*

**\*Cell Biology 334. Molecular Analysis of Tyrosine Phosphatases**

Catalog Number: 2447

*Benjamin Neel (Medical School) 2486*

**\*Cell Biology 335. Signal Transduction**

Catalog Number: 2542

*Lewis C. Cantley (Medical School) 1287*

**\*Cell Biology 336. Signal Transduction in Normal and Transformed Cells**

Catalog Number: 6833

*Joan S. Brugge (Medical School) 1486*

**\*Cell Biology 339. Cell Morphogenesis and Regulation**

Catalog Number: 3898

*Marc W. Kirschner (Medical School) 1078*

**\*Cell Biology 340. Dissection of Angiogenic Signaling in Zebrafish**

Catalog Number: 7792

*Joanne Chan (Medical School) 5391*

**\*Cell Biology 341. Sensory Cilia; Formation, Function and Evolution**

Catalog Number: 5693

*Tomer Avidor-Reiss (Medical School) 5352*

**\*Cell Biology 342. Cytoskeleton in Development and Cancer**

Catalog Number: 4059

*Sheila Thomas (Medical School) 3777*

**\*Cell Biology 343. Mechanisms of Mammalian Cell Differentiation and Gene Expression**

Catalog Number: 0202

*Bruce M. Spiegelman (Medical School) 7733*

**\*Cell Biology 344. Molecular Mechanism of Signal Transduction**

Catalog Number: 6093

*Xi He (Medical School) 2004*



**\*Cell Biology 345. Protein Transport Across the Endoplasmic Reticulum Membrane**

Catalog Number: 6793

*Tom Rapoport (Medical School) 1815*

**\*Cell Biology 346. Signal Transduction by Receptor Tyrosine Kinases**

Catalog Number: 1591

*Andrius Kazlauskas (Medical School) 2088*

**\*Cell Biology 347. Cellular and Molecular Aspects of Insulin Action**

Catalog Number: 1494

*C. Ronald Kahn (Medical School) 2019*

**\*Cell Biology 349. Gene Silencing and Chromosome Structure**

Catalog Number: 8765

*Danesh Moazed (Medical School) 4254*

**\*Cell Biology 352. Vertebrate Embryology, Organogenesis, and Cell Differentiation**

Catalog Number: 9231

*Thomas M. Schultheiss (Medical School) 2236*

**\*Cell Biology 353. Regulation of Epithelial Morphogenesis by TGF-beta Family Signaling**

Catalog Number: 8239

*Laurel A. Raftery (Medical School) 8686*

**\*Cell Biology 354. ARF Family of Small GTPases in the Regulation of Intracellular Transport**

Catalog Number: 7605

*Victor Wee Hsu (Medical School) 2606*

**\*Cell Biology 356. Cell Growth Regulation, Telomere Maintenance and Human Diseases**

Catalog Number: 3718

*Kun Ping Lu (Medical School) 2607*

**\*Cell Biology 358. Mechanisms of Tumor Metastasis**

Catalog Number: 0606

*Bruce R. Zetter (Medical School) 7737*

**\*Cell Biology 359. Intracellular Signaling Pathways in the Regulation of Cell Growth and Differentiation**

Catalog Number: 0335

*David A. Frank (Medical School) 3276*

**\*Cell Biology 360. Regulation and Execution of Apoptosis during Development in Drosophila**

Catalog Number: 6046

*Kristin White (Medical School) 3955*





**\*Cell Biology 361. Matrix Biology, Cell-Matrix Interactions in Health and Disease**

Catalog Number: 5561

*Raghu Kalluri (Medical School) 4945*

**\*Cell Biology 362. Molecular Basis of Pulmonary Hypertension, Hypoxic Signaling and Lung Vascular Development**

Catalog Number: 4662

*Stella Kourembanas (Medical School) 4958*

**\*Cell Biology 364. The Structure of the Nucleus and the Dynamics of Nuclear Transport**

Catalog Number: 3582

*Frank D. McKeon (Medical School) 1990*

**\*Cell Biology 372. Cytoskeletal Dynamics**

Catalog Number: 5032

*Timothy J. Mitchison (Medical School) 3713*

**\*Cell Biology 373. Molecular Genetics of Cell Interaction in Development**

Catalog Number: 8133

*Spyros Artavanis-Tsakonas (Medical School) 2609*

**\*Cell Biology 375. Molecular and Cellular Mechanisms of Regeneration. Molecular Genetics of Cardiovascular Diseases**

Catalog Number: 0435

*Mark T. Keating (Medical School) 3895*

**\*Cell Biology 376. Chemical Approaches to Cell Division and Cancer**

Catalog Number: 7680

*Randy King (Medical School) 3941*

**\*Cell Biology 377. Stem Cells, Islet Cell Function, Growth and Development**

Catalog Number: 7966

*Rohit N. Kulkarni (Medical School) 5152*

**\*Cell Biology 378. Bacterial Toxin Entry and Immunoglobulin Transport in Mucosal Epithelial Cells**

Catalog Number: 7656

*Wayne I. Lencer (Medical School) 5153*

**\*Cell Biology 379. BMP Signaling in Musculoskeletal Tissues**

Catalog Number: 2894

*Vicki Rosen (Dental School) 4790*

**\*Cell Biology 380. Cytoskeletal Mechanics of Blood Platelet Production**

Catalog Number: 9706

*Joseph E. Italiano (Medical School) 5392*



**\*Cell Biology 399. Nanocourses**

Catalog Number: 0087

*Spyros Artavanis-Tsakonas (Medical School) 2609*

**Genetics**

**Primarily for Graduates**

**\*Genetics 200. Genetics Development and Reproductive Biology**

Catalog Number: 4265 Enrollment: Limited to 4 Division of Medical Sciences students.

*Clifford J. Tabin (Medical School), Daniel D. Federman (Medical School), and Philip Leder (Medical School)*

*Half course (spring term). M. through F., 8:30–12:30.*

Covers classical and molecular human genetics, focusing on inheritance and variation among individuals and populations, particularly applications to human biology and medicine; and reproduction, early development and morphogenesis, emphasizing potential for intervention and regenerative medicine.

*Note:* To register, call 617-432-1515. Permission of both the course director and the Medical School Registrar is required. Offered jointly with the Medical School as IN 703.0.

*Prerequisite:* Biochemistry or equivalent.

**Genetics 201. Principles of Genetics**

Catalog Number: 4225

*Fred Winston (Medical School), Anne C. Hart (Medical School), Ann Hochschild (Medical School), and Mitzi I. Kuroda (Medical School)*

*Half course (fall term). M., W., F., 9–10:30.*

An in-depth survey of genetics, beginning with basic principles and extending to modern approaches and special topics. We will draw on examples from various systems, such as *Drosophila*, *C. elegans*, *Saccharomyces*, mouse, human and bacteria.

*Note:* Intended for first-year graduate students. Offered jointly with the Medical School as GN 701.0.

**Genetics 205. Mammalian Genetics**

Catalog Number: 9267

*David R. Beier (Medical School), David M. Altshuler (Medical School), and Joel N. Hirschhorn (Medical School)*

*Half course (spring term). Hours to be arranged.*

A literature discussion course on mammalian genetics, including mutation and disease cloning, mutagenesis, comparative genomics, cancer genetics, mammalian development, population genetics, complex trait genetics in humans and rodents, and mouse genome modification techniques and their applications.

**[Genetics 206. Genetic and Functional Genomic Dissection of Development]**

Catalog Number: 9852

*Marc Vidal (Medical School), Norbert Perrimon (Medical School), and Gary B. Ruvkun (Medical School)*



*Half course (spring term). Hours to be arranged.*

Discuss classic examples of genetic analysis, as well as functional genomic and proteomic strategies in the context of developmental studies in yeast, *Drosophila*, and *C. elegans*.

*Note:* Expected to be given in 2006–07.

### **[Genetics 216. Advanced Topics in Gene Expression]**

Catalog Number: 2244

*Robert E. Kingston (Medical School) and Fred Winston (Medical School)*

*Half course (spring term). Hours to be arranged.*

Covers both biochemical and genetic studies in regulatory mechanisms. Small number of topics discussed in depth, using the primary literature. Topics range from prokaryotic transcription to eukaryotic development.

*Note:* Expected to be given in 2006–07. Offered jointly with the Medical School as GN 703.0.

*Prerequisite:* BCMP 200 and Genetics 201.

### **Genetics 218. Genotype to Phenotype: Epigenetics and Weird Stuff**

Catalog Number: 2252 Enrollment: Limited to 15.

*Chao-Ting Wu (Medical School) and Kami Ahmad (Medical School)*

*Half course (spring term). Th., 1–4.*

Explores lesser known forms of gene regulation and inheritance, with focus on the oddities of biology. Past years have covered paramutation, repeat-induced point mutation (RIP), immortal DNA strands, meiotic silencing of unpaired DNA (MSUD), various forms of monoallelism and dosage compensation, etc.

*Note:* Given in alternate years. Offered jointly with the Medical School as GN 724.0.

*Prerequisite:* Introductory course in genetics and molecular biology, or permission of the instructors.

### **Genetics 220. Molecular Biology and Genetics in Modern Medicine**

Catalog Number: 4660

*Matthew L. Meyerson (Medical School)*

*Half course (fall term). Tu., 2–5, Th., 2–4.*

The scientific, clinical, and ethical aspects of modern human genetics and molecular biology as applied to medicine. Lectures covering genetic approaches and molecular underpinnings of inherited diseases and somatic/genetic diseases are integrated with patient presentations and discussion.

*Note:* Offered jointly with the Medical School as HT 160.

### ***Graduate Courses of Reading and Research***

#### **\*Genetics 300. Advanced Topics in Genetics**

Catalog Number: 1037

*Susan M. Dymecki (Medical School) 1736*

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

*Note:* Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this



course. Please contact us at 432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

**\*Genetics 301. Research in Molecular Genetics and Molecular Oncology**

Catalog Number: 4780

*Philip Leder (Medical School) 7527*

**\*Genetics 303. Pathogenesis**

Catalog Number: 1972

*Frederick Ausubel (Medical School) 4639*

**\*Genetics 304. Molecular Genetics Basis of Human Disease, Particularly Cardiovascular Pathogenesis**

Catalog Number: 0693

*Christine E. Seidman (Medical School) 3013*

**\*Genetics 305. Genetics, Receptors and Ion Channels**

Catalog Number: 9027

*Jing Zhou (Medical School) 3779*

**\*Genetics 306. Inherited Human Disorders**

Catalog Number: 7324

*Jonathan G. Seidman (Medical School) 7529*

**\*Genetics 308. Molecular Biology of Signal Transduction**

Catalog Number: 5616

*Brian Seed (Medical School) 7619*

**\*Genetics 309. Gene Expression in Yeast**

Catalog Number: 3763

*Fred Winston (Medical School) 7877*

**\*Genetics 310. Molecular Approaches to Developmental Neurobiology**

Catalog Number: 6324

*Constance L. Cepko (Medical School) 1150*

**\*Genetics 311. Molecular Mechanisms of Transcription Regulation in Mammals**

Catalog Number: 7310

*Robert E. Kingston (Medical School) 1153*

**\*Genetics 312. Molecular Genetics of Development**

Catalog Number: 8363

*Gary B. Ruvkun (Medical School) 1366*



**\*Genetics 313. Genomic Approaches to Human Disease Genetics**

Catalog Number: 6059

*David M. Altshuler (Medical School) 4307*

**\*Genetics 314. Structure and Activities of Ribozymes**

Catalog Number: 7244

*Jack Szostak (Medical School) 7096*

**\*Genetics 315. Molecular Genetics of Inherited Disorders**

Catalog Number: 3362

*James Gusella (Medical School) 1152*

**\*Genetics 316. Transcriptional Regulatory Network Analyses**

Catalog Number: 2247

*Martha L. Bulyk (Medical School) 4259*

**\*Genetics 317. Signaling Networks in Development and Disease**

Catalog Number: 2271

*Jordan A. Kreidberg (Medical School) 2080*

**\*Genetics 318. Genome Structure**

Catalog Number: 5012

*George M. Church (Medical School) 1608*

**\*Genetics 319. Mouse Models of Human Disorders**

Catalog Number: 0860

*David R. Beier (Medical School) 3519*

**\*Genetics 321. Genetics of Embryonic Development in Drosophila**

Catalog Number: 6501

*Norbert Perrimon (Medical School) 1679*

**\*Genetics 322. Vertebrate Pattern Formation**

Catalog Number: 0436

*Clifford J. Tabin (Medical School) 2430*

**\*Genetics 323. Molecular Biology of V(D)J Recombination**

Catalog Number: 6950

*Marjorie A. Oettinger (Medical School) 3172*

**\*Genetics 325. Human Genetics, Genomics and Complex Traits**

Catalog Number: 8275

*Joel N. Hirschhorn (Medical School) 4321*



**\*Genetics 326. Human, Molecular and Mouse Genetics**

Catalog Number: 2900

*David J. Kwiatkowski (Medical School) 3770*

**\*Genetics 328. Lymphocyte Differentiation, Recombination, and Nuclear Oncogenes**

Catalog Number: 2702

*Frederick W. Alt (Medical School) 3146*

**\*Genetics 329. Genetic Analysis of Synaptic Transmission**

Catalog Number: 9734

*Joshua M. Kaplan (Medical School) 3522*

**\*Genetics 330. Critical Thinking and Research Proposal Writing**

Catalog Number: 0210

*Alan M. Michelson (Medical School) 2029 and members of the Faculty*

*Half course (fall term; repeated spring term). .*

A small group tutorial systematically guiding students in the writing of original, hypothesis-driven research proposals from initial topic selection through completion of a final draft.

*Note:* Open to all BBS students; others need permission of the instructor.

*Prerequisite:* Core course in genetics, cell biology, molecular biology, and biochemistry.

**\*Genetics 332. Combining Genetic and Biochemical Approaches to Dissect Tumor Suppressor Gene Function**

Catalog Number: 2975

*Karen M. Cichowski (Medical School) 3932*

**\*Genetics 334. Genomics and the Genetics of Human Disease**

Catalog Number: 5144

*Raju Kucherlapati (Medical School) 4324*

**\*Genetics 335. Epigenetics, Homolgy Effects, Genetics, and Gene Regulation**

Catalog Number: 4982

*Chao-Ting Wu (Medical School) 3535*

**\*Genetics 336. Developmental Biology of Hematopoiesis**

Catalog Number: 7165

*Leonard I. Zon (Medical School) 1137*

**\*Genetics 337. Human Molecular Genetics**

Catalog Number: 7194

*Stuart H. Orkin (Medical School) 7402*

**\*Genetics 340. A Genetic Approach to Iron Biology**

Catalog Number: 2936

*Nancy Andrews (Medical School) 1589*



**\*Genetics 347. Genetics of Host Resistance to Infectious Disease**

Catalog Number: 5635

*William F. Dietrich (Medical School) 2067*

**\*Genetics 348. Molecular Genetics of Human Leukemias**

Catalog Number: 5908

*D. Gary Gilliland (Medical School) 2068*

**\*Genetics 350. Molecular Genetic Control of Mammalian Organogenesis**

Catalog Number: 4974

*Richard L. Maas (Medical School) 3703*

**\*Genetics 351. Using Drosophila as a Genetic System to Study Signal Transduction Pathways**

Catalog Number: 4998

*Lizabeth A. Perkins (Medical School) 1604*

**\*Genetics 354. Computational Methods for Understanding the Biological Basis of Human Disease**

Catalog Number: 9546

*Isaac S. Kohane (Medical School) 4531*

**\*Genetics 355. Molecular Genetics of Human Neuromuscular Diseases**

Catalog Number: 9253

*Alan H. Beggs (Medical School) 1422*

**\*Genetics 358. Mammalian Embryonic Patterning**

Catalog Number: 8297

*Susan M. Dymecki (Medical School) 1736*

**\*Genetics 359. Cancer and Development, Thrombopoiesis, Intestinal Development**

Catalog Number: 9880

*Ramesh Arjun Shivdasani (Medical School) 4538*

**\*Genetics 361. Mechanism of X-inactivation in Mammals**

Catalog Number: 9152

*Jeannie T. Lee (Medical School) 2129*

**\*Genetics 362. Molecular Biology and Genetics of Cancer**

Catalog Number: 9382

*David Morse Livingston (Medical School) 4872*

**\*Genetics 363. Neurogenesis in the Vertebrate Eye**

Catalog Number: 8658

*Jarema Malicki (Medical School) 2202*





**\*Genetics 364. Development Application of Mammalian Vectors**

Catalog Number: 7930

*Richard C. Mulligan (Medical School) 2274*

**\*Genetics 366. Molecular Genetic Approaches to Human Disease Mechanisms**

Catalog Number: 8153

*Marcy E. MacDonald (Medical School) 2635*

**\*Genetics 367. Mechanisms Governing Normal Cell Growth, Cancer and Aging**

Catalog Number: 2500

*Ronald A. DePinho (Medical School) 2637*

**\*Genetics 368. Molecular and Genetic Mechanisms Responsible for Muscle Differentiation During Embryonic Development**

Catalog Number: 7490

*Alan M. Michelson (Medical School) 2029*

**\*Genetics 369. Molecular Mechanisms of Plant Signal Transduction**

Catalog Number: 3010

*Jen Sheen (Medical School) 3892*

**\*Genetics 370. Molecular Basis of Breast Cancer Initiation and Progression**

Catalog Number: 4519

*Kornelia Polyak (Medical School) 3898*

**\*Genetics 371. To Generate a Comprehensive Protein-Interaction Map for C. elegans and Develop New Concepts to Integrate this Map with Other Functional Maps such as Expression Profiles and Global Phenotypic Analysis**

Catalog Number: 2190

*Marc Vidal (Medical School) 3914*

**\*Genetics 373. Kidney Disease, Genetics, Cytoskeleton**

Catalog Number: 3875

*Martin R. Pollak (Medical School) 4329*

**\*Genetics 374. Research On Mechanisms Underlying Meiotic Chromosome Segregation**

Catalog Number: 4419

*Monica P. Colaiacovo (Medical School) 4949*

**\*Genetics 375. Genomics of Leukemia**

Catalog Number: 2335

*Scott A. Armstrong (Medical School) 4947*

**\*Genetics 376. Cell Cycle Control and Genomic Integrity**

Catalog Number: 3788

*Stephen Elledge (Medical School) 4954*



**\*Genetics 377. Molecular Genetics of Chromosome Organization and Gene Expression**

Catalog Number: 0811

*Mitzi I. Kuroda (Medical School) 4959*

**\*Genetics 378. Vectorology of Chromosomal Integration and Gene Therapy Models**

Catalog Number: 8555

*Philippe Leboulch (Medical School) 4960*

**\*Genetics 379. Applying Population Genetics to Find Disease Genes**

Catalog Number: 1677

*David Emil Reich (Medical School) 4965*

**\*Genetics 380. Molecular Approaches to Metabolism and Energy Balance**

Catalog Number: 4688

*Evan David Rosen (Medical School) 4966*

**\*Genetics 381. Genetics of Psychiatric Disorders**

Catalog Number: 1377

*Pamela B. Sklar (Medical School) 5154*

**\*Genetics 382. Muscle Stem Cell Commitment and Differentiation**

Catalog Number: 2626

*Emanuela Gussoni (Medical School) 5155*

**\*Genetics 383. Epigenetic Reprogramming of Developing Germline Stem Cells**

Catalog Number: 2862

*Niels Geijsen (Medical School) 5386*

**\*Genetics 384. Cardiogenesis and Cardiac Morphogenesis**

Catalog Number: 7079

*William T. Pu (Medical School) 5396*

***Immunology***

All courses in Immunology are subject to limitation in enrollment and will not be offered unless there is sufficient demand.

***Primarily for Graduates***

**[\\*Immunology 201. Principles of Immunology](#)**

Catalog Number: 8337

*Michael C. Carroll (Medical School), Ulrich H. Von Andrian-Werburg (Medical School) and members of the Faculty*

*Half course (fall term). Tu., Th., 1:30–3, with section Tu., Th., 3–4. EXAM GROUP: 15, 16*

*Comprehensive core course in immunology. Topics include a broad but intensive examination of*



the cells and molecules of the immune system. Special attention given to the experimental approaches that led to general principles of immunology.

*Note:* Intended for students who have had prior exposure to immunology on the undergraduate level. In the absence of such exposure, students *must* obtain the permission of the Course Director. Offered jointly with the Medical School as IM 702.0.

*Prerequisite:* A background in genetics and biochemistry strongly recommended.

### **\*Immunology 202. Advanced Principles of Immunology**

Catalog Number: 5674

*Shiv S. Pillai (Medical School), Michael C. Carroll (Medical School) and members of the faculty*  
*Half course (spring term). Tu., Th., 1:30–3:30.*

Continuation of Immunology 201 as an intensive core course in fundamentals of the immune system. Emphasis on systems of immunity. Critical reading of primary literature.

*Note:* Offered jointly with the Medical School as IM 712.0.

*Prerequisite:* Immunology 201 or its equivalent

### **Immunology 204. Critical Readings for Immunology**

Catalog Number: 9563

*Anjana Rao (Medical School), Carl Novina (Medical School), Shannon Turley (Medical School), and associates*

*Half course (spring term). M., 1–4.*

Original research articles from fields including biochemistry, genetics, and cell and developmental biology will be critically analyzed in an intensive small group format. Grading will be based on class participation and one mid-term exam.

*Note:* Required for first-year immunology students, open to second-year immunology students. No auditors.

### **Immunology 206. Biology of Histocompatibility Systems in Man and Experimental Animals: Immunology of Aging**

Catalog Number: 0566

*Edmond J. Yunis (Medical School)*

*Half course (spring term). Tu., 9:30–12:30.*

Sizes of DNA blocks in genomes. Variability of sizes of DNA in chromosome six (major histocompatibility complex). Transplantation. Genetics of autoimmune diseases and longevity. Cancer genetics. Discussion of syntenic and paralogous chromosomal regions.

*Note:* A background in genetics would be helpful.

### **\*Immunology 219. The Primary Immunodeficiencies**

Catalog Number: 1873

*Cox Terhorst (Medical School) and Raif S. Geha (Medical School)*

*Half course (spring term). M., 4–6.*

This course discusses the mechanisms that underlie the pathogenesis of genetically determined primary human immunodeficiencies and selected human autoimmune diseases. Evaluates the use of animal models for study and therapy of human disease states.

*Note:* Given in alternate years. Offered jointly with the Medical School as IM 729.0. The two quarters may be taken together as a half course, or individually as a quarter course under



Immunology 300.

*Prerequisite:* Course in basic immunology.

### ***Graduate Courses of Reading and Research***

Primarily designed for work on a thesis problem, carried out under the supervision of the following faculty members whose special research interests are listed.

#### **\*Immunology 300. Advanced Topics in Immunology**

Catalog Number: 4739

*Michael C. Carroll (Medical School) 2050*

Reading and discussion seminars each running for a half term (7 weeks). Two seminars, which can be taken in different terms, are required for credit. Topics include the role of intracellular and transmembrane protein phosphates in signal transduction.

*Note:* Intended for first- and second-year Immunology graduate students. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Call 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

#### **\*Immunology 301. Immunology Seminar**

Catalog Number: 4971

*Michael C. Carroll (Medical School) 2050*

Gives students exposure to research topics in Immunology. Students prepare for the weekly seminar through readings and occasional discussion with the seminar speakers. These discussions are facilitated by members of the Committee on Immunology.

*Note:* Intended for first- and second-year Immunology graduate students.

#### **\*Immunology 302. Molecular Basis of Humoral Immunologic Inflammation**

Catalog Number: 1355

*K. Frank Austen (Medical School) 1571*

#### **\*Immunology 303. Immunity to Tuberculosis**

Catalog Number: 9490

*Samuel M. Behar (Medical School) 4570*

#### **\*Immunology 306. Immunochemical Aspects of Immune Reactions**

Catalog Number: 1536

*Stuart F. Schlossman (Medical School) 3593*

#### **\*Immunology 307. Immunobiology of Transplantation**

Catalog Number: 1609

*Charles B. Carpenter (Medical School) 2016*

#### **\*Immunology 308. Gene Regulation in the Immune Response**

Catalog Number: 6895

*Anjana Rao (Medical School) 1854*



**\*Immunology 309. Molecular Aspects of Lymphocyte Interactions**

Catalog Number: 3778

*Cox Terhorst (Medical School) 6280*

**\*Immunology 314. Immunobiology of Antigen-Antibody Complexes**

Catalog Number: 8065

*Peter H. Schur (Medical School) 4551*

**\*Immunology 315. Immunoregulation**

Catalog Number: 5540

*Martin E. Dorf (Medical School) 4541*

**\*Immunology 316. Molecular Basis of Immunologic Recognition and Communication**

Catalog Number: 3192

*Harvey Cantor (Medical School) 4460*

**\*Immunology 317. Molecular Biology of Receptor Transduction in the Immune System**

Catalog Number: 0518

*Brian Seed (Medical School) 7619*

**\*Immunology 319. Molecular Basis of Cell Adhesion and Migration**

Catalog Number: 0293

*Timothy A. Springer (Medical School) 6145*

**\*Immunology 323. Research in Molecular Immunology**

Catalog Number: 3425

*Laurie H. Glimcher (Public Health) 1362*

**\*Immunology 324. T-cell Development in Animal Models of Autoimmunity Disease**

Catalog Number: 1905

*Christophe O. Benoist (Medical School) 3928*

**\*Immunology 326. Human T-cell Antigen Receptor; Human Lymphocyte Differentiation Antigens**

Catalog Number: 6719

*Ellis L. Reinherz (Medical School) 1408*

**\*Immunology 327. Chemical Cell Biology**

Catalog Number: 0824

*Stuart L. Schreiber 2166*

**\*Immunology 328r. Introduction to Research**

Catalog Number: 5531

*Michael C. Carroll (Medical School) 2050*



**\*Immunology 329. Basic and Clinical Mechanisms of Autoimmunity**

Catalog Number: 0354

*Howard L. Weiner (Medical School) 1335*

**\*Immunology 330. Molecular Aspects of Mast Cells—Mediated Immune Responses**

Catalog Number: 7296

*Richard L. Stevens (Medical School) 2892*

**\*Immunology 331. Lymphoid Organs**

Catalog Number: 5725

*Joan E. Stein-Streilein (Medical School) 4769*

**\*Immunology 333. Immunopathogenesis of Viral Diseases**

Catalog Number: 2430

*Norman Letvin (Medical School) 2317*

**\*Immunology 335. T-Cell Receptor Interactions in Autoimmune Diseases**

Catalog Number: 4027

*David Hafler (Medical School) 2616*

**\*Immunology 336. T-Lymphocyte Recognition and Adhesion**

Catalog Number: 7292

*Michael B. Brenner (Medical School) 2864*

**\*Immunology 337. Development of Mucosal Immunologic Factor**

Catalog Number: 1320

*W. Allan Walker (Medical School, Public Health) 1175*

**\*Immunology 338. Signal Transduction in the Immune System**

Catalog Number: 5458

*Hamid Band (Medical School) 2867*

**\*Immunology 339. Function and Regulation of Cellular Adhesion Mechanisms**

Catalog Number: 7841

*Martin E. Hemler (Medical School) 2868*

**\*Immunology 340. The Human Major Histocompatibility Complex, Immune Function, and Disease**

Catalog Number: 6650

*Chester Alper (Medical School) 2951*

**\*Immunology 343. The Regulation of Eicosanoid Generation**

Catalog Number: 8593

*Jonathan P. Arm (Medical School) 4946*



**\*Immunology 344. Genetic Analysis of Lymphocyte Development and Nuclear Oncogene Function**

Catalog Number: 6438

*Frederick W. Alt (Medical School) 3146*

**\*Immunology 345. Assembly and Function of pre-B Cell-fate and B Lymphocyte Antigen Receptors**

Catalog Number: 0866

*Shiv S. Pillai (Medical School) 3393*

**\*Immunology 346. The Role of Complement in the Immune Response**

Catalog Number: 1755

*Michael C. Carroll (Medical School) 2050*

**\*Immunology 347. Mechanisms Underlying the Unique Ability of Antigen Presenting Cells to Activate Naive T Lymphocytes**

Catalog Number: 9833

*Marianne Boes (Medical School) 5385*

**\*Immunology 348. Cell Biology, Biochemistry, and Immunology of Leukocyte-endothelial Adhesion**

Catalog Number: 0901

*Francis W. Luscinskas (Medical School) 3772*

**\*Immunology 349. Mechanisms of T Cell and NK Cell Tolerance**

Catalog Number: 1241

*Megan Sykes (Medical School) 1131*

**\*Immunology 350. Regulation of Autoimmune T Cell Responses**

Catalog Number: 1916

*Vijay K. Kuchroo (Medical School) 2041*

**\*Immunology 354. Topics in Transplantation Biology**

Catalog Number: 1459

*David H. Sachs (Medical School) 1075*

**\*Immunology 356. Cytotoxic T Lymphocytes**

Catalog Number: 8232

*Judy Lieberman (Medical School) 1542*

**\*Immunology 357. T Cell-Epithelial Cell Interactions in Mucosal Community**

Catalog Number: 2111

*Richard S. Blumberg (Medical School) 2351*





**\*Immunology 358. Self-renewal and Lineage Commitment of Hematopoietic Stem Cells**

Catalog Number: 1619

*Koichi Akashi (Medical School) 5288*

**\*Immunology 359. Immunoregulatory Mechanisms Affecting the Development of Pulmonary Inflammation, Asthma, and Allergy in Mice and Humans**

Catalog Number: 3037

*Dale T. Umetsu (Medical School) 5289*

**\*Immunology 360. Focus on the Hematopoietic Stem Cell in the Context of AIDS and Cancer**

Catalog Number: 8952

*David T. Scadden (Medical School) 2649*

**\*Immunology 361. Induction and Regulation of Antigen-specific T Cell Responses**

Catalog Number: 7578

*Gilles A. Benichou (Medical School) 2652*

**\*Immunology 362. Basic Biology and Pathobiology of the Chemokine Superfamily of Cytokines**

Catalog Number: 3817

*Andrew D. Luster (Medical School) 2654*

**\*Immunology 363. Regulation of Mast Cell Activation by Stimulatory and Inhibitory Receptors**

Catalog Number: 6813

*Howard R. Katz (Medical School) 2837*

**\*Immunology 364. T-Cell Development in Animal Models of Autoimmunity Disease**

Catalog Number: 0972

*Diane J. Mathis (Medical School) 3063*

**\*Immunology 365. Mucosal T Cell Mediated Immunity and Tolerance**

Catalog Number: 4204

*Cathryn R. Nagler-Anderson (Medical School) 1022*

**\*Immunology 366. Molecular Regulation of T Cell Cytokine Production and T Cell Interactions with the Blood Vessel Wall**

Catalog Number: 6676

*Andrew H. Lichtman (Medical School) 3523*

**\*Immunology 367. Biology and Chemistry of Complement Problems**

Catalog Number: 8080

*Anne Nicholson-Weller (Medical School) 1063*



**\*Immunology 368. Cytotoxic Lymphocytes**

Catalog Number: 8986

*Paul J. Anderson (Medical School) 1947*

**\*Immunology 369. Mechanisms of Autoimmune Disease**

Catalog Number: 6787

*Vicki R. Kelley (Medical School) 2656*

**\*Immunology 371. Cellular and Molecular Mechanisms of Eosinophil and Other Leukocyte Involvement in Allergic Flammation**

Catalog Number: 3716

*Peter F. Weller (Medical School) 2657*

**\*Immunology 372. Mechanisms Graft Rejection: Allo and Xeno**

Catalog Number: 3207

*Hugh Auchincloss (Medical School) 2661*

**\*Immunology 373. Biology of Histocompatibility Systems in Man and Experimental Animals; Immunology of Aging**

Catalog Number: 6317

*Edmond J. Yunis (Medical School) 6036*

**\*Immunology 374. Tumor Necrosis Factor-Alpha Gene Regulation in the Immunopathogenesis of AIDS and TB**

Catalog Number: 4558

*Anne E. Goldfeld (Medical School) 1008*

**\*Immunology 375. Biology and Function of Immunoreceptors**

Catalog Number: 0510

*Jean-Pierre Kinet (Medical School) 2663*

**\*Immunology 376. Regulation of IgE Responses; Molecular Basis of Immunodeficiencies**

Catalog Number: 3618

*Raif S. Geha (Medical School) 1795*

**\*Immunology 377. Regulation of T Helper Cell Differentiation**

Catalog Number: 0458

*Michael Grusby (Public Health) 1987*

**\*Immunology 378. Basic Mechanisms of T cell Mediated Autoimmune Diseases**

Catalog Number: 2916

*Kai Wucherpfennig (Medical School) 2481*

**\*Immunology 379. Induction of Immunological Tolerance by Gene Therapy**

Catalog Number: 9300

*John J. Iacomini (Medical School) 2643*



**\*Immunology 380. Control of Leukocyte Trafficking and the Immune Response By Chemokines and Other Cytokines**

Catalog Number: 4872

*Barrett J. Rollins (Medical School) 3775*

**\*Immunology 381. Lymphocyte Development, Signaling, Immunoregulation**

Catalog Number: 0839

*Harald Von Boehmer (Medical School) 3302*

**\*Immunology 382. AIDS Immunopathogenesis and Immune Reconstitution**

Catalog Number: 0468

*Robert P. Johnson (Medical School) 6125*

**\*Immunology 383. Translational Approaches In Transplantation and Tumor Immunity**

Catalog Number: 4590

*Lee M. Nadler (Medical School) 3773*

**\*Immunology 385. Transcriptional Regulation of T Lymphocyte Activation and Differentiation**

Catalog Number: 1243

*I-Cheng Ho (Medical School) 2764*

**\*Immunology 388. Immunology and Molecular Biology of Schistosoma Mansoni**

Catalog Number: 5640

*Donald A. Harn (Public Health) 2051*

**\*Immunology 389. Development of Cancer Vaccines**

Catalog Number: 4106

*Glenn Dranoff (Medical School) 1821*

**\*Immunology 391. Transcription Factors in Lymphocyte Commitment and Differentiation**

Catalog Number: 5285

*Katia Georgopoulos (Medical School) 2070*

**\*Immunology 392. Dendritic Cells and the Initiation of Immune Responses; Genetic Analysis using Genome-Wide Mammalian RNAi Libraries**

Catalog Number: 0298

*Nir Hacohen (Medical School) 5157*

**\*Immunology 393. The Role of the Transcription Factor NF- $\kappa$ B in Regulating Innate Inflammatory Responses**

Catalog Number: 3287

*Bruce H. Horwitz (Medical School) 5158*

**\*Immunology 394. Cellular and Molecular Mechanisms by which CD1 Proteins Present Lipid Antigens to T Cells**



Catalog Number: 0938

*D. Branch Moody (Medical School) 5159*

**\*Immunology 396. The Fundamental Nature of and the Means to Produce T Cell Tolerance to Allo- and Auto-Antigens**

Catalog Number: 1812

*Terry B. Strom (Medical School) 5160*

**\*Immunology 397. Antigen Processing and Presentation by Dendritic Cells in Autoimmunity and Cancer**

Catalog Number: 3393

*Shannon Turley (Medical School) 5255*

***Medical Sciences***

***Primarily for Graduates***

**\*Medical Sciences 215. Integrated Human Physiology**

Catalog Number: 6359

*Richard M. Schwartzstein (Medical School) and members of the Faculty*

*Half course (fall term). M. through F., 8:30–12.*

Describes the physiological mechanisms underlying the functions and interactions of the major systems of the human body, including the cardiovascular, renal, gastrointestinal, respiratory, and endocrine systems. The course emphasizes the overall integration of physiological functions.

*Note:* Offered jointly with the Medical School as IN 712.0. Students taking the course for credit are expected to attend all course sessions. Permission of both the course director and the Medical School Registrar is required.

**\*Medical Sciences 250ab. Human Functional Anatomy**

Catalog Number: 6946 Enrollment: Limited to 48. Minimum 25.

*Lee Gehrke (Medical School)*

*Full course (fall term). Lectures, M., W., F., 1:30–2:30; laboratory, M., W., F., 2:30–6.*

Lectures, detailed laboratory dissections, and prosections provide a thorough exploration of the gross structure and function of the human body. Fundamental principles of embryology and bioengineering promote analytical approaches to understanding the body's design.

*Note:* Open to qualified graduate students with permission of the course director. Students must register with the course director before the first day of class. Offered jointly with the Medical School as HT 010.

***Graduate Courses of Reading and Research***

**\*Medical Sciences 300. Conduct of Science**

Catalog Number: 1815

*Thomas O. Fox (Medical School) 4542*



**\*Medical Sciences 399. Topics in Medical Sciences**

Catalog Number: 3197

*Thomas O. Fox (Medical School) 4542*

Subject selected by students and faculty member.

***Microbiology and Molecular Genetics***

All courses in Microbiology and Molecular Genetics are subject to limitation in enrollment and will not be offered unless there is sufficient demand.

***Primarily for Graduates***

**Microbiology 200. Molecular Microbiology and Pathogenesis**

Catalog Number: 7773

*Stephen Lory (Medical School), Dan G. Fraenkel (Medical School), and Roberto G. Kolter (Medical School)*

*Half course (spring term). M., W., F., 9–10:30.*

Devoted primarily to bacterial structure, physiology, genetics, regulatory mechanisms and pathogenesis. Class consists of lectures, presentations emphasizing methods, results and interpretation of classic and contemporary literature, guest seminars, and small group discussions of papers.

*Note:* Offered jointly with the Medical School as MG 726.0.

**\*Microbiology 205. Mechanisms of Microbial Pathogenesis**

Catalog Number: 2480 Enrollment: May be limited.

*Clyde S. Crumpacker II (Medical School) and associates*

*Half course (fall term). Tu., Th., 8:30–1.*

The mechanisms of bacterial, mycoplasmal, fungal, and viral pathogenesis are covered. Topics are selected for intrinsic interest and cover the spectrum of pathophysiologic mechanisms of the infectious process. Emphasis on pathogenesis at the molecular level.

*Note:* Offered jointly with the Medical School as HT 040.

**[Microbiology 209. Molecular Biology of Bacteria]**

Catalog Number: 2698 Enrollment: Limited to 12. Minimum of 8.

*Roberto G. Kolter (Medical School)*

*Half course (spring term). Hours to be arranged. One meeting per week.*

Provides in-depth coverage of bacterial development and genomics. Students research topics and prepare lectures. Lectures are followed by discussions of key publications. The specific topics covered vary every year depending on student interest.

*Note:* Expected to be given in 2006–07. Given in alternate years. Open to graduate and advanced undergraduate students. Contact the instructor at least two weeks before the start of spring term via email [rkolter@hms.harvard.edu](mailto:rkolter@hms.harvard.edu). Offered jointly with the Medical School as MG 727.0.

**\*Microbiology 212. Metabolism**

Catalog Number: 0598



*Dan G. Fraenkel (Medical School)*

*Half course (fall term). W., 3–6.*

Pathways and energy metabolism. A discussion course based on papers. In 2005 this course will deal with yeast, not bacteria.

*Note:* First session will meet for the full class period and assignments for the first session will be available on Sept. 13. Open to post-docs.

### **Microbiology 213. Social Issues in Biology**

Catalog Number: 7905

*Jonathan R. Beckwith (Medical School) and Roberto G. Kolter (Medical School)*

*Half course (spring term). Th., 1–4.*

Readings and discussion of social/ethical aspects of biology topics: history and philosophy of science; genetics and race; human behavior genetics; genetic enhancement; genetic testing; stem cell research; science journalism; science and the two cultures; science and the developing world.

*Note:* Offered jointly with the Medical School as MG 722.0.

*Prerequisite:* Some background in genetics.

### **Microbiology 230. Analysis of the Biological Literature**

Catalog Number: 3791

*Andrea I. McClatchey (Medical School), Jeffrey D. Parvin (Medical School) and members of the Faculty*

*Half course (fall term). Tu., Th., 4:30–7:30 pm.*

Critical analysis of original research articles in intensive small group discussions. Analyze range of papers in biochemistry, genetics, microbiology, and cell and developmental biology, in terms of background, hypothesis, appropriate use of experimental methods, and objective interpretation of results.

*Note:* Limited to and required of all first-year BBS students.

### ***Graduate Courses of Reading and Research***

Primarily designed for work on a thesis problem, carried out under the supervision of the following faculty members, whose special research interests are listed. Courses in parasitology are listed in the catalog of the Harvard School of Public Health (see Pathology).

#### **\*Microbiology 300. Advanced Topics in Microbiology and Molecular Genetics**

Catalog Number: 2304

*Michael Starnbach (Medical School) 1816*

A series of reading and discussion seminars, each running for a half term (7 weeks). Two seminars, which can be taken in different terms, are required for credit.

*Note:* Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0605 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

*Prerequisite:* Dependent on seminar.

#### **\*Microbiology 304. Molecular Pathogenesis of Streptococcal Infection**

Catalog Number: 9527

*Michael R. Wessels (Medical School) 4540*



**\*Microbiology 305. Molecular Determinants of Intracellular Bacterial Pathogenesis**

Catalog Number: 3190

*Darren E. Higgins (Medical School) 2963*

**\*Microbiology 307. Growth Factors and Signal Transduction**

Catalog Number: 5726

*Charles D. Stiles (Medical School) 4828*

**\*Microbiology 308. Bacterial Pathogenesis and Immune Responses**

Catalog Number: 4217

*Dennis L. Kasper (Medical School) 4815*

**\*Microbiology 310. Bacterial Genetics of Tuberculosis and Tularemia**

Catalog Number: 7652

*Eric J. Rubin (Medical School) 4084*

**\*Microbiology 311. Bacterial Genetics**

Catalog Number: 7402

*Jonathan R. Beckwith (Medical School) 1173*

**\*Microbiology 313. T-Lymphocyte Responses to Bacterial Pathogens**

Catalog Number: 4959

*Michael Starnbach (Medical School) 1816*

**\*Microbiology 315. Biochemical Mechanisms Controlling Cell Growth and Differentiation**

Catalog Number: 3273

*Michael E. Greenberg (Medical School) 1400*

**\*Microbiology 316. Host Pathogen Interactions**

Catalog Number: 7769

*Stephen Lory (Medical School) 4326*

**\*Microbiology 317. Molecular Mechanisms in Pathogenesis**

Catalog Number: 8985

*John J. Mekalanos (Medical School) 7315*

**\*Microbiology 318. RNA Structure, RNA-protein Interactions, and Translation-level Gene Regulation in RNA Viruses**

Catalog Number: 1205

*Lee Gehrke (Medical School) 8036*

**\*Microbiology 320. Molecular Biology of Herpes Viruses**

Catalog Number: 3967

*David M. Knipe (Medical School) 7089*





**\*Microbiology 321. Molecular Biology of Bacterial Interactions**

Catalog Number: 2903

*Roberto G. Kolter (Medical School) 7727*

**\*Microbiology 322. Biochemistry of Bacterial Toxins**

Catalog Number: 4970

*R. John Collier (Medical School) 7972*

**\*Microbiology 323. Molecular Genetic Analysis of Virulence Factors in Gram-Negative Pathogens and Construction of Recombinant Vaccines**

Catalog Number: 4931

*Stephen B. Calderwood (Medical School) 3520*

**\*Microbiology 324. Bacterial Pathogenesis and Vaccine Development**

Catalog Number: 3472

*Gerald Pier (Medical School) 2853*

**\*Microbiology 325. Signal Transduction, Host-Microbial Interactions and Immunology**

Catalog Number: 2839

*Scott Brian Snapper (Medical School) 4969*

**\*Microbiology 327. Molecular Biology and Evolution of Retroviruses**

Catalog Number: 7939

*Welkin E. Johnson (Medical School) 5354*

**\*Microbiology 328. Molecular Biology of Epstein Barr Virus Infection and Transformation of B Lymphocytes**

Catalog Number: 3188

*Elliott D. Kieff (Medical School) 1858*

**\*Microbiology 329. The Regulation of Gene Expression in Pathogenic Bacteria**

Catalog Number: 5892

*Simon L. Dove (Medical School) 4953*

**\*Microbiology 330. Molecular Mechanisms in Bacterial Differentiation**

Catalog Number: 5102

*David Z. Rudner (Medical School) 4968*

**\*Microbiology 331. Modeling Mechanisms of Bacterial Pathogenesis**

Catalog Number: 1929

*Cammie Lesser (Medical School) 4962*

**\*Microbiology 332. Gene Regulation of Prokaryotes**

Catalog Number: 0915

*Ann Hochschild (Medical School) 2314*



**\*Microbiology 334. Primate Lentiviral Immunology and Pathogenesis**

Catalog Number: 8398

*David T. Evans (Medical School) 5353*

**\*Microbiology 335. Molecular Biology of Parasites**

Catalog Number: 0528

*Dyann F. Wirth (Public Health) 2492*

**\*Microbiology 336. Pathogen-host Interactions**

Catalog Number: 3981

*Marcia Goldberg (Medical School) 3783*

**\*Microbiology 338. Pattern Recognition in Innate Immunity**

Catalog Number: 4424

*R. Alan Ezekowitz (Medical School) 1808*

**\*Microbiology 340. Herpes Virus Transformation and Gene Transfer Vector**

Catalog Number: 8544

*Jae Ung Jung (Medical School) 2048*

**\*Microbiology 342. Reovirus Structure, Assembly, and Particle Functions in Entry and RNA Synthesis**

Catalog Number: 4181

*Max L. Nibert (Medical School) 3896*

**\*Microbiology 343. Chemical Biology and Enzymology**

Catalog Number: 2963

*Suzanne Walker (Medical School) 5087*

**\*Microbiology 344. Chemistry and Biology of Host-Virus Interactions**

Catalog Number: 8853

*Priscilla Yang (Medical School) 5156*

***Neurobiology***

***Primarily for Graduates***

**[Neurobiology 200. Introduction to Neurobiology](#)**

Catalog Number: 6062 Enrollment: Limited to 45.

*David P. Corey (Medical School), John A. Assad (Medical School), Matthew P. Frosch (Medical School), and Lisa V. Goodrich (Medical School)*

*Half course (fall term). M., W., F., 9–12.*

Modern neuroscience from molecular biology to perception and cognition. Includes cell biology of neurons and glia; ion channels and electrical signaling; synaptic transmission and integration; chemical systems; brain anatomy and development; sensory systems; motor systems; higher cognitive function.



*Note:* Offered jointly with the Medical School as HT 130. Follows the Medical School calendar. Nine hours of lecture or lab/conference weekly.

### **Neurobiology 204. Neurophysiology of Central Circuits**

Catalog Number: 5603

*R. Clay Reid (Medical School), John A. Assad (Medical School), and Richard T. Born (Medical School)*

*Half course (spring term). M., W., 10–12.*

Introduction to the physiology of circuits in the mammalian central nervous system. Topics include the auditory, somatosensory, olfactory, visual and oculomotor systems.

*Note:* Offered jointly with the Medical School as NB 721.0.

*Prerequisite:* Neurobiology 220.

### **Neurobiology 207. Developmental Neurobiology**

Catalog Number: 4977 Enrollment: Limited to 20.

*Qiufu Ma (Medical School), Dietmar Schmucker (Medical School), and Rosalind A. Segal (Medical School)*

*Half course (spring term). Tu., Th., 3–5.*

Development of the nervous system. Topics include delineation of neural vs. non-neural tissues; axial and segmental patterning; cell lineage; specification of neuronal identity; axonal outgrowth and guidance; synapse formation and regression; hormonal influences on nervous system development.

*Note:* Offered jointly with the Medical School as NB 720.0.

*Prerequisite:* Neurobiology 200 or permission of instructor.

### **Neurobiology 209. Neurobiology of Disease**

Catalog Number: 5562

*Edward A. Kravitz (Medical School), Robert H. Brown (Medical School), and Walter J. Koroshetz (Medical School)*

*Half course (spring term). M., 4–6:30, W., 7–9:30 pm.*

Monday sessions involve patient presentations and “core” lectures describing clinical progression, pathology, and basic science underlying a major disease or disorder. Wednesdays, students present material from original literature sources, and there is general discussion.

*Note:* Given in alternate years. Offered jointly with the Medical School as NB 713.0. For advanced undergraduate and graduate students.

*Prerequisite:* Introductory neurobiology, biochemistry, and genetics/molecular biology recommended.

### **\*Neurobiology 220. Cellular Neurophysiology**

Catalog Number: 2141

*Bruce P. Bean (Medical School), Wade G. Regehr (Medical School), and Gary I. Yellen (Medical School)*

*Half course (fall term). Tu., Th., 9–12 and a weekly discussion section.*

Introduction to the physiology of neurons. Topics include structure and function of ion channels, generation and propagation of action potentials, and physiology of synaptic transmission.

Includes problem sets and reading of original papers.



*Note:* Offered jointly with the Medical School as NB 714.0.

*Prerequisite:* Introductory neurobiology.

**\*Neurobiology 221. Molecular Neurobiology**

Catalog Number: 0443

*Charles J. Weitz (Medical School), Jonathan B. Cohen (Medical School), Bernardo L. Sabatini (Medical School), and Thomas L. Schwarz (Medical School)*

*Half course (spring term). Tu., Th., 10–12.*

Introduction to the molecular biology and genetics of the nervous system. Emphasis on the importance of ligand-receptor interactions and receptor regulation for the function of the nervous system and on the mechanisms of storage and release of neurotransmitters.

*Note:* Offered jointly with the Medical School as NB 715.0.

*Prerequisite:* Introductory neurobiology and molecular biology.

***Graduate Courses of Reading and Research***

**\*Neurobiology 300. Advanced Topics in Neurobiology**

Catalog Number: 6206

*Larry I. Benowitz (Medical School) 3150 and associates*

Topics cover areas at the molecular, cellular, and systems levels in both basic and clinical neuroscience. A series of reading and discussion seminars, each running for a half term (seven weeks).

*Note:* Two seminars, which can be taken in different terms, are required for credit. Offered jointly with the Medical School as NB 719.0. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

**\*Neurobiology 304. Chemistry of Synapses**

Catalog Number: 5467

*Edward A. Kravitz (Medical School) 2063*

**\*Neurobiology 307. Investigation of Central Nervous System Pathways Regulating Autonomic & Neuroendocrine Function**

Catalog Number: 4961

*Joel K. Elmquist (Medical School) 3045*

**\*Neurobiology 308. Molecular Mechanisms of Catecholaminergic-specific Gene Regulation**

Catalog Number: 6125

*Kwang-Soo Kim (Medical School) 3046*

**\*Neurobiology 309. Quantitative Microscopic Approaches are used to Study Neural Circuitry in Schizophrenia and to Determine how Postnatal Ontogenesis may Contribute to the Onset of this Disorder**

Catalog Number: 3823

*Francine M. Benes (Medical School) 1869*



**\*Neurobiology 310. Neural Coding of Chemosensory Stimuli**

Catalog Number: 2408

*Rachel I. Wilson (Medical School) 5257*

**\*Neurobiology 311. Cellular and Molecular Studies of Synapse Formation in the Vertebrate Nervous System**

Catalog Number: 0081

*Joshua Sanes 5094*

**\*Neurobiology 312. The Study of Synaptic Competition by Visualizing Synaptic Rearrangements Directly in Living**

Catalog Number: 0082

*Jeff Lichtman 5163*

**\*Neurobiology 313. Molecular Neurobiology of the Biological Clock**

Catalog Number: 1758

*Charles J. Weitz (Medical School) 1139*

**\*Neurobiology 315. Neurotrophins and Cerebellar Development**

Catalog Number: 0128

*Rosalind A. Segal (Medical School) 1564*

**\*Neurobiology 316. Laboratory of Pain Physiology**

Catalog Number: 0222

*Rami Burstein (Medical School) 1294*

**\*Neurobiology 317. Auditory System**

Catalog Number: 4979

*Lisa V. Goodrich (Medical School) 4771*

**\*Neurobiology 318. Molecular Genetics of Cerebral Cortical Development**

Catalog Number: 0825

*Christopher A. Walsh (Medical School) 1560*

**\*Neurobiology 319. Neurological Control of Cell Growth and Differentiation**

Catalog Number: 2991

*Michael E. Greenberg (Medical School) 1400*

**\*Neurobiology 320. Neuroprotection and Neuronal Repair in Neurodegenerative Disease**

Catalog Number: 4825

*Ole S. Isacson (Medical School) 2077*

**\*Neurobiology 321. Higher Functions in the CNS**

Catalog Number: 5387

*Margaret S. Livingstone (Medical School) 1064*



**\*Neurobiology 322. Cellular and Molecular Mechanisms in Axon Guidance and Regeneration**

Catalog Number: 2873  
*Zhigang He (Medical School) 3910*

**\*Neurobiology 323. Synaptic Plasticity**

Catalog Number: 3209  
*Florian Engert 4290*

**\*Neurobiology 324. Research in Neuropeptide Gene Regulation**

Catalog Number: 4057  
*Joseph A. Majzoub (Medical School) 1875*

**\*Neurobiology 325. Synaptic Transmissions and Dendritic Processing**

Catalog Number: 2065  
*Wade G. Regehr (Medical School) 1606*

**\*Neurobiology 326. Age-Dependent Mechanisms of Perinatal Brain Injury**

Catalog Number: 2469  
*Frances E. Jensen (Medical School) 3940*

**\*Neurobiology 327. Rotations in Neurosciences**

Catalog Number: 5694  
*Gary I. Yellen (Medical School) 3268*

**\*Neurobiology 328. Mechanisms of Cell Death in Stroke and Trauma**

Catalog Number: 8967  
*Eng H. Lo (Medical School) 3049*

**\*Neurobiology 329. Molecular and Cell Biology of Alzheimer's Disease**

Catalog Number: 8816  
*Dennis J. Selkoe (Medical School) 2857*

**\*Neurobiology 330. To Establish Causal Relationships between Gene Expression in the Brain and Motivated Behavior**

Catalog Number: 6269  
*William A. Carlezon (Medical School) 3929*

**\*Neurobiology 331. Molecular Mechanisms that Control Neuronal Differentiation Nerve Growth and Regeneration in the Mammalian Brain and Retina**

Catalog Number: 9045  
*Dong Feng Chen (Medical School) 3930*

**\*Neurobiology 332. Ligand-Gated Ion Channels: Structure and Function**

Catalog Number: 1623  
*Jonathan B. Cohen (Medical School) 1120*



**\*Neurobiology 333. Intercellular Communication**

Catalog Number: 2484

*David L. Paul (Medical School) 2318*

**\*Neurobiology 335. Hair Cell Regeneration in the Avian Cochlea; Development of the Cochlear Sensory Epithelium**

Catalog Number: 7218

*Douglas Allen Cotanche (Medical School) 3933*

**\*Neurobiology 337. Neurobiology of the Human Circadian Pacemaker**

Catalog Number: 5322

*Charles A. Czeisler (Medical School) 7763*

**\*Neurobiology 338. Neural Circuitry of Primate Visual Cortex**

Catalog Number: 5634

*Richard T. Born (Medical School) 1787*

**\*Neurobiology 339. Mechanisms of Central Synaptic Transmission**

Catalog Number: 9322

*Vadim Bolshakov (Medical School) 4948*

**\*Neurobiology 340. Neuronal Interactions within the Retina; Processing of Visual Information; Development of the Retina**

Catalog Number: 5261

*John E. Dowling 3545*

**\*Neurobiology 342. Neurophysiology of Visual Cortex and LGN**

Catalog Number: 2778

*R. Clay Reid (Medical School) 2957*

**\*Neurobiology 343. Molecular Physiology of Ion Channels**

Catalog Number: 1887

*Gary I. Yellen (Medical School) 3268*

**\*Neurobiology 344. Neuropharmacology and Functional Anatomy of Basal Ganglia**

Catalog Number: 7327

*Anne B. Young (Medical School) 2896*

**\*Neurobiology 345. Molecular Basis of Neuron Glia Interactions**

Catalog Number: 4918

*Gabriel Corfas (Medical School) 2907*

**\*Neurobiology 346. Visual Processing in Primates**

Catalog Number: 0184

*John A. Assad (Medical School) 2985*





**\*Neurobiology 347. Alzheimer's Disease Research**

Catalog Number: 6606

*Bradley T. Hyman (Medical School) 2952*

**\*Neurobiology 348. Activity-Dependent Development of the Mammalian Visual System**

Catalog Number: 3224

*Carla J. Shatz (Medical School) 3796*

**\*Neurobiology 349. Olfactory and Vomeronasal Systems Molecular and Developmental Neurobiology**

Catalog Number: 1416

*Catherine Dulac 2801*

**\*Neurobiology 350. Molecular Genetics of Neuronal Development**

Catalog Number: 2038

*Constance L. Cepko (Medical School) 1150*

**\*Neurobiology 351. Neurogenetics of Disease**

Catalog Number: 3008

*Louis M. Kunkel (Medical School) 1330*

**\*Neurobiology 353. New Biology Through Physics: Molecular Discoveries with Light**

Catalog Number: 3689

*David E. Clapham (Medical School) 2987*

**\*Neurobiology 355. Neuronal Signal Transduction Pathways**

Catalog Number: 6914

*Christine L. Konradi (Medical School) 3942*

**\*Neurobiology 356. Ion Channels in Neural Cell Membranes**

Catalog Number: 8368

*David P. Corey (Medical School) 1345*

**\*Neurobiology 358. Neurogenetics of Human Disease**

Catalog Number: 7616

*Xandra O. Breakefield (Medical School) 1428*

**\*Neurobiology 360. Statistical Modeling and Stochastic Dynamical Systems Analysis of Neurophysiologic Systems**

Catalog Number: 8525

*Emery N. Brown (Medical School) 1399*

**\*Neurobiology 361. Immunobiology of the Nervous System and its Tumors**

Catalog Number: 7282

*Lois A. Lampson (Medical School) 2491*



**\*Neurobiology 363. Neural Development and Plasticity**

Catalog Number: 7089

*Larry I. Benowitz (Medical School) 3150*

**\*Neurobiology 364. Chemical Neuroanatomy of Autonomic Systems**

Catalog Number: 1523

*Clifford B. Saper (Medical School) 3394*

**\*Neurobiology 366. Functional Organization of the Retina**

Catalog Number: 7391

*Richard H. Masland (Medical School) 4923*

**\*Neurobiology 367. Neo-Cortical Development and Cellular Transplantation**

Catalog Number: 4252

*Jeffrey D. Macklis (Medical School) 3396*

**\*Neurobiology 368. The Neurobiology of Alzheimer's Disease and Related Neurodegenerative Disorders**

Catalog Number: 5054

*Bruce Yankner (Medical School) 1557*

**\*Neurobiology 369. Visual Processing**

Catalog Number: 1828

*Markus Meister 3007*

**\*Neurobiology 370. Characterization of Genes in Neurodegeneration**

Catalog Number: 8336

*Rudolph E. Tanzi (Medical School) 2683*

**\*Neurobiology 372. Neurotransmitter Control of Ion Channels**

Catalog Number: 7104

*Bruce P. Bean (Medical School) 1148*

**\*Neurobiology 373. Developmental Studies of the Murine Trigeminal Sensory System**

Catalog Number: 7485

*Qiufu Ma (Medical School) 3034*

**\*Neurobiology 374. Investigation of the Molecular Basis of Alzheimer's Disease & Parkinson's Disease Using Genetic Approaches in Mice**

Catalog Number: 9022

*Jie Shen (Medical School) 3059*

**\*Neurobiology 375. Mechanisms of Synaptic Transmission & Plasticity**

Catalog Number: 0790

*Venkatesh N. Murthy 2424*



**\*Neurobiology 376. Synaptic Transmission, Exocytosis and K<sup>+</sup> Channel Function**

Catalog Number: 2911

*Thomas L. Schwarz (Medical School) 3923*

**\*Neurobiology 377. Physiological Studies of Phototransduction and Light Adaptation**

Catalog Number: 6897

*Clint L. Makino (Medical School) 3946*

**\*Neurobiology 379. Growth Factor Regulation of Neural Development and Oncogenesis**

Catalog Number: 7751

*Scott L. Pomeroy (Medical School) 3947*

**\*Neurobiology 380. Functional Wiring of the Rabbit Retina, Control of Postnatal Development**

Catalog Number: 4965

*Elio Raviola (Medical School) 3582*

**\*Neurobiology 381. Mechanisms of Action of Neurotransmitters and Neuromodulators, Specifically Glutamate and Norepinephrine**

Catalog Number: 6912

*Paul Allen Rosenberg (Medical School) 3949*

**\*Neurobiology 382. The Role of the Hypothalamus and Particularly Melanin Concentrating Hormone in the Regulation of Energy Homeostasis**

Catalog Number: 1457

*Eleftheria Maratos-Flier (Medical School) 4327*

**\*Neurobiology 384. Structure, Function, and Biological Roles of Na, K-ATPase isoforms in Excitable Tissue**

Catalog Number: 5762

*Kathleen J. Sweadner (Medical School) 2148*

**\*Neurobiology 386. Changes in the Function, Chemistry and Structure of Sensory Neurons that Contribute to Pain**

Catalog Number: 7609

*Clifford Woolf (Medical School) 3956*

**\*Neurobiology 387. CNS Development & Tumorigenesis**

Catalog Number: 1406

*David H. Rowitch (Medical School) 3950*

**\*Neurobiology 389. Molecular Regulation of Neural Tube Development**

Catalog Number: 3914

*Mary R. Loeken (Medical School) 3151*



**\*Neurobiology 390. The Role of Dendritic Protein Translation in the Modification of Synapses**

Catalog Number: 9202

*Bernardo L. Sabatini (Medical School) 4300*

**\*Neurobiology 391. Diversity and Function of the Dscam Receptor**

Catalog Number: 7541

*Dietmar Schmucker (Medical School) 4332*

**\*Neurobiology 392. Synaptic Plasticity in the CNS using Electrophysiological and Calcium Imaging Techniques, as well as Genetically Altered Mouse Strains**

Catalog Number: 6750

*Chinfei Chen (Medical School) 4437*

**\*Neurobiology 393. Molecular Basis of Inherited Congenital Eye Movement Disorders and Implications for the Development of Brainstem Motorneurons**

Catalog Number: 3085

*Elizabeth C. Engle (Medical School) 4312*

**\*Neurobiology 397. Nervous System Construction and Function**

Catalog Number: 0158

*Samuel M. Kunes 3486 (on leave fall term)*

**\*Neurobiology 398. CNS and Cancer Gene Therapy**

Catalog Number: 4438

*Samuel D. Rabkin (Medical School) 4772*

***Pathology***

Eligible students interested in parasitology and tropical medicine should consult the courses offered by the Department of Tropical Public Health as listed in the catalog of the Harvard School of Public Health. For specific information regarding prerequisites and advisability, contact the office of the Department of Tropical Public Health, Harvard School of Public Health.

***Primarily for Graduates***

**\*Pathology 205. Molecular Biology of the Auditory System**

Catalog Number: 0211

*Anne Giersch (Medical School)*

*Half course (fall term). M., W., 5–6:30.*

Examines the exciting advances in inner ear genetics and molecular biology. Topics include identifying deafness genes, genes and proteins recently identified as critical for proper inner ear function, development, and regeneration.

*Note:* Given in alternate years.

*Prerequisite:* Introductory courses in neurobiology and molecular biology are recommended.



**\*Pathology 209. Tumor Pathophysiology and Transport Phenomena - A Systems Biology Approach**

Catalog Number: 5934

*Rakesh K. Jain (Medical School)*

*Half course (fall term). Hours to be arranged.*

Tumor pathophysiology plays a central role in the growth, metastasis, detection, and treatment of solid tumors. Principles of transport phenomena are applied to develop a quantitative understanding of tumor biology and treatment.

*Note:* Given in alternate years. Offered jointly with the HST Program as HT-525J and with the Medical School as PA 712.0.

**[Pathology 211. Pathology]**

Catalog Number: 8615

*Karl Münger (Medical School), Peter M. Howley (Medical School) and associates*

*Half course (spring term). Hours to be arranged.*

Introductory course covering fundamental pathogenic mechanisms underlying human disease disorders. Discusses a number of individual diseases, including cancer, neurodegenerative diseases and diseases of immune dysfunction. Faculty, expert in specific areas of pathophysiology, lead sessions.

*Note:* Expected to be given in 2006–07.

***Graduate Courses of Reading and Research***

Students are usually not eligible to enroll in one of these courses until they have completed their formal required course work. Research courses are primarily designed for research work on a student's thesis problem, carried out under the direct supervision of one of the following faculty members, whose special research interests are listed.

**\*Pathology 300. Advanced Topics in Pathology**

Catalog Number: 2245

*Patricia A. D'Amore (Medical School) 1168*

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

*Note:* Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

*Prerequisite:* Dependent on seminar.

**\*Pathology 302. Molecular Mechanisms of Leukocyte Trafficking**

Catalog Number: 2273

*Ulrich H. Von Andrian-Werburg (Medical School) 2090*

**\*Pathology 303. Viral Pathogenic and Transformation Mechanisms**

Catalog Number: 1644

*Peter M. Howley (Medical School) 1076*



**\*Pathology 304. Viral Carcinogenesis**

Catalog Number: 1283

*Thomas L. Benjamin (Medical School) 4115*

**\*Pathology 307. Endo- and Exocytosis of Membrane Proteins in Kidney Epithelial Cells**

Catalog Number: 7151

*Dennis Brown (Medical School) 1582*

**\*Pathology 308. Genetic Models of Human Disease**

Catalog Number: 1918

*Michael C. Carroll (Medical School) 2050*

**\*Pathology 309. Characterization of Inflammatory Cytokines**

Catalog Number: 1076

*Martin E. Dorf (Medical School) 4541*

**\*Pathology 310. Cellular and Molecular Regulation of Vascular Development**

Catalog Number: 2653

*Patricia A. D'Amore (Medical School) 1168*

**\*Pathology 311. Transcription Factor Activity and Regulation**

Catalog Number: 5846

*Grace Gill (Medical School) 1811*

**\*Pathology 312. Research in Molecular Cytogenetics**

Catalog Number: 7347

*Cynthia C. Morton (Medical School) 2194*

**\*Pathology 313. Research in Integrin Signaling, Cytoskeleton, and Control of Angiogenesis**

Catalog Number: 4139

*Donald E. Ingber (Medical School) 2832*

**\*Pathology 314. Molecular Biology of Immune Cell Interactions**

Catalog Number: 1156

*Timothy A. Springer (Medical School) 6145*

**\*Pathology 316. Control of Gene Expression in Tumorigenesis and Differentiation**

Catalog Number: 3892

*Thomas M. Roberts (Medical School) 7729*

**\*Pathology 319. Signaling and Gene Regulation in Lymphocytes**

Catalog Number: 1859

*Anjana Rao (Medical School) 1854*



**\*Pathology 321. Intracellular Signaling Mechanisms in Brain Development and Disease**

Catalog Number: 8032

*Azad Bonni (Medical School) 2923*

**\*Pathology 323. Viral Oncoproteins as Probes to Study the Regulation of Cell Growth and Differentiation**

Catalog Number: 6286

*Karl Münger (Medical School) 1586*

**\*Pathology 324. Regulation of T-cell Mediated Immune Response**

Catalog Number: 1501

*Arlene H. Sharpe (Medical School) 1588*

**\*Pathology 325. Transcriptional Control in Differentiation/Development and Tumorigenesis**

Catalog Number: 1509

*Yang Shi (Medical School) 3169*

**\*Pathology 326. Regulation of Mammalian Neurogenesis by the cdk5/p35 Kinase**

Catalog Number: 1563

*Li-Huei Tsai (Medical School) 1639*

**\*Pathology 327. Genetic Models of Leukemogenesis**

Catalog Number: 5534

*A. Thomas Look (Medical School) 3771*

**\*Pathology 329. Tissue-Specific Lymphocyte Homing and Diversity**

Catalog Number: 7366

*James J. Campbell (Medical School) 4438*

**\*Pathology 330. Transcriptional Regulations and Cellular Differentiation**

Catalog Number: 5521

*T. Keith Blackwell (Medical School) 1826*

**\*Pathology 331. Biochemistry of Bacterial Toxins**

Catalog Number: 2609

*Tucker Collins (Medical School) 1828*

**\*Pathology 332. Mechanisms Used by Small DNA Tumor Viruses to Disrupt Controls of Cellular Proliferation**

Catalog Number: 0445

*Nicholas J. Dyson (Medical School) 1829*

**\*Pathology 333. Models of Human Neurodegenerative Diseases in the Fruit Fly *Drosophila***

Catalog Number: 4845

*Mel B. Feany (Medical School) 4439*





**\*Pathology 334. Characterization of Tumor Suppressor Genes Implicated in Wilms Tumor and Breast Cancer**

Catalog Number: 5744

*Daniel A. Haber (Medical School) 1832*

**\*Pathology 335. Molecular Approaches to Cell Immortalization and Transformation**

Catalog Number: 2283

*William C. Hahn (Medical School) 4317*

**\*Pathology 338. Genetic and Biochemical Analysis of GTPase-mediated Signal Transduction Pathways**

Catalog Number: 2647

*Jeffrey E. Settleman (Medical School) 1820*

**\*Pathology 343. Cell Adhesion in Vascular Biology**

Catalog Number: 4822

*Denisa D. Wagner (Medical School) 2092*

**\*Pathology 346. Biochemistry of Gene Expression**

Catalog Number: 5912

*Jeffrey D. Parvin (Medical School) 2084*

**\*Pathology 347. Genetic, Molecular, and Cellular Analysis of Nervous System Function and Development**

Catalog Number: 7591

*Anne C. Hart (Medical School) 1010*

**\*Pathology 350. Topics in Vascular Biology**

Catalog Number: 0289

*Michael A. Gimbrone (Medical School) 1896*

**\*Pathology 351. Cytoskeleton in Cancer Development and Progression**

Catalog Number: 5656

*Andrea I. McClatchey (Medical School) 2204*

**\*Pathology 352. Recombination Functions of the BRCA Genes**

Catalog Number: 5001

*Ralph Scully (Medical School) 4536*

**\*Pathology 353. Cell Cycle Proteins in Development and Cancer**

Catalog Number: 1475

*Piotr Sicinski (Medical School) 2245*

**\*Pathology 354. Biochemistry of Transmembrane Receptors Interactions**

Catalog Number: 9969

*Stephen C. Blacklow (Medical School) 1462*



**\*Pathology 356. Biochemical and Genetic Analysis of Chromatin and Transcription**

Catalog Number: 8837

*Michael Pazin (Medical School) 2646*

**\*Pathology 359. Signal Transduction Pathways Involved in Cellular Proliferation and Apoptosis**

Catalog Number: 2841

*Roya Khosravi-Far (Medical School) 2704*

**\*Pathology 360. Biology and Genetics of Human Cancers**

Catalog Number: 0188

*Matthew L. Meyerson (Medical School) 2421*

**\*Pathology 361. The Molecular Causes of Aging**

Catalog Number: 6096

*David A. Sinclair (Medical School) 2610*

**\*Pathology 362. Gene Targeting, Immunology and Disease**

Catalog Number: 5290

*Klaus Rajewsky (Medical School) 4330*

**\*Pathology 364. Molecular Genetics of Erythroid Iron Metabolism**

Catalog Number: 5354

*Mark Daniel Fleming (Medical School) 4955*

**\*Pathology 365. Control of Endothelial Cell Fate and Vascular Development by Fluid Mechanical Forces**

Catalog Number: 4860

*Guillermo Garcia-Cardena (Medical School) 4956*

**\*Pathology 366. Phagocyte-endothelial Cell Responses in Inflammation**

Catalog Number: 4122

*Tanya Mayadas (Medical School) 4963*

**\*Pathology 367. Developing Mouse Models for Human Cancers**

Catalog Number: 2162

*Sandra Orsulic (Medical School) 4964*

**\*Pathology 368. Signaling Pathways in Cancer Cell Biology**

Catalog Number: 1919

*Alex Toker (Medical School) 4971*

**\*Pathology 369. Molecular Recognition and Protein Engineering**

Catalog Number: 8852

*J. Keith Joung (Medical School) 5149*



**\*Pathology 370. Cell Cycle Control and Ubiquitin-Mediated Proteolysis**

Catalog Number: 1354

*J. Wade Harper (Medical School) 4957*

**\*Pathology 371. Biology and Function of Tissue-Specific Stem Cells**

Catalog Number: 9993

*Amy Jo Wagers (Medical School) 5212*

**\*Pathology 372. DNA Damage Responses and Genomic Stability**

Catalog Number: 5604

*Lee Zou (Medical School) 5258*

**\*Pathology 373. Integration of Cellular Metabolism and Apoptosis**

Catalog Number: 8788

*Nika Danial (Medical School) 5393*

**\*Pathology 374. Signaling in Innate Immunity and Leukemia**

Catalog Number: 9911

*Hongbo Luo (Medical School) 5395*

***Pharmacology***

For courses pertaining to Pharmacology see listings under the Department of Biological Chemistry and Molecular Pharmacology.

***Virology***

***Primarily for Graduates***

**[Virology 200. Virology](#)**

Catalog Number: 1190

*Sean P.J. Whelan (Medical School) and James M. Cunningham (Medical School)*

*Half course (spring term). Tu., Th., 2:30–4.*

Course focuses on virus-host interactions. Topics include virus structure/replication, pathogenesis, evolution (“emerging viruses”), chronic infection and latency, innate and adaptive immunity, anti-viral drugs/vaccines. Weekly lecture, seminar (including invited outside faculty) and literature-based critical reading and discussion.

*Note:* Offered jointly with the Medical School as MG 723.0.

*Prerequisite:* For undergraduates, junior standing and permission is required.

**[Virology 201. Animal Virology: Seminar](#)**

Catalog Number: 6025

*Joseph G. Sodroski (Public Health), Michael R. Farzan (Medical School), Welkin E. Johnson (Medical School), Jae Ung Jung (Medical School), and Frederick C. Wang (Medical School)*

*Half course (fall term). W., 1:30–4:30.*



Students will evaluate and write research proposals in the areas of virus replication, viral pathogenesis and treatment and prevention of viral infections.

*Prerequisite:* General background in biochemistry and virology.

### **Virology 202. Critical Readings in Virology**

Catalog Number: 6075

*Karl Münger (Medical School) and Max L. Nibert (Medical School)*

*Half course (fall term). W., 3–5.*

Introduction to critical reading of the virology literature. Students must perform a laboratory rotation in parallel. Weekly writing and oral presentations of journal articles chosen by the faculty or proposals based on the laboratory rotations.

*Note:* Limited to first year Virology students

### ***Graduate Courses of Reading and Research***

#### **\*Virology 300r. Introduction to Research**

Catalog Number: 0530

*David M. Knipe (Medical School) 7089*

#### **\*Virology 301. Herpes Virus Interaction with the Host Cell**

Catalog Number: 7344

*David M. Knipe (Medical School) 7089*

#### **\*Virology 302. Molecular and Biological Aspects of Herpes Simplex Virus (HSV) Gene Expression, DNA Replication and Latency**

Catalog Number: 3147

*Priscilla A. Schaffer (Medical School) 4873*

#### **\*Virology 304. Molecular Biology of Kaposi's Sarcoma-Associated Herpes Virus**

Catalog Number: 8182

*Kenneth M. Kaye (Medical School) 3064*

#### **\*Virology 305. Transcriptional Regulation of Viral and Mammalian Genes**

Catalog Number: 5437

*Sean P.J. Whelan (Medical School) 4591*

#### **\*Virology 306. Structure and Function of Herpes virus DNA Polymerase and the HIV Reverse Transcriptase; Resistance to Antiviral Drugs in Clinical Viral Isolates and Mechanisms of Resistance and Pathogenesis**

Catalog Number: 6968

*Clyde S. Crumpacker II (Medical School) 1092*

#### **\*Virology 307. Genetics and Biochemistry of Prokaryotic Transposable Elements and Yeast Meiotic Chromosome Metabolism**

Catalog Number: 6097

*Nancy Kleckner 4697*



**\*Virology 308. Molecular Genetics of Herpes Virus**

Catalog Number: 3000

*Donald M. Coen (Medical School) 7617*

**\*Virology 309. Human Oncogenic Viruses**

Catalog Number: 4011

*Jack L. Strominger 1193*

**\*Virology 310. Cellular Transformation by SV40**

Catalog Number: 0221

*James A. DeCaprio (Medical School) 1296*

**\*Virology 311. Molecular Biology of Epstein-Barr Infection**

Catalog Number: 0513

*Frederick C. Wang (Medical School) 1297*

**\*Virology 312. Molecular Biology of Epstein-Barr Virus Infection and Transformation of B-Lymphocytes**

Catalog Number: 3483

*Elliott D. Kieff (Medical School) 1858*

**\*Virology 313. Molecular Basis for Simian Virus Pathogenesis**

Catalog Number: 2528

*Ronald C. Desrosiers (Medical School) 1874*

**\*Virology 315. Mechanisms of Transcriptional Repression in Eukaryotic Cells**

Catalog Number: 0462

*Yang Shi (Medical School) 3169*

**\*Virology 316. Assembly of Human Immunodeficiency Virus Virions**

Catalog Number: 6353

*Heinrich G.J. Gottlinger (Medical School) 1813*

**\*Virology 317. Virology and Immunology of Human Retroviruses**

Catalog Number: 0954

*Myron E. Essex (Public Health) 2499*

**\*Virology 319. Functional Analysis of Tumor Suppression Genes**

Catalog Number: 5817

*David Morse Livingston (Medical School) 4872*

**\*Virology 320. Pathogenesis of Human Retroviruses**

Catalog Number: 1532

*Joseph G. Sodroski (Public Health) 1712*



**\*Virology 321. Retroviral DNA Integration**

Catalog Number: 6857

*Alan N. Engelman (Medical School) 2196*

**\*Virology 322. HIV Molecular Biology and Pathogenesis**

Catalog Number: 9023

*Dana Gabuzda (Medical School) 1581*

**\*Virology 323. Immunobiology of the Epstein-Barr Virus Receptor; Pathogenesis of EBV and B-cell Tumors**

Catalog Number: 0778

*Joyce D. Fingerroth (Medical School) 2707*

**\*Virology 324. Leukemogenic Retroviruses**

Catalog Number: 5263

*James M. Cunningham (Medical School) 2346*

**\*Virology 325. Retroviral Pathogenesis; Host-Virus Interactions Including Virus-Induced Perturbation of the Developing Immune System; the Nature of Protective Anti-Retroviral Immune Responses in Primates**

Catalog Number: 8029

*Ruth M. Ruprecht (Medical School) 2716*

**\*Virology 326. Pathogenesis and Treatment of Human Retrovirus and Herpesvirus Infection**

Catalog Number: 6440

*Martin S. Hirsch (Medical School) 2876*

**\*Virology 328. Humoral Response to Retroviral Infections in Humans; Identification of Coding Sequence of Human Retroviruses and their Gene Products**

Catalog Number: 2513

*Tun-Hou Lee (Public Health) 2769*

**\*Virology 329. Cellular Immunology of Persistent Human Virus Infections**

Catalog Number: 5417

*Bruce D. Walker (Medical School) 2847*

**\*Virology 330. Critical Readings in Virology**

Catalog Number: 5966

*James A. DeCaprio (Medical School) 1296, Alan N. Engelman (Medical School) 2196, Philip W. Hinds (Medical School) 1584, Elliott D. Kieff (Medical School) 1858, and Karl Münger (Medical School) 1586*

*Half course (fall term). Tu., Th., 5–6:30.*

Critical evaluation of virology-related papers reporting a seminal contribution, strong methodological approaches, or in some cases due to errors in methodology or author



interpretation. Requirements include written critiques and class participation.

*Note:* Given in the month of January.

**\*Virology 332. Protein Phosphorylation and Gene Expression in Normal and Transformed Cells**

Catalog Number: 9093

*Raymond L. Erikson 7506 (on leave fall term)*

**\*Virology 333. Antiretroviral Drug Resistance, and Drug Resistant Human Immunodeficiency Virus**

Catalog Number: 5526

*Daniel R. Kuritzkes (Medical School) 4773*

**\*Virology 334. HIV-1 and Other Viruses**

Catalog Number: 3803

*Michael R. Farzan (Medical School) 4775*

**\*Virology 335. Use of Virologic, Biochemical, and Structural Approaches to Study Rotavirus Cell Entry**

Catalog Number: 0520

*Philip R. Dormitzer (Medical School) 4952*

## Medieval Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on Medieval Studies***

Nicholas Watson, Professor of English and American Literature and Language (*Chair*)

François Bovon, Frothingham Professor of the History of Religion (*Divinity School*)

Daniel G. Donoghue, John P. Marquand Professor of English

John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

Jeffrey F. Hamburger, Professor of History of Art and Architecture

Seamus Heaney, Ralph Waldo Emerson Poet in Residence

Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art (*on leave spring term*)

Thomas Forrest Kelly, Morton B. Knafel Professor of Music

Angeliki E. Laiou, Dumbarton Oaks Professor of Byzantine History (*on leave 2005-06*)

John E. Murdoch, Professor of the History of Science

Tomás Ó Cathasaigh, Henry L. Shattuck Professor of Irish Studies





Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science and of Studies of Women, Gender, and Sexuality

Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization (*on leave spring term*)

James Simpson, Professor of English and American Literature and Language (*on leave spring term*)

Christine Smith, Robert C. and Marian K. Weinberg Professor of Architectural History (*Design School*)

William P. Stoneman, Florence Fearing Librarian of the Houghton Library

R. J. Tarrant, Pope Professor of the Latin Language and Literature

Hugo van der Velden, Professor of History of Art and Architecture

Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin (*on leave 2005-06*)

### ***Other Faculty Offering Instruction in Medieval Studies***

Charles Donahue, Jr., Professor of Law (*Law School*) (*on leave 2005-06*)

Joachim Henning, Visiting Professor of History (*Goethe University*) (*fall term only*)

Beverly M. Kienzle, Professor of the Practice of Latin and Romance Languages (*Divinity School*) (*on leave 2005-06*)

Michael McCormick, Francis Goelet Professor of Medieval History (*on leave 2005-06*)

The Standing Committee on Medieval Studies exists in order to promote and coordinate work on medieval subjects broadly construed throughout the University, including Dumbarton Oaks in Washington, D.C., and I Tatti in Florence, as well as the various faculties and departments in Cambridge. Working in cooperation with the student-faculty Medieval Society, it sponsors events and activities of interest to medievalists. Among its most important activities are the frequent meetings of the Medieval Studies Seminar (Monday afternoons), the sporadic Special Seminars in Medieval Studies, and fostering the Medieval Studies Library in Widener. Its electronic mailing list is the most comprehensive guide to late antique, medieval, and Byzantine events at Harvard University and in the Boston area generally. No degree specifically in Medieval Studies is offered either on the undergraduate or on the graduate level, although it is possible to develop within many departmental programs an individual program emphasizing the medieval aspects of the field. A graduate student who wishes to follow an interdisciplinary doctoral program is required to enter and to work for at least a year in one of the regular departmental programs for the PhD. After a year, it is recommended that the student contact the Chairman of the Committee on Medieval Studies for guidance as to the alternatives available in Medieval Studies. With the assistance of the Committee on Medieval Studies, the student may petition the Dean of the Graduate School for permission to work under the guidance of a specially appointed Ad Hoc Committee in a specific area of Medieval Studies. If this petition is approved, the Ad Hoc Committee will supervise the graduate student's program through the completion of the doctorate. Specific questions concerning Medieval Studies on either the undergraduate or the graduate level and requests for the pamphlet on Medieval Studies and the annual list of courses on medieval topics should be addressed to the Chairman of the Committee, Robinson Hall 201. For more information and to receive the Medieval Studies Committee email on its frequent activities, contact [medieval@fas.harvard.edu](mailto:medieval@fas.harvard.edu) (and view its website at [www.fas.harvard.edu/~medieval](http://www.fas.harvard.edu/~medieval)).



***For Undergraduates and Graduates***

**[Medieval Studies 101. The Auxiliary Disciplines of Medieval History: Proseminar]**

Catalog Number: 3759

*Michael McCormick*

*Half course (fall term). Hours to be arranged.*

Familiarizes new scholars in art history, history, literature, and music with the research tools, techniques, and concepts required for advanced study of medieval evidence. “Medieval” ranges from Diocletian to the Renaissance, focusing on the Latin West but not neglecting Byzantium. Topics include an initiation to Latin palaeography, from the 6th to the 17th century, codicology, general heuristics, hagiography, late and medieval Latin philology, late antique studies, numismatics, and diplomatic.

*Note:* Expected to be given in 2006–07.

**[Medieval Studies 102. Intermediate Medieval Latin Palaeography and Manuscript Culture]**

Catalog Number: 7124 Enrollment: Limited to 12.

*Beverly M. Kienzle (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An introduction to Latin manuscripts and the historical and cultural context of their production and use. Includes a practical initiation to Latin palaeography, frequent visits to the Houghton Library and opportunities to work with both actual manuscripts and facsimiles of famous manuscripts, practice in transcribing previously unedited texts and discussion of problems in textual criticism. Student presentations on research projects.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2223/4330. Students work with William P. Stoneman, Florence Farrington Librarian of the Houghton Library.

*Prerequisite:* A 100-level Latin course or the equivalent or instructor’s permission.

**Medieval Studies 107. Art and Architecture in Western Europe, 950–1250**

Catalog Number: 9420

*Christine Smith (Design School)*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An introduction to selected works of architecture, sculpture, and painting from the revival of monumental building around the turn of the millennium to the gothic cathedral. Topics include Ottonian art; the Millennium; monasticism; pilgrimage; the idea of Antiquity; and the forging of new values. Emphasis on close examination of relatively few works in the context of each historical theme or problem, and on the diversity of cultural contexts and artistic manifestations.

*Note:* Offered jointly with the Graduate School of Design as GSD 4358. Meets at the Graduate School of Design, Gund Hall.

**[Medieval Studies 108. Art and Architecture in Italy, 1250–1520]**

Catalog Number: 2898

*Christine Smith (Design School)*

*Half course (spring term). Hours to be arranged.*

An introduction to Italian painting, sculpture, and architecture from ca. 1250 to 1520



emphasizing style and technique. The course is structured in three parts, each focusing on a single artist whose works are of outstanding historical and artistic significance and whose numerous interactions with artists working in other media, and activity in diverse centers of artistic production, indicate the broader range of artistic concerns and achievements of their time.  
*Note:* Expected to be given in 2006–07. Offered jointly with the Graduate School of Design as GSD 4402. Meets at the Graduate School of Design, Gund Hall.

**[Medieval Studies 117. Constitutional and Legal History of Medieval England]**

Catalog Number: 5468

*Charles Donahue, Jr. (Law School)*

*Half course (spring term). Hours to be arranged.*

A survey of the ideas and events that shaped the structure of English law and governance from the Anglo-Saxon invasions to the Reformation Parliament. Topics include the formation of the kingdom of England, the emergence of institutions of royal governance, the relations between church and state, the development of Parliament, and the various institutional reactions to political conflict and social change.

*Note:* Expected to be given in 2006–07. Normally alternates with History 1133. Offered concurrently, but with a separate section, at the Law School.

**[Medieval Studies 119. Constitutional and Legal History of Medieval Continental Europe]**

Catalog Number: 4410

*Charles Donahue, Jr. (Law School)*

*Half course (spring term). Hours to be arranged.*

A survey of the main outlines of continental European constitutional and legal history from the fall of the Roman Empire to the “Rise of absolutism” at the beginning of the 17th century. Focuses on the main expressions of European legal culture over this long period of time. In each period an effort is made to relate the types of law produced to the social, political, and religious history of the period.

*Note:* Expected to be given in 2007–08. Offered concurrently, but with a separate section, at the Law School.

**[Medieval Studies 125. The Spirit’s Voices: Holy Women in Medieval Christianity]**

Catalog Number: 3107

*Beverly M. Kienzle (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Prophets, preachers, scholars, teachers: the voices of medieval women through their writings, lives, manuscript illuminations, and music. Emphasis on careful analysis of primary texts from 1100 to 1500 and their cultural context. Thematic focus on inspiration from Scripture, the Spirit, and the saints. Attention to historiography and issues of gender, authorship, and authority.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2262.

***Primarily for Graduates***

**Medieval Studies 211. The Archaeology and History of European Towns, 500–1000**

Catalog Number: 8734 Enrollment: Limited to 15.

*Joachim Henning (Goethe University)*



*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

The first interdisciplinary seminar in medieval archaeology at Harvard will analyze comparatively archaeological and written evidence about particular towns in France, Germany, and England, their economic and social structures, and their connections with the countryside.

*Prerequisite:* Some combination of Latin, French, and German required.

### ***Cross-listed Courses***

For courses of additional interest, please look at courses taught by members of the Committee at the Graduate School of Design, Harvard Divinity School, and Harvard Law School.

[Arabic 120a. Intermediate Classical Arabic I](#)

[Arabic 120b. Intermediate Classical Arabic II](#)

[Arabic 146r. History of the Arabic Languages]

[Arabic 150r. History of Classical Arabic Literature]

[Arabic 160r. Readings in Arabic Historians, Geographers, and Biographers]

[Arabic 230a. Hadith I: Seminar](#)

[Arabic 240r. Classical Arabic Philology]

[Arabic 245r. Classical Arabic Literature: Seminar](#)

[Arabic 246r. Maghribi Literary and Cultural Texts: Seminar]

[Arabic 248r. Medieval Arabic Writings on Grammar: Seminar]

[Celtic 106. Folklore of Ireland]

[Celtic 107. Early Irish History]

[Celtic 113. Gaelic Women's Poetry](#)

[Celtic 114. Early Irish Historical Tales](#)

[Celtic 138. Narrative Traditions of Medieval Wales](#)

[Celtic 150. Celtic Paganism]

[Celtic 151. The Literature of Medieval Celtic Christianity](#)

[Celtic 184. The *Táin*]

[Celtic 200. Introduction to Old Irish](#)

[Celtic 201. Continuing Old Irish](#)

[Celtic 204r. Readings in Early Irish Poetry]

[Celtic 205r. Readings in Early Irish Prose]

[Celtic 208. Early Irish Society]

[Celtic 222. Early Irish Manuscript Tradition](#)

[Celtic 225a. Introduction to Middle Welsh]

[Celtic 225b. Continuing Middle Welsh]

[Celtic 226r. Readings in Middle Welsh](#)

[Celtic 227. Seminar: Welsh Bardic Poetry](#)

[Celtic 230r. Sources for Medieval Welsh Culture and Society]

[Comparative Literature 111. From Type to Self in the Middle Ages]

[\*Comparative Literature 210. Comparative Themes in the Literatures of Medieval Spain: Seminar]

[\\*Comparative Literature 211. Mysticism and Literature: Seminar](#)

[\*Comparative Literature 280. Literary Theory and Criticism in the Middle Ages: Seminar]

[English 101. The History and Structure of the English Language](#)



[English 102a. Anglo-Saxon Language and Culture: Historicizing the Past](#)

[English 112. The Invention of Middle English Literature](#)

[English 115b. Chaucer: \*The Canterbury Tales\*](#)

[\\*English 201. Images, Idolatry and Iconoclasm, 1350-1600: Graduate Seminar](#)

[\*English 206. Suffering History: Exemplary Lives in Later Medieval Literature: Graduate Seminar]

[\\*English 209. Necessary Truths: Piers Plowman and Christian Pedagogy: Graduate Seminar](#)

[\\*English 300hf. Old and Middle English: Doctoral Conference](#)

[\\*Folklore and Mythology 97b \(formerly \\*Folklore and Mythology 103\). Oral Literature and the History of Folkloristics](#)

[French 70a. Introduction to French Literature I: From the Middle Ages to Modernity](#)

[French 100. History of the French Language]

[French 102. Introduction to Medieval Literature and Old French]

[French 108. “Amours et armes”: A Study of Medieval Romances](#)

[French 112. From the Troubadour to the “Grand Rhétoriqueur”: Lyric Poetry in Medieval France (12th to 15th Century) ]

[French 213. In Search of a Medieval Subject](#)

[\\*Freshman Seminar 39g. The Book of Hours: Picturing Prayer in the Middle Ages](#)

[\\*Freshman Seminar 39n. Literature Humanities: Medieval and Modern Classics](#)

[\\*Freshman Seminar 39s. Arthurian Literature in Medieval Context](#)

[German 101. Introduction to Medieval Literature and Culture]

[German 105. The Life of the Senses: Sensation and Emotion Before Modernity](#)

[German 200 (formerly Germanic Philology 200). Introduction to Middle High German, Language, Literature, and Culture]

[German 215. Philosophical Mysticism: Eckhart and His Reflections in Modern German Thought: Seminar](#)

[German 225 (formerly Germanic Philology 225). History of the German Language]

[Government 1060. The History of Ancient and Medieval Political Philosophy](#)

[Hebrew 160. The Origins and Development of the Classical Jewish Liturgy]

[Hebrew 165. Maimonides’ Book of Knowledge and its Medieval Critics]

[Hebrew 168. Late Antique and Medieval Hebrew Poetry]

[Hebrew 171. The Problem of Language in Medieval Jewish Thought]

[Hebrew 174. Political Thought: Late Antiquity through the Middle Ages]

[Hebrew 217. The Medieval Torah Commentary: A Practical Introduction: Seminar]

[Historical Study A-27. Reason and Faith in the West](#)

[Historical Study A-40. The Middle East and Europe since the Crusades: Relations and Perceptions](#)

[Historical Study B-11. The Crusades]

[Historical Study B-13. Charlemagne and the Birth of Medieval Civilization]

[Historical Study B-19. The Renaissance in Florence](#)

[History 10a. Western Societies, Politics, and Cultures: From Antiquity to 1650](#)

[History 20b. Western Intellectual History: The Middle Ages to the Seventeenth Century]

[History 90a. Major Themes in Medieval History](#)

[\\*History 90b. Thought and Culture in the European Renaissance and Reformation](#)

[History 1101. Medieval Europe](#)



[History 1140. Introduction to Medieval Archaeology](#)

[History 1142. Carolingian Civilization](#)

[History 1143. Microhistorical Approaches to the Middle Ages: Conference Course](#)

[History 1150. The Jews in Muslim and Christian Spain](#)

[History 1158. The Mediterranean in the Late Middle Ages, 1204-1500: Conference Course]

[History 1166. Family, Sex, and Marriage in Western Europe, East and West in the Medieval and Early Modern Period: Conference Course]

[History 1212. The Imperial System: Byzantine Society and Civilization, 8thc.-1204: Conference Course]

[History 1216. Renaissance Venice: Conference Course](#)

[History 1877a. History of the Near East, 600-1055](#)

[History 1877b. History of the Near East, 1055-1517: Conference Course]

[History 1942. The Historiography of Reformation Europe, 1450-1650: Conference Course](#)

[\\*History 2101. Medieval Societies and Cultures: Proseminar](#)

[\*History 2120. Problems in Byzantine History: Proseminar]

[History 2122. Early Medieval History: Seminar: Communications in the Early Medieval Mediterranean]

[History 2126. Medieval Law]

[History 2271r. Topics in Byzantine History: Seminar]

[History 2310. Problems in Late Medieval and Early Modern Europe 1250-1750: Seminar]

[History 2312. The German Family, 1250-1750: Seminar]

[History 2884. Topics in Ottoman Social and Cultural History: Seminar](#)

[History 2886r. Topics in Islamic History: Seminar](#)

[\\*History and Literature 97. Tutorial — Sophomore Year](#)

[History of Art and Architecture 1a. Survey of World Art]

[\\*History of Art and Architecture 124z. Architecture and Dynastic Legitimacy: The Early Modern Islamic Empires \(1450-1650\)](#)

[\\*History of Art and Architecture 140h \(formerly History of Art and Architecture 40\). Court and Cloister in the Later Middle Ages](#)

[\\*History of Art and Architecture 143m. The Art of the Court of Constantinople](#)

[History of Art and Architecture 144x. Topics in Early Christian Art]

[History of Art and Architecture 152e. Fountains of Central Italy, c. 1270-1750](#)

[History of Art and Architecture 155. Problems in Northern Renaissance Art]

[\\*History of Art and Architecture 224m. Drawing in the Pre-Modern Islamic World](#)

[\\*History of Art and Architecture 226e. Cross-Cultural Artistic Exchanges: Islamic and European Courts](#)

[History of Art and Architecture 240r. Byzantine Art]

[\\*History of Art and Architecture 241n. Image-Text-Context](#)

[History of Art and Architecture 242. Issues of Interpretation in Medieval Art]

[\\*History of Art and Architecture 245. Jan and Hubert van Eyck: The Ghent Altarpiece](#)

[History of Art and Architecture 282y. The Visual Culture of Relics in East Asia]

[History of Science 107. History of Medieval Science]

[History of Science 112. Medicine and Society in Medieval and Renaissance Europe](#)

[\\*History of Science 207r. Medieval Science: Seminar](#)

[History of Science 215. Science and Culture in Late Medieval and Early Modern Europe:](#)





## Seminar

History of Science 297r. Topics in the History of Medieval Latin Science

\*History of Science 298r. The Establishment of Medieval Latin Scientific and Philosophical

## Texts: Seminar

[Italian 120b. Dante's *Purgatorio* and *Paradiso*]

[Italian 141. Renaissance Epic: Power, Imagination, and the Making of Modernity]

[Italian 220. Poesia del '200]

Italian 230. Petrarca and the Divided Self

Japanese History 211. Introduction to Ancient and Medieval Japanese Historical Sources

Latin 3m. Latin Prose Selections (Late Antique and Medieval)

Latin 4m. Introduction to Latin Poetry (Late Antique and Medieval)

Linguistics 158r. From Indo-European to Old Irish

[Linguistics 168. Introduction to Germanic Linguistics]

Linguistics 250. Old Church Slavonic

[Literature and Arts A-11. Arthurian Literature: Epic versus Romance]

Literature and Arts A-26. Dante's *Divine Comedy* and Its World

Literature and Arts A-70. The Book of Job and the Joban Tradition

Literature and Arts B-35. The Age of Sultan Suleyman the Magnificent: Art, Architecture, and Ceremonial at the Ottoman Court

[Literature and Arts B-43. The Gothic Cathedral]

Literature and Arts C-20. The Hero of Irish Myth and Saga

[Literature and Arts C-22. European Culture in the Middle Ages]

[Literature and Arts C-25. The Medieval Stage]

[Literature and Arts C-43. The Medieval Court]

Medieval Greek 115ar. Introduction to Byzantine Greek

Medieval Greek 120. Readings in the Cappadocian Fathers

[Medieval Greek 125. Byzantine Religious Tales]

Medieval Greek 185. Workshop in Greek Paleography

[Medieval Latin 105. The Poems of Walter of Aquitaine]

[Medieval Latin 120. Wisdom and Learning]

[Medieval Latin 150. Abelard and Heloise]

[Modern Greek 204. Satire and Parody in the Greek Tradition from Lucian to Skatablattas]

Music 191r. Topics in Medieval and Renaissance Music: Proseminar

Music 212r. Chant: Seminar

Music 214r. Renaissance Music: Seminar

Religion 1434. History of Western Christianity, 300–1100

Religion 1437. History of Western Christianity: 1100–1500

[Religion 1438. The Friars and Their World, ca. 1100–1325]

[Religion 1491. Themes in Christian "Spirituality": Theories of Prayer, Self and Gender]

[Religion 2426. Editing Greek Christian Literature: Seminar]

[Religion 2475. Teresa of Avila and John of the Cross: 'Mystical Theology,' Epistemology and Gender: Seminar]

Romance Studies 82. The Middle Ages at the Movies

[Scandinavian 60. Viking Age and Medieval Scandinavian Literature and Culture]

Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy





**Scandinavian 160br (formerly Scandinavian 160b). Old Norse Language, Literature, and Culture: Mythology**

**[Slavic 192 (formerly Slavic 179). Literature as Institutions: Conference Course]**

**Slavic 280r. Slavic Culture: Seminar**

**[Slavic 291. Problems in the History of Early Ukrainian Literature]**

**Slavic 295. The Language of Medieval Novgorod: Seminar**

**Spanish 70a. Hispanic Literature: Spanish Literature from the Origins to 1700**

**Spanish 120. Medieval Spain in the *Poem of the Cid***

**Spanish 201. The History of the Spanish Language**

**[Spanish 204 (formerly Spanish 104). Love and Power in 14th-Century Castille: Juan Ruiz and Juan Manuel]**

## Middle East Program

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Middle Eastern Studies*

Steven C. Caton, Professor of Contemporary Arab Studies (*Chair*) (*on leave 2005-06*)

E. Roger Owen, A. J. Meyer Professor of Middle East History (*Acting Chair*)

Leila Ahmed, Victor S. Thomas Professor of Divinity (*Divinity School*) (*on leave 2005-06*)

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Sugata Bose, Gardiner Professor of Oceanic History and Affairs (*on leave 2005-06*)

Byron J. Good, Professor of Medical Anthropology (*Medical School*)

Mary-Jo Del Vecchio Good, Professor of Social Medicine (*Medical School*)

William A. Graham, Jr., Murray A. Albertson Professor of Middle Eastern Studies (*FAS*) and John Lord O'Brian Professor of Divinity (*Divinity School*)

Wolfhart P. Heinrichs, James Richard Jewett Professor of Arabic (*on leave spring term*)

Michael Herzfeld, Professor of Anthropology

Engseng Ho, Frederick S. Danzinger Associate Professor of Anthropology and of Social Studies

Cemal Kafadar, Vehbi Koc Professor of Turkish Studies

Miri Kubovy, Professor of the Practice of Near Eastern Languages and Civilizations

Roy Mottahedeh, Gurney Professor of History

Afsaneh Najmabadi, Professor of History and of Studies of Women, Gender, and Sexuality (*on leave spring term*)

Gülru Necipoglu-Kafadar, Aga Khan Professor of Islamic Art

Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)

David J. Roxburgh, Professor of History of Art and Architecture (*on leave fall term*)

A. Hashim Sarkis, Aga Kahn Professor of Landscape Architecture and Urbanism in Muslim



### Societies (*Design School*)

Wheeler M. Thackston, Jr., Professor of the Practice of Persian and Other Near Eastern Languages

Frank E. Vogel, Assistant Professor of Law (*Law School*)

The Center for Middle Eastern Studies was established for the purpose of integrating and reinforcing instruction and research in the languages, literatures, history, economics, and cultures of North Africa, the Middle East, and Islamic Central and South Asia, with the emphasis on the modern period. The Committee on Middle Eastern Studies is the degree committee that administers programs offered through the Center. To achieve its goals, the Center cooperates with departments within the Faculty of Arts and Sciences and with other faculties that have Middle Eastern interests, other regional studies centers, and various libraries and museums that hold collections related to Middle Eastern and Islamic studies. The Center's aim is to offer a comprehensive program to provide integrated training for those planning careers in education, government service, or private industry, and to support research on the area.

The following degree programs are offered through the Center: Regional Studies Program—Middle East (AM): The program for this degree requires two years of study, leading to an AM. It seeks to give the student both a broad background and a special competence in selected fields of Middle Eastern studies. Each student's needs and interests, as well as previous experience and qualifications, are taken into account in planning his or her course of study. This program is comparable to other regional studies programs, such as those for Russia and East Asia.

Joint Programs for the PhD: The Faculty of Arts and Sciences has approved joint programs with other faculty departments for the degree of PhD in Middle Eastern studies and in the fields of anthropology, fine arts, or history. A candidate for a joint PhD degree is usually expected to have completed an AM program in Middle Eastern studies or another relevant field, at Harvard or elsewhere, prior to admission as a doctoral candidate. Joint or concurrent degrees with other departments and faculties are possible on an *ad hoc* basis.

Languages: Competency in one or more of the languages of the Middle East is critical to advanced studies in this field. The master's program requires all students to attain a reading and speaking competence, at least at the intermediate level, in one of the major modern Middle Eastern languages: Arabic, Hebrew, Persian, or Turkish. Students who already have an adequate knowledge of one such language, and native speakers, will be required to study a second language. The PhD programs vary in their language requirements. In most cases, students must attain a thorough knowledge of a modern Middle Eastern language (see above), as well as a reading knowledge of one of the European languages: German, French, Italian, or Russian. In the History and Middle Eastern Studies Program, a written exam will be required in the language of the candidate's primary research, covering both primary and secondary sources in that language. As in the master's program, native speakers of Middle Eastern languages will be required to attain competence in a second Middle Eastern language. (For specific details on language requirements and language proficiency examinations, see the degree supplement *Degree Programs in Middle Eastern Studies*. Please note that the departments involved in the joint PhD programs, as well as the Committee on Middle Eastern Studies, at times revise their language requirement policies. Students are expected to keep in touch with their advisors and relevant



language instructors at all times so they may be informed of possible changes to those requirements.)

Courses: Middle Eastern-related courses are offered in the Department of Near Eastern Languages and Civilizations—courses in Akkadian, Ancient Near East, Arabic, Aramaic, Armenian, Armenian Studies, Early Iranian Civilizations, Ethiopic, Hebrew (Classical and Modern), Hebrew Literature and History, Iranian, Islamic Civilizations, Near Eastern Civilizations, Persian, Postbiblical Jewish Studies, Semitic Philology, Sumerian, and Turkish; and the Department of History—courses in Byzantine, Islamic, Judaic, and modern Middle Eastern history. Other appropriate courses are offered in the departments of Anthropology, Classics, Comparative Literature, the Core Curriculum, Fine Arts, Government, Linguistics, Music, Psychology, Sanskrit and Indian Studies, Slavic Languages and Literatures, Sociology, and the Study of Religion. Middle Eastern-related courses are also taught in the graduate schools of Business, Design, Divinity, Law, and Government. For more information about these programs, please refer to the degree supplement, *Degree Programs in Middle Eastern Studies*.

## Mind, Brain, and Behavior

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Mind, Brain, and Behavior*

John E. Dowling, Gordon and Llura Gund Professorship of Neurosciences (FAS) and Professor of Ophthalmology (Medical School) (Co-Chair)

Richard W. Wrangham, Ruth Moore Professor of Biological Anthropology (Co-Chair)

John A. Assad, Associate Professor of Neurobiology (Medical School)

Mahzarin R. Banaji, Richard Clarke Cabot Professor of Social Ethics (FAS) and Carol K. Pforzheimer Professor (Radcliffe Institute)

Cedric Boeckx, Assistant Professor of Linguistics

Susan E. Carey, Henry A. Morss, Jr. and Elizabeth W. Morss Professor of Psychology

Verne S. Caviness, Jr., Joseph P. and Rose F. Kennedy Professor of Child Neurology and Mental Retardation (Medical School)

Peter T. Ellison, John Cowles Professor of Anthropology (on leave 2005-06)

Florian Engert, Assistant Professor of Molecular and Cellular Biology

Kurt W. Fischer, Professor of Education (Education School)

Albert M. Galaburda, Professor of Neurology (Medical School)

Howard E. Gardner, Professor of Education (Education School)

David A. Haig, George Putnam Professor of Organismic and Evolutionary Biology

Anne Harrington, Harvard College Professor and Professor of the History of Science



Marc D. Hauser, Harvard College Professor and Professor of Psychology  
 Jill M. Hooley, Professor of Psychology  
 C.-T. James Huang, Professor of Linguistics  
 Kenneth S. Kosik, Professor of Neurology (*Medical School*)  
 Edward A. Kravitz, George Packer Berry Professor of Neurobiology (*Medical School*)  
 Jeff Lichtman, Professor of Molecular and Cellular Biology  
 Richard J. McNally, Professor of Psychology  
 Venkatesh N. Murthy, Morris Kahn Associate Professor of Molecular and Cellular Biology  
 Avrom J. Pfeffer, Associate Professor of Computer Science on the Gordon McKay Endowment  
 Naomi E. Pierce, Sidney A. and John H. Hessel Professor of Biology (*on leave 2005-06*)  
 Steven Pinker, Johnstone Family Professor of Psychology  
 Maryellen Ruvolo, Professor of Anthropology (*on leave fall term*)  
 Joshua Sanes, Professor of Molecular and Cellular Biology  
 Susanna Siegel, John L. Loeb Associate Professor of the Humanities, Professor of Philosophy  
 Elizabeth S. Spelke, Marshall L. Berkman Professor of Psychology  
 Garrett B. Stanley, Associate Professor of Biomedical Engineering on the Gordon McKay Endowment  
 Robert A. Stickgold, Assistant Professor of Psychiatry (*Medical School*)  
 Mark Tramo, Assistant Professor of Neurology (*Medical School*)

The Committee on Mind, Brain, and Behavior is an interdisciplinary group of scholars appointed to coordinate the teaching of neuroscience and related fields among Harvard's departments. Working closely with the University's Mind, Brain, and Behavior Interfaculty Initiative, the Committee is designed to advance knowledge of neuroscience at multiple levels of analysis ranging from the molecular events within individual neurons to the behavior of organisms (including man) in a wider environmental and social context. The Committee: 1) coordinates the wide and varied course offerings that address methods, findings, and theory in neuroscience; 2) helps students learn of opportunities within the various fields allied with neuroscience; and 3) promotes interdisciplinary interaction among members of these fields.

For undergraduate students wishing to specialize in an area related to the neurosciences, seven concentrations offer specialized tracks: Anthropology offers a Mind/Brain/Behavior track within its Biological Anthropology program; Biology offers a Neurobiology track; Computer Science offers a Computational Neuroscience track; History and Science offers a Mind, Brain, and Behavioral Sciences track; Linguistics offers a Mind/Brain/Behavior track; Philosophy offers a Mind/Brain/Behavior track; and Psychology offers a Cognitive Neuroscience track. Foundation courses are required or recommended each year in all tracks so that students in the seven concentrations can interact. The foundation courses include Science B-29, Evolution of Human Nature (first year); Biological Sciences 80, Behavioral Neuroscience (sophomore year); one of several designated seminars (junior year); and a senior thesis event or series of workshops (senior year). For the requirements of each track, consult <http://mbb.harvard.edu/Information—Undergraduates.html>.

The courses listed below address various facets of neuroscience or topics closely related to the study of mind, brain, and behavior. Complete descriptions may be found under the various departments.



Additional course listings will appear in the booklet *Courses in Mind/Brain/Behavior*.

### *Courses of Interest*

[Anthropology 1310 \(formerly Anthropology 111\). Behavioral and Reproductive Endocrinology](#)

[Anthropology 1320 \(formerly Anthropology 131\). Hunter-Gatherers](#)

[Anthropology 1330 \(formerly Anthropology 106\). Primate Social Behavior](#)

[Anthropology 1340 (formerly Anthropology 134). Race and Racism in Evolutionary Perspective ]

[Anthropology 1370 \(formerly Anthropology 137\). Evolution and Human Behavior](#)

[\\*Anthropology 1375. Testosterone and Human Behavior](#)

[Anthropology 1380 \(formerly Anthropology 138\). The Behavioral Biology of Women](#)

[Anthropology 1410 \(formerly Anthropology 114\). Evolution of Human Sexuality: Research Seminar](#)

[\\*Anthropology 1418 \(formerly \\*Anthropology 118\). Endocrinology and Behavior: Research Seminar](#)

[Anthropology 1560r (formerly Anthropology 181r). Biology of Aggression]

[Anthropology 2660 (formerly Anthropology 221). The Anthropology of Knowledge: Seminar]

[Anthropology 2740 \(formerly Anthropology 245\). Culture and Mental Illness](#)

[Anthropology 2750 \(formerly Anthropology 250\). Local Biologies: Perspectives on the Interaction Between Culture and Biology](#)

[\\*BCMP 213. Behavioral Pharmacology](#)

[BCMP 230. Principles and Practice of Drug Development](#)

[Biological Sciences 57. Animal Behavior](#)

[Biological Sciences 80. Behavioral Neuroscience](#)

[\\*Biology 95hfd. Problem Solving in Neuroscience: An Interactive Case-Based Online Network \(ICON\)](#)

[\\*Biology 95hfe. How Genes, Neural Systems, and Activity Shape Behavior](#)

[\\*Biology 95hfk. Mechanisms of Neurological Disease](#)

[\\*Biology 95hfm. The Mammalian Retina: Anatomy, Function, and Diseases](#)

[Business Studies 2000ab. Management and Markets: Human Behavior and Administration](#)

[Business Studies 2630. Consumer Behavior](#)

[Computer Science 181. Intelligent Machines: Perception, Learning, and Uncertainty](#)

[Computer Science 182. Intelligent Machines: Reasoning, Actions, and Plans](#)

[Computer Science 187. Computational Linguistics](#)

[Computer Science 228. Computational Learning Theory]

[Computer Science 281r. Artificial Intelligence: Reasoning and Planning Systems]

[Computer Science 282. Probabilistic Reasoning](#)

[Computer Science 283. Computer Vision](#)

[Computer Science 285. Multi-agent Planning Systems]

[Computer Science 287r. Natural Language Processing]

[Computer Science 288. Computational Models of Discourse](#)

[Economics 1030. Psychology and Economics]



[Economics 2030. Psychology and Economics]  
[Engineering Sciences 145. Introduction to Systems Analysis with Physiological Applications](#)  
[Engineering Sciences 148. Neural Signal Processing](#)  
[Engineering Sciences 157. Speech and Audio Processing](#)  
[Engineering Sciences 217. Computational Neuroscience ]  
[Engineering Sciences 218. Advanced Neural Signal Processing](#)  
[\\*Freshman Seminar 21j. Human Evolution](#)  
[\\*Freshman Seminar 21o. The Neurophysiology of Visual Perception](#)  
[\\*Freshman Seminar 22k. Can Machines Think? The Turing Test and the Possibility of Natural-Language Interaction with Computers](#)  
[\\*Freshman Seminar 24x. Global Mental Health](#)  
[\\*Freshman Seminar 25w. Responsibility, the Brain, and Behavior](#)  
[\\*Freshman Seminar 36z. Utopia and Anti-Utopia](#)  
[\\*Freshman Seminar 38e. Madness and the Creative Imagination: Literary and Biomedical Perspectives](#)  
[\\*Freshman Seminar 39x. How to Design a Communication System: Human, Animal, and Artificial Languages](#)  
[German 147. Nietzsche]  
[Government 10. Introduction to Political Thought](#)  
[Government 1370. Psychology of Politics in the US](#)  
[History 1444. John Locke: Conference Course]  
[History 1454. French Social Thought from Rousseau to Foucault and Beyond](#)  
[History 1470. European Intellectual History]  
[History 1471. The Thought of Martin Heidegger]  
[History 1472. Epistemic Regimes: Conference Course]  
[History 1666. The World of William James: Conference Course](#)  
[History of Science 171. Narrative and Neurology]  
[History of Science 175. Madness and Medicine: Themes in the History of Psychiatry](#)  
[History of Science 176. Evolution and Human Nature: Conference Course](#)  
[History of Science 177. Stories Under the Skin: The Mind-Body Connection in Modern Medicine]  
[History of Science 273. Freud and the American Academy](#)  
[Linguistics 81. Language and Gender]  
[Linguistics 88. Language and Cognition](#)  
[Linguistics 110. Introduction to Linguistics](#)  
[Linguistics 113. Acoustic and Articulatory Phonetics]  
[Linguistics 115. Introduction to Phonetics and Phonology](#)  
[Linguistics 116. Semantics](#)  
[Linguistics 142. Bilingual Grammar]  
[Literature 110. Furor Poeticus: Madness, Inspiration, Genius]  
[\*Literature 118. Film, Philosophy and Psychoanalysis]  
[Mathematics 153. Mathematical Biology-Evolutionary Dynamics](#)  
[MCB 105. Systems Neuroscience](#)  
[MCB 115. Cellular Basis of Neuronal Function](#)  
[MCB 117. Experimental Neuroscience](#)





**[\*MCB 129. Molecular Genetics of Neural Development and Behavior]**  
[MCB 141. Molecular and Developmental Neurobiology](#)  
[MCB 186. Circadian Biology: From Cellular Oscillators to Sleep Regulation](#)  
[Microbiology 213. Social Issues in Biology](#)  
[Neurobiology 200. Introduction to Neurobiology](#)  
[Neurobiology 204. Neurophysiology of Central Circuits](#)  
[Neurobiology 207. Developmental Neurobiology](#)  
[Neurobiology 209. Neurobiology of Disease](#)  
[\\*Neurobiology 220. Cellular Neurophysiology](#)  
[\\*Neurobiology 221. Molecular Neurobiology](#)  
**[OEB 174r (formerly Biology 174r). Topics in Behavioral Ecology: Learning and Memory]**  
[\\*Pathology 205. Molecular Biology of the Auditory System](#)  
[Philosophy 3. Introduction to the Problems of Philosophy](#)  
**[Philosophy 7. Introduction to Ancient Philosophy ]**  
[Philosophy 8. Introduction to the History of Early Modern Philosophy](#)  
[Philosophy 144. Logic and Philosophy](#)  
**[Philosophy 149z. Philosophy of Science]**  
[Philosophy 156. Philosophy of Mind](#)  
[Psychology 1. Introduction to Psychology](#)  
[Psychology 13. Cognitive Psychology](#)  
[Psychology 15. Social Psychology](#)  
[Psychology 16. Developmental Psychology](#)  
[Psychology 18. Abnormal Psychology](#)  
[\\*Psychology 970. Contemporary Issues in Psychology: Intensive Cross-level Analyses](#)  
[\\*Psychology 971. Contemporary Issues in Psychology: Intensive Cross-level Analyses](#)  
[\\*Psychology 980bb. Aging and Cognition](#)  
[\\*Psychology 980cc. Emotions and Social Interaction](#)  
**[\*Psychology 980dd. The Neuroscience of Faces]**  
[\\*Psychology 980ee. Psychology of Prejudice and Stereotyping](#)  
[\\*Psychology 980ff. Social Judgment](#)  
**[\*Psychology 980gg. The Unintentional Decision Maker]**  
[\\*Psychology 980hh. Cognitive Neuroscience of Human Learning and Memory](#)  
[\\*Psychology 980ii. Thought and Language](#)  
[\\*Psychology 980jj. Confining the Sexually Dangerous: Psychological and Legal Issues](#)  
[\\*Psychology 980kk. Psychopaths and Psychopathy: Psychological and Legal Issues](#)  
[\\*Psychology 980ll. Developmental Psychopathology](#)  
[\\*Psychology 980mm. Demons and Muses: Understanding the Inhabitants of the Creative Mind](#)  
**[\*Psychology 980v. The Insanity Defense]**  
[\\*Psychology 980y. Social Psychological Approaches to Mental Health](#)  
[\\*Psychology 987b. Ear, Brain, and Music](#)  
[\\*Psychology 987c. Multidisciplinary Perspectives on Drug Policy](#)  
[\\*Psychology 987f. The Biology of Conscious States: Waking, Sleeping, and Dreaming](#)  
[\\*Psychology 987g. Theories of Violence](#)  
[\\*Psychology 987h. Addiction, Behavior, and Choice](#)  
[\\*Psychology 987i. The Science of Happiness](#)





**\*Psychology 987k. Neurobiological Approaches to Conscious Experience**

[Psychology 1001. Human Nature]

**\*Psychology 1152r. Animal Cognition: Laboratory**

**Psychology 1304. Cognitive Neuropsychology**

**\*Psychology 1356r. Laboratory in Language Research**

**Psychology 1501. Social Psychology of Organizations**

[\*Psychology 1503. Psychology and Law]

**Psychology 1504. Positive Psychology**

**\*Psychology 1557. Self and Identity: Seminar**

[\*Psychology 1563. Psychological Themes in Text: Seminar]

[\*Psychology 1565. Conscious Will]

**\*Psychology 1571a (formerly \*Psychology 2670a). Decision Making and Perceived Control I: Concentration Seminar**

[\*Psychology 1571b (formerly \*Psychology 2670b). Decision Making and Perceived Control II: Concentration Seminar]

**Psychology 1603. Adolescent Development**

**Psychology 1607 (formerly Psychology 1202 and Psychology 1604). Cognitive Development, Education, and the Brain**

**\*Psychology 1652r. Laboratory in Early Cognitive Development**

**\*Psychology 1655. Conceptual Development: Research Seminar**

[\*Psychology 1658. Infancy: Seminar]

**\*Psychology 1659. Social Development: Seminar**

**Psychology 1671 (formerly Psychology 1606). Language Acquisition: Concentration Seminar**

[Psychology 1701. Personality Psychology]

**Psychology 1703. Human Sexuality**

[\*Psychology 1756. Personality Psychology and Organizations: Seminar]

[Psychology 1801. Anxiety Disorders]

[Psychology 1808. Neurobiological Aspects of Psychopathology]

[\*Psychology 1851. Introduction to Clinical Science]

[\*Psychology 1853. Self-Destructive Behaviors]

**Psychology 1854. Schizophrenia: Seminar**

**\*Psychology 1855. Mood Disorders**

[\*Psychology 1857 (formerly \*Psychology 1803). Eating Disorders: Seminar]

[\*Psychology 1861. Developmental Psychopathology: Seminar]

**Psychology 1900. Introduction to Statistics for the Behavioral Sciences**

**Psychology 1901. Methods of Behavioral Research**

**\*Psychology 1951. Intermediate Quantitative Methods**

**\*Psychology 1952. Multivariate Analysis in Psychology**

**\*Psychology 2040. Contemporary Topics in Psychopathology**

**\*Psychology 2050. History of Psychology: Seminar**

**\*Psychology 2170. Developmental Proseminar**

[\*Psychology 2180. Concepts and Theories: Computational Models]

[\*Psychology 2190. Topics in Language Acquisition]

**\*Psychology 2270. Research in Language Acquisition**

**\*Psychology 2300r. Perception, Cognition, and Representation: Seminar**



[\*Psychology 2320. Applying fMRI to Cognitive Research]  
[\*Psychology 2330r. Cognitive Psychology and Neuroscience: Research Seminar]  
[\\*Psychology 2335r. Language: Research Seminar](#)  
[\*Psychology 2345. Topics in Language Research: Linguistic, Cognitive, and Neural Aspects]  
[\\*Psychology 2355r. Laboratory in Cognitive Neuroscience: Seminar](#)  
[\*Psychology 2358. Memory: Research Seminar]  
[\\*Psychology 2360. Conceptual Development: Research Seminar](#)  
[\*Psychology 2445. Psychotherapy Research]  
[\\*Psychology 2450. Affective and Social Neuroscience](#)  
[Psychology 2461r. Laboratory for Clinical and Developmental Research](#)  
[\*Psychology 2475. Social Psychophysiology: Seminar]  
[\*Psychology 2480. Human Neuropsychology/Neuroanatomy: Seminar]  
[Psychology 2482. Neuropsychological Assessment](#)  
[\\*Psychology 2500. Advanced Social Psychology](#)  
[\\*Psychology 2530r. Mental Control: Research Seminar](#)  
[\\*Psychology 2580r. Affective Forecasting: Research Seminar](#)  
[\\*Psychology 2640r. The Understand Seminar](#)  
[\\*Psychology 2650. Behavioral Approaches to Decision Making and Negotiation](#)  
[\\*Psychology 2660r. Research Seminar in Mindfulness Theory](#)  
[\*Psychology 2701. Advanced Topics in Human Assessment]  
[Quantitative Reasoning 22. Deductive Logic](#)  
[Science B-27. Human Evolution]  
[Science B-29. Evolution of Human Nature](#)  
[Science B-44. Vision and Brain](#)  
[Science B-60. Origins of Knowledge](#)  
[Science B-62. The Human Mind](#)  
[Social Analysis 28. Culture, Illness, and Healing: An Introduction to Medical Anthropology]  
[Social Analysis 34. Knowledge of Language](#)  
[Social Analysis 43. Psychological Trauma](#)  
[Social Analysis 74. Visible Language: Writing Systems, Scripts, and Literacy]  
[Systems Biology 101 \(formerly \\*MCB 195\). A Systems Approach to Biology](#)

## Music

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of Music*



Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment (*Chair*)  
 Carolyn Abbate, Fanny Peabody Professor of Music  
 Julian Anderson, Fanny P. Mason Professor of Music  
 Mauro Calcagno, Associate Professor of Music  
 Chaya Czernowin, Visiting Professor of Music (*University of California, San Diego*) (*fall term only*)  
 Joshua Fineberg, John L. Loeb Associate Professor of the Humanities (*on leave fall term*)  
 Sean Gallagher, Associate Professor of Music  
 Elliott John Gyger, Assistant Professor of Music  
 Christopher Hasty, Walter W. Naumburg Professor of Music  
 Allan Keiler, Visiting Professor of Music (*Brandeis University*)  
 Thomas Forrest Kelly, Morton B. Knafel Professor of Music (*Head Tutor*)  
 Robert D. Levin, Dwight P. Robinson, Jr., Professor of Music  
 Magnus Lindberg, Fromm Foundation Visiting Professor of Music (*spring term only*)  
 Jameson N. Marvin, Senior Lecturer on Music  
 Carol J. Oja, William Powell Mason Professor of Music  
 Karen Painter, Associate Professor of Music (*on leave 2005-06*)  
 Matthew G. Peattie, Lecturer on Music  
 Thomas A. Peattie, Visiting Assistant Professor of Music (*Boston University*)  
 Alexander Rehding, Gardner Cowles Associate Professor of Music (*on leave 2005-06*)  
 Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies  
 Anne C. Shreffler, James Edward Ditson Professor of Music  
 Daniel Stepner, Preceptor in Music  
 Howard G. Stern, Lecturer on Music  
 John Stewart, Senior Preceptor in Music  
 Hans Tutschku, Associate Professor of Music  
 Christopher J. Washburne, Visiting Assistant Professor of Music (*Columbia University*) (*fall term only*)  
 Richard K. Wolf, Harris K. Weston Associate Professor of the Humanities  
 Christoph Wolff, Adams University Professor  
 James D. Yannatos, Senior Lecturer on Music

### ***Other Faculty Offering Instruction in the Department of Music***

Daniel Albright, Ernest Bernbaum Professor of Literature (*on leave fall term*)  
 Hugo van der Velden, Professor of History of Art and Architecture

Undergraduates considering a concentration in Music should meet with the Head Tutor to discuss the program. Prospective concentrators in Music are encouraged to take Music 51 in their freshman year; Music 51 is a prerequisite of Music A. Music A is required of concentrators, and should be taken as early as possible. Students who know they are going to concentrate in Music and do not have piano background should consult with the instructor of Music A immediately upon arrival at Harvard. In order to obtain concentration credit for a course for which such credit is not normally given, students must petition the Department at the beginning of the term. For



students not intending to concentrate in Music, the department ordinarily offers Music 1 and Music 2 every year. Other courses may be taken with permission of the instructor. See also listings in African and African American Studies, Core Curriculum, Folklore and Mythology, General Education, and Medieval Studies.

### ***Primarily for Undergraduates***

#### **\*Music Ar. Musicianship**

Catalog Number: 4859

*John Stewart*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Consists of two parts: (1) Basic piano skills involving sight reading, score reading, figured bass realization, harmonization of melodies. Individual or small-group instruction; and (2) Earlab (sight singing, rhythmic studies, melodic/harmonic dictation, and other exercises). Two class meetings per week. In addition, individual instruction in piano playing is given to those not proficient at the keyboard.

*Note:* Limited to concentrators; the Earlab is open to students concurrently taking another course in the Music Concentration Program. Music concentrators are required to enroll in two terms of Music A, starting in the fall term. A special examination is required of Music concentrators to meet the Musicianship requirement. While credit is awarded for suitable progress in the course, concentrators may find it necessary to repeat (audit) all or portions of Music A in order to prepare for this exam (see Concentrator's Handbook).

*Prerequisite:* Music 51.

#### **Music 1a. Introduction to Music I**

Catalog Number: 8071

*Sean Gallagher*

*Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6*

Explores about one thousand years of music history (ca. 800-1800), from the medieval through the Classical period. Particular emphasis is given to the liturgical and stylistic context of Gregorian chant and early polyphony; text-music relationships in Renaissance and early baroque compositions; and the works of J. S. Bach, Handel, Haydn, and Mozart.

*Note:* Music 1a can be taken independently of Music 1b. No prior knowledge of music is presumed.

#### **Music 1b. Introduction to Music II**

Catalog Number: 4952

*Sean Gallagher*

*Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6*

Music 1b continues the survey started in Music 1a, beginning with the transition from the Classical to the Romantic period. Explores the history of music in its stylistic and cultural contexts, including aspects of form, composition, social significance, and politics. Composers studied include Beethoven, Schubert, Robert and Clara Schumann, Liszt, Berlioz, Mahler, Wagner, Bizet, Verdi, Schoenberg, Berg, Stravinsky, Debussy, and later twentieth-century figures.



*Note:* Music 1b can be taken independently of Music 1a. No prior knowledge of music presumed.

### **Music 2. Foundations of Tonal Music I**

Catalog Number: 0645 Enrollment: Limited to 60.

*Joshua Fineberg*

*Half course (spring term). M., W., F., at 3. EXAM GROUP: 8*

Seeks to develop a greater understanding of musical language, the conceptual foundations of musical literature, and of how critical listening and analysis can be performed. We will make use of traditional prose analysis in the form of written essays as well as musically specific writing and analytical techniques. While reading knowledge of simple musical notation is helpful, there will be at least one section for students with no previous experience.

*Note:* Open to all students. May not be counted for concentration. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

### **Music 4. Introduction to Composition**

Catalog Number: 2239 Enrollment: Limited to 16.

*Elliott John Gyger*

*Half course (fall term). M., 2–4; F., at 2. EXAM GROUP: 7, 8*

Open to students with little or no prior experience in composition. Explores ways of thinking about and organizing basic compositional elements such as melody, harmony, rhythm and instrumental color, as well as developing skills of score preparation and analytical listening. The primary focus of the course is a series of short compositional exercises, culminating in a somewhat longer final project. Workshop performances of students' music take place throughout the term.

*Note:* May not be counted for concentration credit.

*Prerequisite:* Music 2 or equivalent or permission of the instructor.

### **\*Music 51. Theory I**

Catalog Number: 3649

*John Stewart*

*Full course. Tu., Th., at 1, and additional hours to be arranged. EXAM GROUP: 15*

Elementary counterpoint and harmony; small forms and chorale harmonization. Concentration on written exercises, ear training, and keyboard.

*Note:* Music 51 or its equivalent is required of all concentrators. Students planning to concentrate in Music are encouraged to take the course in their freshman year. Concentrators should plan to meet this requirement by no later than the end of the sophomore year.

*Prerequisite:* Basic theory and ear training skills. Basic keyboard and sight reading of a Bach Chorale required.

### **\*Music 91r. Supervised Reading and Research**

Catalog Number: 1298

*Thomas Forrest Kelly and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Open to students wishing to pursue supervised study in an area not covered by the courses currently offered. Students must submit a study proposal to the faculty member with whom they



wish to study and a signed proposal to the Assistant to the Head Tutor. May be counted for concentration *only* with the prior approval of the Department.

### **\*Music 92r. Senior Project**

Catalog Number: 2744

*Thomas Forrest Kelly and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

For students doing a Senior Project, when a pertinent regularly listed course does not exist, or is not being offered during the student's senior year.

*Note:* Students should read carefully and well in advance the relevant material in *Handbook for Students*, under the section of "Fields of Concentration: Music." Students should note, in particular #3 in the section marked 'Basic requirements': "a brief written prospectus . . . must be approved and signed by the instructor, and submitted to the Head Tutor no later than the second week of the term." The prospectus must clarify, when appropriate, why no regularly listed course being offered during the student's senior year is pertinent to the proposed work.

### **\*Music 93r. Supervised Reading and Research**

Catalog Number: 8849

*James D. Yannatos*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Open to students wishing to pursue supervised study in chamber music. Students must submit a study proposal to Professor Yannatos and a signed proposal to the Head Tutor.

*Note:* May not be taken Pass/Fail. May not be counted for concentration.

### **\*Music 97r. Tutorial—Sophomore Year: Music History and Repertory**

Catalog Number: 0113

*Matthew G. Peattie*

*Full course (indivisible). Fall: M., W., F., at 10, and an additional meeting to be arranged.*

*Spring: Hours to be arranged. EXAM GROUP: Fall: 3*

For concentrators only. An intensive survey of Western music throughout its history and of selected non-Western musical traditions, providing methods of further study of music in historical and cultural contexts as well as basic knowledge of repertory.

*Note:* Music 97r is required of all concentrators and should be taken in the sophomore year or earlier by permission. Each half of the course culminates in an examination testing students' knowledge of a large listening repertory. These examinations must be passed in order to receive credit for the course.

*Prerequisite:* Music 51 (may be taken concurrently).

### **\*Music 98r. Tutorial — Junior Year**

Catalog Number: 5601

*Thomas Forrest Kelly and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Open to junior candidates for honors in Music who have written permission to enroll from the instructor with whom they wish to work, and also from the Head Tutor in Music. With permission, may be taken for a second term.



**\*Music 99r. Tutorial — Senior Year**

Catalog Number: 1765

*Thomas Forrest Kelly and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Open to senior candidates for honors in Music who have written permission to enroll from the instructor with whom they wish to work, and also from the Head Tutor in Music. May be counted toward concentration credit only by honors candidates.

***For Undergraduates and Graduates***

**Music 121a. Choral Conducting**

Catalog Number: 1550

*Jameson N. Marvin*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Students will conduct the class/choir to gain experience in building and refining their conducting technique. Through repertoire from the 16th - 20th century, students will develop clear, precise and expressive conducting gestures.

*Note:* May not be counted for concentration credit.

*Prerequisite:* Choral or ensemble experience; ear training, keyboard, and theory background helpful.

**[Music 121b. Advanced Choral Conducting]**

Catalog Number: 1675

*Jameson N. Marvin*

*Half course (spring term). Hours to be arranged.*

Score Analysis and Interpretation: learning to understand the symbolic notation of musical gesture. Development of the mental-aural image of the score: preparing the conductor's ear for rehearsal. Rehearsing: how to hear, how to listen, how to fix. Further development of conducting technique: clarity, precision, and informed expressivity revealing musical gesture.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Music 121a, Music 51, or conducting and musicianship background.

**\*Music 125a. Beginning Orchestration and Conducting**

Catalog Number: 8397

*James D. Yannatos*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Studies in basic conducting skills related to exercises in 17th- and 18th-century orchestration. Demonstration of stringed instruments.

*Note:* May not be counted for concentration credit.

*Prerequisite:* Music 51 or permission of instructor.

**[\*Music 125b. Advanced Orchestration and Conducting]**

Catalog Number: 8304

*James D. Yannatos*

*Half course (spring term). Hours to be arranged.*

Advanced conducting skills related to studies in tonal, polytonal, atonal, 12-tone and avant-garde





orchestration. Demonstration of wind, brass, and percussion instruments.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Music 154 or permission of instructor.

### **Music 126b. Advanced Conducting**

Catalog Number: 4868

*James D. Yannatos*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Workshop for aspiring conductors with some experience. The technical aspects of conducting and rehearsing in relation to an understanding of the score will be studied with practical classroom exercises using piano and various instrumental groups.

*Prerequisite:* Music 125a, Music 154, and/or permission of the instructor.

### **Music 154. Theory II**

Catalog Number: 4771

*Howard G. Stern*

*Full course. Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Continues the work of Music 51 with emphasis on Classical style (Mozart, Haydn, Beethoven). Concepts are developed through composition, keyboard and analytical exercises. Topics include harmony, phrase structure, form, sonata procedures. Spring term also explores chromatic harmony in 18th- and 19th-century music.

*Note:* Required of all concentrators. May not be counted for credit toward an advanced degree.

*Prerequisite:* Music 51 or equivalent.

### **Music 155. Modal Counterpoint**

Catalog Number: 7710

*Howard G. Stern*

*Half course (fall term). Tu., Th., 3–4:30. EXAM GROUP: 17, 18*

Study of representative styles and genres of 16th-century polyphony. Detailed analytic work will be combined with compositional exercises.

*Prerequisite:* Music 154 or permission of instructor.

### **Music 156. Tonal Counterpoint**

Catalog Number: 3930

*Howard G. Stern*

*Half course (spring term). Tu., Th., 3–4:30. EXAM GROUP: 17, 18*

Written work in the Bach style.

*Prerequisite:* Music 154 or equivalent.

### **Music 157x. Tonal Analysis**

Catalog Number: 6830

*Christopher Hasty*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Detailed examination of representative tonal compositions.

*Note:* For undergraduates who have completed Music 154 or equivalent, and strongly



recommended for incoming graduate students in composition and musicology.

*Prerequisite:* Music 154 or permission of instructor.

**Music 157y. Analysis of 20th-Century Music**

Catalog Number: 4397

*Elliott John Gyger*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Intensive survey of compositional styles and techniques of the last 100 years. Traditional pitch-centered analysis, including set theory, as well as approaches focusing on rhythm, timbre, gesture, and other elements.

*Prerequisite:* Music 154 or permission of instructor.

**\*Music 160r. Composition: Proseminar**

Catalog Number: 8026

*Chaya Czernowin (University of California, San Diego)*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Open to students prepared for individual work in composition. Focus on the string quartet, including contemporary repertoire survey, short exercises, and a final project of modest dimensions. Incorporates readings and final performance of students' work.

*Prerequisite:* Music 154 or permission of instructor.

**\*Music 161r. Advanced Composition**

Catalog Number: 6714

*Julian Anderson*

*Half course (spring term). Hours to be arranged.*

Individual work in musical composition. Consists of a mixture of one-on-one and group meetings.

**[\*Music 167br. Electro-Acoustic Composition ]**

Catalog Number: 9187 Enrollment: Limited to 12.

*Hans Tutschku*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* One course in music theory/composition or by permission of instructor

**\*Music 167r. Electro-Acoustic Composition**

Catalog Number: 3806 Enrollment: Limited to 12.

*Hans Tutschku*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

Composition/performance involving analog and digital electronic medium. Projects realized using recording gear and computers; study of relevant aspects of acoustic and electronic theory; compositions since 1948 of musique concrete, acousmatic and live-electronic music; synthesis, sampling, digital recording, and live performance techniques.

*Prerequisite:* One course in theory/composition or by permission of instructor.



**\*Music 180r. Performance and Analysis: Seminar**

Catalog Number: 2294 Enrollment: By audition only, prior to the first meeting.

*Robert D. Levin and Daniel Stepner*

*Half course (fall term; repeated spring term). M., 7–10 pm and an additional meeting to be arranged. EXAM GROUP: 9*

Representative chamber music of the past and present is prepared for performance in class sessions and private coachings. Intensive class analysis as the basis of musical expression and interpretation.

*Note:* Open to singers and instrumentalists.

**[\*Music 182. 17th- and 18th-Century Performance Practice ]**

Catalog Number: 1460

*Robert D. Levin*

*Half course (fall term). Hours to be arranged.*

Articulation, ornamentation, improvisation, and other stylistic domains are considered from the perspectives of historical evidence and modern performance.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Music 154 or permission of instructor.

**Music 190r. Topics in World Music: Proseminar**

Catalog Number: 1312

*Richard K. Wolf*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

*Music in Islamic Contexts: South and West Asia.* Explores what it means for musical cultures to share Islam as a common context by examining South and West Asian musical cultures and issues pertaining to the Muslim world as a whole.

*Note:* For music concentrators or by permission of instructor.

**\*Music 190rs. Topics in World Music: Proseminar**

Catalog Number: 7577

*Richard K. Wolf*

*Half course (spring term). Hours to be arranged.*

*South Indian Classical Music.* Introduction to classical music of South India (Karnatak music).

The course's two goals are to develop or enrich students' critical skills for listening to the unique modal and rhythmic complexities of Karnatak music; and to develop tools to reflect critically on the relationship among various forms of theory and practice, what people do and what they say they do, in the Karnatak music world.

*Note:* Intended primarily for undergraduates.

**Music 191r. Topics in Medieval and Renaissance Music: Proseminar**

Catalog Number: 2524

*Mauro Calcagno*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

*The Italian Madrigal.* An investigation of the secular genre that best embodied the aristocratic ideals of the Renaissance, and made Italy the leader of the European musical scene.

Consideration of the artistic, social, and political contexts in which the madrigal developed in



cities such as Florence, Rome, Venice, Mantua, Ferrara, and Naples. Focus on composers such as Arcadelt, Willaert, Marenzio, Rore, Gesualdo, and Monteverdi, and their musical "readings" of poems by Petrarch, Tasso, Ariosto, and others.

*Note:* For music concentrators or by permission of instructor.

### **Music 191rs. Topics in Medieval and Renaissance Music: Proseminar**

Catalog Number: 2871

Thomas Forrest Kelly

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

*Medieval and Renaissance Instrumental Music.* Vocal music is at the center of most studies of medieval and Renaissance music, but these periods include important repertoires of instrumental music: dances, accompaniments, solo music for lute, keyboard, vihuela, and ensemble. We will study the instruments, the contexts, and the repertoires—written and unwritten—of instrumental music from the eleventh to the sixteenth century. Students will learn to transcribe lute tablature, dance a basse danse, and improvise on an Italian tenor.

### **[Music 192r. Topics in Music from 1600-1800: Proseminar]**

Catalog Number: 2944

Karen Painter

*Half course (fall term). Hours to be arranged.*

*Schubert, "double exposure," and aesthetic paradigms of the nineteenth century in music and literature.* Writings on 19th-century German culture and aesthetics, especially Downing's literary theory of repetition, will provide context for Schubert's compositional strategies and aesthetic thinking. Readings will illuminate the ideology and philosophy of repetition as technique and experience (the reconception of time inspired by the French Revolution). The analysis and interpretation of strophic songs, Symphonies 8 and 9, selected piano sonatas and chamber music, will focus on formal treatment in relation to contemporary practices and theories.

*Note:* Expected to be given in 2006–07. For music concentrators or by permission of instructor.

### **\*Music 193r. Topics in Music from 1800 to the Present: Proseminar**

Catalog Number: 3741 Enrollment: Limited to 12.

Carolyn Abbate

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

*Music and Film.* This seminar deals with the history of film music: the role music played both in the on-set filming and exhibition of silent films; the early sound era; and the classical praxis that evolved in Hollywood in the 1940s and 50s. Topics to be covered include the paradox of silent-film operas and composer biographies; "classical" music and techniques in film scores; the Wagnerian model for musical symbolism; and film sound theory.

*Note:* For music concentrators or by permission of instructor. There will be a weekly evening screening of films covered in the seminar.

### **Music 193rt. Mahler and Symphonic Space**

Catalog Number: 8222

Thomas A. Peattie (Boston University)

*Half course (spring term). F., 2–4. EXAM GROUP: 7, 8*



**Music 194r. Special Topics: Proseminar**

Catalog Number: 2846

*Christopher J. Washburne (Columbia University)*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

*Music of Caribbean New York.* This seminar focuses on Spanish Caribbean music traditions associated with New York City. Styles such as mambo, salsa, Latin jazz, and hip hop will be explored historically. Theoretical issues of place, globalization, interculturality, immigration, ethnic identity, and race will be addressed.

*Note:* For music concentrators or by permission of instructor.

**Music 194rs. Topics in Music from 1800 to Present: Proseminar**

Catalog Number: 8586

*Carol J. Oja and Kay Kaufman Shelemay*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

*Before West Side Story: Leonard Bernstein's Boston.* This seminar will explore the childhood and early career of one of the 20th century's most renowned musicians and composers. Working in teams, students will fuse ethnography and archival research to explore the interlinking communities and institutions (Mishkan Tefila synagogue, Boston Latin High School, Harvard class of '39, the BSO) that shaped Bernstein's formative years and prepare an exhibit for Harvard's upcoming Bernstein festival.

*Note:* For music concentrators or by permission of instructor.

**[Music 194rt. Special Topics: Proseminar]**

Catalog Number: 8523

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*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

**Literature and Arts B-51. First Nights: Five Performance Premieres**

**Literature and Arts B-52. Mozart**

**Literature and Arts B-63. Bach in His Time and Through the Centuries**

**Literature and Arts B-68. Opera**

**Literature and Arts B-78. Soundscapes: Exploring Music in a Changing World**

**[Literature and Arts B-80. The Swing Era]**

**[Literature and Arts B-82. Sayin' Something: Jazz as Sound, Sensibility, and Social Dialogue]**

***Primarily for Graduates***

**Music Bhf. Exercises in Tonal Writing and Analysis**

Catalog Number: 3045

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*Half course (throughout the year). Hours to be arranged.*

Includes theory (level of Music 154) as well as keyboard and ear training.



*Note:* Required of all graduate students. This requirement must be met before admission to the General Examination.

**Music 201a. Current Methods in Historical Musicology**

Catalog Number: 4975

*Anne C. Shreffler*

*Half course (fall term). Tu., 10–12. EXAM GROUP: 12, 13*

An introduction to scholarship, drawing upon the history, theoretical frameworks, and working methods of historical musicology. One focus of the course will be the concept of musical borrowing, broadly construed, from the medieval period through the 20th century.

*Note:* May be taken independently by students from other departments with permission of instructor.

**Music 201b. Current Methods in Ethnomusicology**

Catalog Number: 3995

*Richard K. Wolf*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Focuses on the introduction to scholarly study of music with emphasis on the history and methodologies of ethnomusicology. Theories of music in culture, field methods, analytical and notational strategies, and critical tools for scholarship.

*Note:* May be taken independently by students from other departments with permission of instructor.

**[Music 206r. Research Methods in Ethnomusicology: Musical Ethnography]**

Catalog Number: 6891

*Kay Kaufman Shelemay*

*Half course (fall term). Hours to be arranged.*

An introduction to the theories and methods of ethnomusicological fieldwork, including changing conceptions of the research site, ethical concerns, interview techniques, the ethnography of musical performance, and data analysis and interpretation.

*Note:* Expected to be given in 2006–07. Individual research project required. Open to undergraduates with permission of instructor.

**Music 207r. Ethnomusicology: Seminar**

Catalog Number: 2149

*Richard K. Wolf*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

*Theory and Structure of South Indian Classical Music.* Students analyze rhythmic and melodic structures of musical genres, examine local explanatory tools and assess alternate theories of Karnatak Music. Students may supplement their analysis by learning to sing or play the vina.

*Note:* Open to undergraduates with permission of instructor.

**[Music 207rs. Ethnomusicology: Seminar]**

Catalog Number: 8999

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*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.

**Music 208r. Ethnomusicology: Seminar**

Catalog Number: 2232

*Kay Kaufman Shelemay*

*Half course (fall term). M., 1:30–3:30. EXAM GROUP: 6, 7, 8*

*Musical Communities.* A cross-cultural and comparative approach to the social and musical process that give rise to musical communities. Research project required.

*Note:* Open to undergraduates with permission of instructor.

**Music 209r. Ethnomusicology: Seminar**

Catalog Number: 4022

*Ingrid Monson*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

*Improvisation in Three Traditions.* Improvisation compared in three musical traditions: Senufo balafon in Mali, Afro-Cuban music, and Jazz. Emphasis on developing a musical understanding of these traditions and their cultural similarities and differences. A secondary theme will be assessing the implications of these genres for thinking through the concept of an African diaspora.

*Note:* Open to undergraduates with permission of instructor.

**Music 212r. Chant: Seminar**

Catalog Number: 4984

*Thomas Forrest Kelly*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

*Gregorian chant: manuscripts and transmission.* Introduction to liturgy and chant; a study of manuscripts sources, with special emphasis on fragments in the Houghton Library; a study of aspects of transmissions as witnessed by multiple sources from a single place.

*Note:* Open to undergraduates with permission of instructor.

**[Music 213r. Topics in Medieval Polyphony: Seminar]**

Catalog Number: 5802

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*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. Permission of instructor required for undergraduates.

**Music 214r. Renaissance Music: Seminar**

Catalog Number: 7825

*Sean Gallagher and Hugo van der Velden*

*Half course (spring term). Th., 1–4. EXAM GROUP: 15, 16, 17*

*Northern European Music and Visual Arts in the Fifteenth Century.* Focuses on Netherlandish and French painting and music, with special consideration of points of contact between these arts in terms of aesthetic priorities, devotional practices, patronage, and their functions within civic and courtly cultures.

*Note:* Open to undergraduates with permission of instructor.





**Music 214rs. Renaissance Music: Seminar**

Catalog Number: 6294

*Mauro Calcagno*

*Half course (spring term). F., 1:30–3:30. EXAM GROUP: 6, 7, 8*

*Luca Marenzio's secular music.* An examination of Marenzio's madrigals and canzonettas; issues of text/music, style, biography, with emphasis on the intellectual, political and artistic contexts in which the musician worked, especially in Rome.

*Note:* Open to graduate students only. Students will be expected to focus on problems facing the new historical-critical edition of Marenzio's secular music

**[Music 215r. Baroque: Seminar]**

Catalog Number: 6817

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*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.

**Music 216r. 18th-Century Music: Seminar**

Catalog Number: 6868

*Christoph Wolff*

*Half course (fall term). M., 10–12. EXAM GROUP: 3, 4*

*Music of the Bach Family.* Historical, contextual, and analytical studies of selected repertoires representing different generations of the Bach family of musicians, with emphasis on Johann Christoph (1742-1803), Johann Ludwig, Johann Sebastian, and Carl Philipp Emanuel Bach.

*Note:* Open to undergraduates with permission of instructor.

**Music 217r. 19th-Century Music: Seminar**

Catalog Number: 9814

*Karen Painter and Daniel Albright*

*Half course (spring term). W., 10–12. EXAM GROUP: 3, 4*

*Music's Body: Sensuality in Literature and Sound.* Music as intuition, transport, ecstasy; the philosophy of anti-rationalism, decadence. Music as incarnation of the desiring, kinetic self. Sensuality as cultural paradigm: Orientalism, anti-semitism. Topics ranging from the Kreutzer Sonata to *Salome*.

*Note:* Open to undergraduates and students outside the department by permission of instructor.

**[Music 218r. 20th-Century Music: Seminar]**

Catalog Number: 0774

*Karen Painter*

*Half course (fall term). Hours to be arranged.*

*Bruckner, Mahler, and Myths of Racial Identity.* This seminar will examine documents on anti-Semitism, "'Germanness'" and Zionism from 1880 to 1945 ("scientific" research, cultural criticism, political writings) and explore representations of nationality and race in works by Bruckner and Mahler.

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.



**[Music 218rs. 20th-Century Music: Seminar]**

Catalog Number: 0301

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*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

**Music 219r. 19th- and 20th-Century Music**

Catalog Number: 2275

*Anne C. Shreffler*

*Half course (fall term). Th., 10–12. EXAM GROUP: 12, 13*

*Performance Practice and the 2nd Viennese School.* The seminar will investigate how Schoenberg, Berg, Webern and other members of the Second Viennese School sought to solve the problems of performance of their music, most notably in the Society for Private Musical Performances. We will also look at texts on performance by Rudolf Kolisch (using his papers in Houghton Library) and T.W. Adorno.

*Note:* Open to undergraduates with permission of instructor.

**Music 219rs. 19th- and 20th-Century Music**

Catalog Number: 1518

*Carol J. Oja*

*Half course (spring term). F., 10–12. EXAM GROUP: 3, 4*

*Writing about American Music: Historiography and Authorial Voice.* Historiographic analysis in a writing-intensive environment. Discussion of core scholarship in American music, focusing on changing perceptions of its history and on the widely varying critical postures of its key authors.

**[Music 220ar. History of Music Theory: Seminar]**

Catalog Number: 2119

*Alexander Rehding*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Topic to be announced.

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.

**Music 220br. Topics in the History of Music Theory: 1700–1900**

Catalog Number: 1580 Enrollment: Limited to 20.

*Allan Keiler (Brandeis University)*

*Half course (spring term). W., 10–12. EXAM GROUP: 3, 4*

Topic to be announced.

*Note:* Open to undergraduates with permission of instructor.

**[Music 222r. Schenkerian Analysis I]**

Catalog Number: 4055

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*Half course (fall term). Hours to be arranged.*

Introduction to the theories and graphing techniques of Heinrich Schenker and his followers through the analysis of selected works.

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.



**[Music 224r. Music Analysis]**

Catalog Number: 7136

*Alexander Rehding*

*Half course (spring term). Hours to be arranged.*

Topic to be announced.

*Note:* Expected to be given in 2006–07.

**Music 230ar. Topics in Music Theory I**

Catalog Number: 5712

*Christopher Hasty*

*Half course (fall term). W., 10–12. EXAM GROUP: 3, 4*

*Music and Cognition.* An examination and critique of recent cognitivist accounts of music with the aim of developing alternative conceptions of musical knowledge and experience.

*Note:* Open to undergraduates with permission of instructor.

**Music 230br. Topics in Music Theory II**

Catalog Number: 6696

*Christopher Hasty*

*Half course (spring term). Th., 10–12. EXAM GROUP: 12, 13*

*Studies in Musical Analysis.* Detailed analysis of music from various periods and cultures. The aim of the seminar will be to develop ways of writing about music that can effectively communicate and evaluate potentials for actual music experience.

*Note:* Open to undergraduates with permission of instructor.

**\*Music 261r. Composition: Seminar**

Catalog Number: 3326 Enrollment: Limited to 10.

*Chaya Czernowin (University of California, San Diego) (fall term) and Magnus Lindberg (spring term)*

*Full course (indivisible). Hours to be arranged.*

For students prepared for work in original composition.

**\*Music 262r. Composition: Seminar**

Catalog Number: 4457

*Julian Anderson*

*Full course (indivisible). Hours to be arranged.*

For students prepared for work in original composition.

**Music 264r. Electronic Music Composition: Seminar**

Catalog Number: 1939

*Hans Tutschku*

*Full course (indivisible). Fall: W., 1–3; Spring: Tu., 2–4. EXAM GROUP: Fall: 6, 7; Spring: 16, 17*

Intensive work in computer music concentrating on traditional and recent electronic techniques.

*Prerequisite:* Previous knowledge of electronic music techniques, or permission of instructor.



**Music 265r. Orchestration**

Catalog Number: 2379 Enrollment: Limited to 8.

*Joshua Fineberg*

*Half course (spring term). Tu., 10–1. EXAM GROUP: 12, 13, 14*

Focuses on composing for orchestral instruments in large ensembles and orchestras. It alternates classroom meetings and practical sessions with instrumentalists.

*Note:* Open to composition graduate students, or by permission of instructor.

**[Music 270r. Special Topics]**

Catalog Number: 3727

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*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

**Music 271r. Fromm Seminar in Composition**

Catalog Number: 1311

*Magnus Lindberg*

*Half course (spring term). Hours to be arranged.*

**Music 272r. Special Topics**

Catalog Number: 2059 Enrollment: Limited to 8.

*Elliott John Gyger*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

*Contemporary Choral Writing.* Introduction to a cappella writing. Vocal production; range/register/tessitura; pitching/tuning; phonetics; speech; text setting; multiple texts/languages. Repertoire survey. Compositional exercises for readings by professional vocal octet.

**[Music 273r. Topics in Electroacoustic Music]**

Catalog Number: 7701

*Hans Tutschku*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

***Graduate Courses of Reading and Research***

**\*Music 300. Reading and Research for Advanced Students**

Catalog Number: 2504

*Carolyn Abbate 5304, Julian Anderson 5148, Mauro Calcagno 3871, Joshua Fineberg 3749 (on leave fall term), Sean Gallagher 4415, Elliott John Gyger 4462, Christopher Hasty 4445, Thomas Forrest Kelly 1324, Robert D. Levin 3482, Ingrid Monson 1591, Carol J. Oja 4599, Karen Painter 3615 (on leave 2005-06), Alexander Rehding 4651 (on leave 2005-06), Kay Kaufman Shelemay 3483, Anne C. Shreffler 4656, Hans Tutschku 5147, Richard K. Wolf 1386, and Christoph Wolff 4532*

Individual work on specific topics not included in the announced course offerings.



**\*Music 301. Reading and Research**

Catalog Number: 6543

*Carolyn Abbate 5304, Julian Anderson 5148, Mauro Calcagno 3871, Joshua Fineberg 3749 (on leave fall term), Sean Gallagher 4415, Elliott John Gyger 4462, Christopher Hasty 4445, Thomas Forrest Kelly 1324, Ingrid Monson 1591, Carol J. Oja 4599, Karen Painter 3615 (on leave 2005-06), Alexander Rehding 4651 (on leave 2005-06), Kay Kaufman Shelemay 3483, Anne C. Shreffler 4656, Hans Tutschku 5147, Richard K. Wolf 1386, and Christoph Wolff 4532*

Individual work in preparation for the General Examination for the PhD degree.

*Note:* May not be counted toward course requirements for the PhD degree.

**\*Music 309. Doctoral Colloquium**

Catalog Number: 2260

*Carolyn Abbate 5304*

*Half course (spring term). Hours to be arranged.*

**\*Music 310. Direction of Doctoral Dissertations**

Catalog Number: 1819

*Carolyn Abbate 5304, Julian Anderson 5148, Christopher Hasty 4445, Thomas Forrest Kelly 1324, Robert D. Levin 3482, Ingrid Monson 1591, Carol J. Oja 4599, Kay Kaufman Shelemay 3483, Anne C. Shreffler 4656, and Christoph Wolff 4532*

*Note:* May not be counted toward course requirements for the PhD degree.

## Near Eastern Languages and Civilizations

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Near Eastern Languages and Civilizations***

P. Oktor Skjaervo, Aga Khan Professor of Iranian (*Chair*) (*Director of Graduate Studies, fall term*)

Irit Aharony, Preceptor in Modern Hebrew

M. Shahab Ahmed, Assistant Professor of Islamic Studies

Engin D. Akarli, Visiting Professor of Near Eastern Languages and Civilizations (*Brown University*) (*spring term only*)

Khaled Al-Masri, Preceptor in Arabic

James A. Armstrong, Lecturer on the Ancient Near East

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Mostafa Atamnia, Preceptor in Modern Arabic on the Ali Abdul Rahman Alturki Endowment

Beatrice Caplan, Preceptor in Yiddish



J. F. Coakley, Senior Lecturer on Near Eastern Languages and Civilizations  
 Shaye J.D. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy  
 Michael D. Coogan, Visiting Lecturer on Near Eastern Languages and Civilizations  
 Carl Sharif El-Tobgui, Preceptor in Arabic  
 John L. Ellison, Lecturer on Near Eastern Languages and Civilizations  
 William A. Graham, Jr., Murray A. Albertson Professor of Middle Eastern Studies (*FAS*) and  
 John Lord O'Brian Professor of Divinity (*Divinity School*)  
 William E. Granara, Professor of the Practice of Arabic on the Gordon Gray Endowment  
 (*Director of Undergraduate Studies*)  
 Anna Grinfeld, Preceptor in Modern Hebrew  
 Jo Ann Hackett, Professor of the Practice of Biblical Hebrew and Northwest Semitic Epigraphy  
 Paul D. Hanson, Florence Corliss Lamont Professor of Divinity (*Divinity School*)  
 Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*Director of Graduate  
 Studies, spring term*) (*on leave fall term*)  
 Abd-el-Hameed Hawwas, Shawwaf Visiting Lecturer  
 Wolfhart P. Heinrichs, James Richard Jewett Professor of Arabic (*on leave spring term*)  
 John Huehnergard, Professor of Semitic Philology (*on leave 2005-06*)  
 Gershon David Hundert, Gerard Weinstock Visiting Professor of Jewish History (*McGill  
 University*) (*fall term only*)  
 Susan M. Kahn, Lecturer on Near Eastern Languages and Civilizations  
 Hakan T. Karateke, Preceptor in Modern Turkish Language  
 Miri Kubovy, Professor of the Practice of Near Eastern Languages and Civilizations  
 Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*)  
 Peter Machinist, Hancock Professor of Hebrew and Other Oriental Languages  
 Avi Matalon, Assistant Professor of Near Eastern Languages and Civilizations  
 Susan G. Miller, Senior Lecturer on Near Eastern Languages and Civilizations  
 Michael B. Oren, Nachshon Visiting Lecturer on Jewish Studies (*spring term only*)  
 James R. Russell, Mashtots Professor of Armenian Studies  
 Richard J. Saley, Lecturer on Near Eastern Languages and Civilizations  
 John S. Schoeberlein, Lecturer on Near Eastern Languages and Civilizations (*fall term*) and  
 Lecturer on Government (*spring term*)  
 Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization (*on  
 leave spring term*)  
 Andrea Seri, Lecturer on Assyriology  
 Benjamin L. Smith, Preceptor in Modern Arabic  
 Lawrence E. Stager, Dorot Professor of the Archaeology of Israel (*on leave spring term*)  
 Piotr Steinkeller, Professor of Assyriology  
 Wheeler M. Thackston, Jr., Professor of the Practice of Persian and Other Near Eastern  
 Languages  
 Ruth R. Wisse, Harvard College Professor, Martin Peretz Professor of Yiddish Literature, and  
 Professor of Comparative Literature

***Other Faculty Offering Instruction in the Department of Near Eastern Languages and  
 Civilizations***



Ofer Bar-Yosef, George Grant MacCurdy and Janet G. B. MacCurdy Professor of Prehistoric Archaeology  
Roy Mottahedeh, Gurney Professor of History

Knowledge of a Near Eastern language is not required in courses designated as Near Eastern Civilizations, Ancient Near East, Jewish Studies, Early Iranian Civilizations, Islamic Civilizations, and Armenian Studies, unless otherwise stated.

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

## ***Near Eastern Civilizations***

### ***Primarily for Undergraduates***

Near Eastern Civilizations 90. Junior Seminars. These half courses are limited in enrollment with preference given to Near Eastern Languages and Civilizations concentrators in their junior years. Undergraduate non-concentrators may enroll in junior seminars on a space available basis.

#### **\*Near Eastern Civilizations 91r. Supervised Reading and Research**

Catalog Number: 1132

*William E. Granara and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial supervision of research in subjects not treated in regular courses.

#### **\*Near Eastern Civilizations 97r. Group Tutorial—Sophomore Year**

Catalog Number: 0167

*William E. Granara and members of the Department*

*Half course (spring term). M., 4–5:45. EXAM GROUP: 9*

An introduction to the cultures and literatures of the Near East in ancient, classical, and modern times, emphasizing major themes and problems that cut across individual cultures and historical periods.

#### **\*Near Eastern Civilizations 98r. Tutorial — Junior Year**

Catalog Number: 2612

*William E. Granara and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Designed for juniors concentrating in Near Eastern Languages and Civilizations.

#### **\*Near Eastern Civilizations 99r. Tutorial — Senior Year**

Catalog Number: 6623

*William E. Granara and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Designed for seniors concentrating in Near Eastern Languages and Civilizations.

### ***Cross-listed courses***





**[Social Analysis 74. Visible Language: Writing Systems, Scripts, and Literacy]**

***For Undergraduates and Graduates***

**Near Eastern Civilizations 111. Power, Faith, and Fantasy: America in the Middle East, 1776 to the Present**

Catalog Number: 1091

Michael B. Oren

*Half course (spring term). Tu., Th., at 12 and a weekly section to be arranged. EXAM GROUP: 14*

A survey over two centuries of American military, diplomatic, economic, and cultural interaction with the Middle East. The course identifies the recurrent themes in the making of that relationship—the need to protect vital interests, the central role of religion, and the persistence of romantic myths—and examines the origins of America’s involvement in the region today.

***Primarily for Graduates***

**Near Eastern Civilizations 200a (formerly Islamic Civilizations 200a). Approaches to Middle Eastern Studies: Proseminar**

Catalog Number: 5918

Susan M. Kahn

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Interdisciplinary seminar serves as an introduction to the major disciplines constituting Middle Eastern Studies, including history, political science, anthropology, literature and Islamic Studies. Guest lecturers comprise faculty members.

*Note:* Required for students pursuing the AM in Middle Eastern Studies. Primarily for first-term students in the AM in Middle Eastern Studies program, although open to AM students in related fields.

**Near Eastern Civilizations 200b (formerly Islamic Civilizations 200b). Middle Eastern Studies Research Project: Seminar**

Catalog Number: 9274

Susan M. Kahn

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Interdisciplinary seminar where students are required to expand a paper written previously for another course in Middle Eastern Studies into a long research paper and present their findings to the seminar. Students critique the presentations.

*Note:* Required for students pursuing the AM in Middle Eastern Studies. Primarily for students in the final term in the AM in Middle Eastern Studies program, although open to AM students in related fields.

***Graduate Courses of Reading and Research***

**\*Near Eastern Civilizations 300. Direction of Master’s Thesis**

Catalog Number: 2448



*J. F. Coakley 3409, William E. Granara 1054, Jon D. Levenson (Divinity School) 2264, and Wheeler M. Thackston, Jr. 4004*

**\*Near Eastern Civilizations 390. Direction of Doctoral Dissertations**

Catalog Number: 3041

*Ali S. Asani 7739 (on leave 2005-06), Shaye J.D. Cohen 4180, William A. Graham, Jr. 4156, William E. Granara 1054, Jo Ann Hackett 2389, Paul D. Hanson (Divinity School) 1394, Jay M. Harris 2266 (on leave fall term), Wolfhart P. Heinrichs 4988 (on leave spring term), John Huehnergard 7697 (on leave 2005-06), Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, James R. Russell 3411, Bernard Septimus 7160 (on leave spring term), P. Oktor Skjaervo 2869, Lawrence E. Stager 1468 (on leave spring term), Piotr Steinkeller 7337, Wheeler M. Thackston, Jr. 4004, and Ruth R. Wisse 3177*

***Ancient Near Eastern and Biblical Studies***

See also below under Akkadian and Sumerian, Aramaic, Hebrew, and Semitic Philology.

***For Undergraduates and Graduates***

**[Ancient Near East 100. History of the Ancient Near East: Mesopotamia]**

Catalog Number: 0702

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*Half course (spring term). Hours to be arranged.*

Surveys the political and cultural history of Mesopotamia from c. 4000 B.C.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1115.

**[Ancient Near East 101. Introduction to Mesopotamian Archaeology](#)**

Catalog Number: 1245

*James A. Armstrong*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Surveys the archaeology of ancient Mesopotamia (geographically defined as the territory of modern Iraq plus immediately adjacent areas) from the Neolithic Period until the conquest of Alexander the Great. While theoretical issues and approaches will not be neglected, the emphasis in this class is on the archaeological data that are used in reconstructions of Mesopotamia's history and its ancient social systems.

**[Ancient Near East 102. Introduction to Mesopotamian Religion](#)**

Catalog Number: 0486

*Piotr Steinkeller*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

A survey of the sources, data, and principal concerns. A selection of texts are read in translation.

*Note:* Offered jointly with the Divinity School as 3661.

**[Ancient Near East 105. History of the Ancient Near East: The Levant (up to Alexander the Great)]**



Catalog Number: 0711

*Lawrence E. Stager*

*Half course (spring term). Hours to be arranged.*

The civilization and cultural traditions of the peoples of Syria-Palestine from the third millennium to the time of Alexander the Great.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1118.

**[Ancient Near East 115. Archaeology of the Levant (Syria-Palestine)]**

Catalog Number: 2813

*Lawrence E. Stager and Ofer Bar-Yosef*

*Half course (fall term). Hours to be arranged.*

A chronological survey of the archaeology of the Levant in which material culture provides a window on human evolution, society, economy, and religion from the Lower Palaeolithic to Hellenistic times. Special topics include the earliest colonization of *Homo erectus*, the origin of modern humans, the emergence of farming and pastoral societies, the formation and dissolution of Bronze Age city-states, and the rise and fall of Iron Age kingdoms such as Israel, Moab, and Edom.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1420.

Includes a lab section.

**Ancient Near East 117. Biblical Archaeology**

Catalog Number: 1371

*Lawrence E. Stager*

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

Archaeology and texts, such as the Bible, used to reconstruct aspects of social, economic, and religious life (from courtier to commoner) in ancient Israel during the Iron Age.

*Note:* Offered jointly with the Divinity School as 1422. Includes a lab section.

**Ancient Near East 118. Syro-Palestinian Pottery**

Catalog Number: 1368

*Lawrence E. Stager*

*Half course (fall term). F., 3–5. EXAM GROUP: 8, 9*

A basic introduction to the pottery sequence of Palestine and Syria from Neolithic through Roman times, with emphasis on typological attributes having chronological significance.

Conducted in the Harvard Semitic Museum laboratory.

*Note:* Includes a lab section.

**Ancient Near East 120. Introduction to the Hebrew Scriptures**

Catalog Number: 6544

*Michael D. Coogan*

*Half course (fall term). F., 9–11. EXAM GROUP: 2, 3*

A survey of the Hebrew Scriptures as viewed in their historical and cultural setting in the ancient Near East and as interpreted by modern scholarship, with attention to this literature as an expression of the religious thought of Israel and one of the formative influences on Western civilization.

*Note:* Offered jointly with the Divinity School as 1101.



**Ancient Near East 122. Biblical Interpretation**

Catalog Number: 4289

*Paul D. Hanson (Divinity School)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

The biblical Book of Isaiah will be studied with attention to its historical setting, its major themes, its literary qualities, and its place within the religion of ancient Israel. The class will also consider the ways in which this prophetic writing continues to influence contemporary religious and political thought and action.

*Note:* Offered jointly with the Divinity School as 1814.

*Prerequisite:* Ancient Near East 120 or equivalent.

**Ancient Near East 124. Myth and Myth-Making in the Biblical and Ancient Near Eastern World**

Catalog Number: 7859

*Peter Machinist*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

An exploration of the nature and function of myth in the context of the ancient Near East. The course focuses on selected mythic texts from various Near Eastern cultures and consider them in the light of general approaches to myth developed in Western scholarship. Particular attention is given to the issue of myth in the Hebrew Bible.

*Note:* Offered jointly with the Divinity School as 1128/3410.

**Ancient Near East 128. Jewish Apocalypticism**

Catalog Number: 8249

*Paul D. Hanson (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A study of Jewish apocalyptic movements from their roots in late biblical prophesy to their flowering in Hellenistic and Roman times. Attention will be paid to the biblical and extra-biblical traditions incorporated in these texts and woven into messages addressing crises such as persecution and forced assimilation. The manner in which books like Daniel and Revelation are used by contemporary apocalyptic movements will be assessed.

*Note:* All texts read in English translation. Offered jointly with the Divinity School as 1460.

*Prerequisite:* Ancient Near East 120 or the equivalent.

**Ancient Near East 131. Readings in the Septuagint**

Catalog Number: 3661

*Richard J. Saley*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

Aims to increase facility with Septuagint Greek by reading representative portions (predominantly prose) of the Septuagint and studying the peculiarities of the grammar inductively. The fundamentals of Koine Greek will be reviewed as necessary.

*Note:* Offered jointly with the Divinity School as 4215.

*Prerequisite:* One year of Greek.



**[Ancient Near East 134. Genesis: Narrative Artistry and Theological Meanings]**

Catalog Number: 3291

*Jon D. Levenson (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A close critical reading in English of the book of Genesis with an eye both to the storytellers' techniques and to the moral and theological dimensions of the text. Emphasis on literary and religious rather than historical and editorial issues.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1417.

*Prerequisite:* Ancient Near East 120.

**Ancient Near East 135. Biblical Theology: Hebrew Bible**

Catalog Number: 4476

*Paul D. Hanson (Divinity School)*

*Half course (spring term). Hours to be arranged.*

The theology of the Hebrew Bible studied by explicating major biblical themes (e.g., creation, liberation, war and peace, economic justice, social reform) and then relating them to issues in the contemporary world. Attention also given to background questions such as concepts of biblical authority and hermeneutical theory.

*Note:* Offered jointly with the Divinity School as 1150/2470.

*Prerequisite:* Ancient Near East 120 or equivalent.

**[Ancient Near East 138. The Bible and Politics]**

Catalog Number: 8073

*Paul D. Hanson (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Political models found in the Hebrew Bible; the role of biblical traditions in the development of church-state relations in the history of the US; the possibility of a suitable political theology within the context of contemporary religion and politics.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1465/2529.

***Primarily for Graduates***

**[Ancient Near East 210. Textual Criticism of the Hebrew Bible: Seminar]**

Catalog Number: 5492

*Richard J. Saley*

*Half course (fall term). Hours to be arranged.*

Focus is on the art of recovering/reconstructing the text of the Hebrew Bible on the basis of Hebrew and Greek manuscripts as well as other early textual witnesses.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1819.

*Prerequisite:* At least two years of Hebrew and one year of Greek; some knowledge of Aramaic, Latin, and Syriac is beneficial but not required.

**[\*Ancient Near East 215r. Problems in the Archaeology of Bronze and Iron Age Levant: Seminar]**

Catalog Number: 2960

*Lawrence E. Stager*



*Half course (fall term). Hours to be arranged.*

Topic for 2006-07: To be announced.

*Note:* Expected to be given in 2006–07. Conducted in the Harvard Semitic Museum Laboratory.

**Ancient Near East 222 (formerly Ancient Near East 121). History of the Study of the Hebrew Bible: From the Renaissance to the Present: Seminar**

Catalog Number: 8086

*Peter Machinist*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Surveys Hebrew biblical scholarship since the Renaissance, focusing on particular scholars and their representative and seminal works. The central theme is the emergence of and reactions to a historical-critical understanding of the Bible.

*Note:* Offered jointly with the Divinity School as 1425.

*Prerequisite:* A background in the study of the Hebrew Bible. Also, Biblical Hebrew and at least one of the following: French, German, and Modern Hebrew.

**[Ancient Near East 236. Biblical Theology: Seminar]**

Catalog Number: 7022

*Paul D. Hanson (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An examination of resources within the Bible for the construction of contemporary political theology.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1801/2471.

*Prerequisite:* Ancient Near East 120 or equivalent.

***Cross-listed Courses***

**\*History of Art and Architecture 137. Cross-Cultural Aesthetics: Proseminar**

**[Literature and Arts A-53. “Athens and Jerusalem”: Self and Other in Classical Greek and Hebrew Literature]**

**Literature and Arts A-70. The Book of Job and the Joban Tradition**

***Graduate Courses of Reading and Research***

**\*Ancient Near East 310. Reading and Research in Ancient Near Eastern Archaeology**

Catalog Number: 4264

*Lawrence E. Stager 1468 (on leave spring term)*

**\*Ancient Near East 320. Reading and Research in Ancient Mesopotamian Civilization**

Catalog Number: 5678

*John Huehnergard 7697 (on leave 2005-06), Peter Machinist 2812, and Piotr Steinkeller 7337*

**\*Ancient Near East 330. Reading and Research in Biblical Studies**

Catalog Number: 1524

*J. F. Coakley 3409, Jo Ann Hackett 2389, Paul D. Hanson (Divinity School) 1394, Jon D.*



*Levenson (Divinity School) 2264, Peter Machinist 2812, and Lawrence E. Stager 1468 (on leave spring term)*

## ***Postbiblical Jewish Studies***

See also below under Aramaic, Hebrew, and Yiddish.

### ***For Undergraduates and Graduates***

#### **Jewish Studies 104. Introduction to Yiddish Culture**

Catalog Number: 8611

*Beatrice Caplan*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

An exploration of a thousand years of European Jewish culture through its vernacular, Yiddish. Topics covered will demonstrate the geographical, intellectual, and artistic breadth of this culture, and will include the history of the Yiddish language, selections of pre-modern and modern Yiddish literature, folklore, the press, film, theater, klezmer music, and song.

*Note:* Course readings and lectures will be in English.

#### **[Jewish Studies 110. Modern Jewish Religious Movements]**

Catalog Number: 0214

*Jay M. Harris*

*Half course (spring term). Hours to be arranged.*

A study of the various forms of Judaism that have emerged in the last two centuries. Examination of the Reform, Orthodox, Conservative, and Reconstructionist movements, as well as Hasidism and its opposition. Emphasis is on institutions, ideology, and significant figures.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3681.

#### **Jewish Studies 111. Modern Jewish Thought**

Catalog Number: 5461

*Jay M. Harris*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

A study of significant Jewish thinkers in the modern period and their reflections on the past and present meaning of Judaism. All thinkers studied against the background of premodern Jewish thought and the challenges posed by modern Western philosophical systems.

*Note:* Offered jointly with the Divinity School as 3682.

#### **Jewish Studies 114. History versus Literature in Modern Jewish Texts**

Catalog Number: 3527

*Avi Matalon*

*Half course (spring term). M., W., at 12. EXAM GROUP: 5*

Examines the treatment of history in modern Jewish and Israeli literature.

#### **Jewish Studies 133. Beginnings of Hasidism: Seminar**

Catalog Number: 9140





*Gershon David Hundert (McGill University)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Seminar on the origins and early years of the Hasidic movement.

*Note: Offered jointly with the Divinity School as 3936.*

**Jewish Studies 134. The History of Zionist and Israeli Diplomacy: Seminar**

Catalog Number: 3555

*Michael B. Oren*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

The seminar investigates a century of Zionist and Israeli diplomacy, from early attempts to secure Great Power backing for Zionism to contemporary Israeli negotiations with foreign governments. Students will examine documents from the Balfour Declaration to the Oslo Accords, and study the circumstances and personalities surrounding them. Emphasis will be placed on Zionist and Israeli objectives, and the degree to which these were, or were not, achieved.

**Jewish Studies 140. Deconstruction and Questions of Jewish Identity: Seminar**

Catalog Number: 2198

*Avi Matalon*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Examines the work of philosopher Jacques Derrida (1930–2004) and the method of deconstruction. Focuses on Derrida’s writings that touch on questions of identity, as developed in his prolific career.

***Cross-listed Courses***

**Comparative Literature 153. Saul Bellow’s Planet**

[Comparative Literature 166. The Comic Tradition in Jewish Culture]

[Foreign Cultures 56. Jewish Life in Eastern Europe]

**German 145. The “Entrance Ticket” to European Culture: German-Jewish Literature and Thought, 1750–1918**

[Historical Study A-44. Jews in Modern Times: From the French Revolution to the Emergence of Israel]

**History 1091 (formerly Jewish Studies 125). Jewish History in the Second and Post-Temple Period**

**History 1150. The Jews in Muslim and Christian Spain**

**History 1419. History of the Jews in Poland**

**Literature and Arts A-48. Modern Jewish Literature**

**Religion 1212a. Judaism: The Liturgical Year**

**Religion 1212b. Judaism: The Liturgical Year**

[Religion 1260. Midrash: Jewish Biblical Interpretation in the Rabbinic Period]

**Spanish 115. The Hispanic and the Judaic after 1492: Seminar**

***Primarily for Graduates***



**\*Jewish Studies 200r. Guided Readings in Jewish History**

Catalog Number: 4478

Jay M. Harris

*Half course (fall term; repeated spring term). Hours to be arranged.*

**Jewish Studies 210. From Pharisees to Rabbis: Seminar**

Catalog Number: 1785

Shaye J.D. Cohen

*Half course (spring term). Hours to be arranged. Organizational Meeting: Th., Feb 2, 10 am, Semitic Museum 304. EXAM GROUP: 6, 7*

Explores the connections between the Pharisees of the Second Temple period and the Rabbis of the Mishnah, and the “reconstruction” of Judaism at Yavneh.

*Note:* Offered jointly with the Divinity School as 3910.

*Prerequisite:* Ability to read the Gospel of Matthew in Greek or the ability to read Mishnaic Hebrew, preferably both.

***Graduate Courses of Reading and Research***

**\*Jewish Studies 300. Reading and Research in Postbiblical Jewish Studies**

Catalog Number: 1544

Shaye J.D. Cohen 4180, Jay M. Harris 2266 (on leave fall term), Bernard Septimus 7160 (on leave spring term), and Ruth R. Wisse 3177

***Early Iranian Civilizations***

***For Undergraduates and Graduates***

See also below under Arabic, Aramaic, and Iranian.

**Early Iranian Civilizations 102. Old Iranian Religion/Zoroastrianism**

Catalog Number: 5408

P. Oktor Skjaervo

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

Introduction to and readings in Mazdaism/Zoroastrianism (on the basis of translated texts).

*Note:* Offered jointly with the Divinity School as 3663a.

**Early Iranian Civilizations 103. Manicheism**

Catalog Number: 2604

P. Oktor Skjaervo

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

Introduction to and readings in Iranian Manicheism (on the basis of translated texts).

*Note:* Offered jointly with the Divinity School as 3580.

***Islamic Civilizations***



See also below under Arabic, Iranian, and Turkish.

***For Undergraduates and Graduates***

**Islamic Civilizations 120. The Muslim Mediterranean City**

Catalog Number: 0686

*Susan G. Miller*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Cities have defined Mediterranean culture for thousands of years. Using sources from medieval times to the present, the interaction between urban form and social practice is traced against the background of an encompassing Islamic culture. Topics include theories about Islam and urbanism, the city as sacred space, modernism and the making of the colonial city, the contemporary city and the literary imagination, and the city in the age of globalization.

*Note:* This course meets in CMES, 1430 Mass Ave, Room 406. Offered jointly with the Graduate School of Design as 4118.

**[Islamic Civilizations 124. Central Asian Culture and Society]**

Catalog Number: 3927

*John S. Schoeberlein*

*Half course (fall term). Hours to be arranged.*

Explores the diversity and continuity in contemporary Central Asian culture and society and their historical roots. Course readings draw on diverse sources from travelers' and ethnographic accounts to indigenous traditions and Western analyses. Topics include principles of social order and cultural values stemming from nomadic traditions, Islamic civilizations, nationalist movements and the Soviet system. Particular attention is devoted to post-Soviet developments and the challenges of social transformation and potential conflict facing the region.

*Note:* Expected to be given in 2006–07. Primarily for advanced undergraduates and graduate students; some background in the Near East and/or the former Soviet Union is desirable.

**Islamic Civilizations 150. Ottoman Legal History**

Catalog Number: 3980

*Engin D. Akarli (Brown University)*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

This seminar course will introduce the student to general features of the Ottoman legal system, focusing on the following three in particular: the pluralism of the Ottoman legal system within which the Islamic legal tradition, the sovereign's regulatory authority, and custom interacted; its accommodating (as opposed to disputatious) nature as observed in courts and other dispute settlement forums; and the converging and diverging of judicial, official, and popular notions of justice.

**Islamic Civilizations 160. The Meanings of Islam in Central Asia**

Catalog Number: 8678

*John S. Schoeberlein*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Examines the changing role of Islam in Central Asia through history from a multidisciplinary



perspective. Considers the diversity and multi-dimensionality of Islam as it influences social, cultural, political and religious life. Themes include: Islam and social order; Islam under Russian and Communist rule; Sufism, modernist Islam, "fundamentalism" and other forms of belief and practice; and the dynamic new role of Islam in the region following independence in 1991.

*Note:* Intended primarily for advanced undergraduates and graduate students; some background in Islam and/or the former Soviet Bloc desirable.

### ***Primarily for Graduates***

#### **[\*Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam]**

Catalog Number: 7515

*Ali S. Asani*

*Half course (fall term; repeated spring term). Hours to be arranged.*

A seminar for graduate students focusing on current scholarship on Islamic civilization in South Asia.

*Note:* Expected to be given in 2006–07. Open to undergraduates with a background in Islamic or South Asian studies.

*Prerequisite:* Introductory coursework on Islam, Religion 1585 or equivalent.

### ***Cross-listed Courses***

#### **[Classics 192. "From Alexandria to Baghdad": Classical Sciences in Islamic Lands](#)**

**[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]**

**[Foreign Cultures 82. Modern Arabic Narratives: Self, Society, and Culture]**

#### **[Historical Study A-40. The Middle East and Europe since the Crusades: Relations and Perceptions](#)**

#### **[History 1877a. History of the Near East, 600-1055](#)**

**[History 1877b. History of the Near East, 1055-1517: Conference Course]**

**[History 1878b. Ottoman State and Society II (1550-1920)]**

#### **[History 2884. Topics in Ottoman Social and Cultural History: Seminar](#)**

#### **[History 2886r. Topics in Islamic History: Seminar](#)**

#### **[\\*History of Art and Architecture 124z. Architecture and Dynastic Legitimacy: The Early Modern Islamic Empires \(1450-1650\)](#)**

#### **[\\*History of Art and Architecture 224m. Drawing in the Pre-Modern Islamic World](#)**

#### **[\\*History of Art and Architecture 226e. Cross-Cultural Artistic Exchanges: Islamic and European Courts](#)**

#### **[Literature and Arts B-35. The Age of Sultan Suleyman the Magnificent: Art, Architecture, and Ceremonial at the Ottoman Court](#)**

**[Religion 1801 (formerly Religion 1551). For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]**

**[Religion 1802 (formerly Religion 1555). Introduction to Islamic Mysticism: The Sufi Tradition]**

#### **[Religion 1810. Representations of the Prophet Muhammad through History: Seminar](#)**

**[\*Religion 1820 (formerly \*Religion 1585). Islam in South Asia: Religion, Culture, and Identity in South Asian Muslim Societies]**



### ***Graduate Courses of Reading and Research***

#### **\*Islamic Civilizations 300. Reading and Research in Islamic Civilizations**

Catalog Number: 1963

*Ali S. Asani 7739 (on leave 2005-06), William A. Graham, Jr. 4156, William E. Granara 1054, Wolfhart P. Heinrichs 4988 (on leave spring term), and Wheeler M. Thackston, Jr. 4004*

#### **\*Islamic Civilizations 350. Reading and Research in Ottoman History and Literature**

Catalog Number: 4084

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### ***Armenian Studies***

See also below under Armenian.

### ***For Undergraduates and Graduates***

#### **Armenian Studies 100. Armenian Epic**

Catalog Number: 2576

*James R. Russell*

*Half course (fall term). Hours to be arranged.*

Reading in translation of *The Wild Men of Sasun*, with analysis of native historical and mythological sources, and thematic comparison to epic poetry of the neighboring Iranians (Ossetic *Narts*, Persian *Shah-nameh*, Kurdish epic songs), Turks (*Dede Korkut*), and Greeks (*Digenes Akrites*).

#### **[Armenian Studies 105. Survey of 19th and 20th Century Armenian Poetry: From Romantics to Revolutionaries]**

Catalog Number: 3496

*James R. Russell*

*Half course (fall term). Hours to be arranged.*

A survey of the great innovators and visionaries: Bedros Tourian, Misak Medzarents, Yeghia Demirjibashian, Daniel Varouzhan, Siamanto, Vahan Teryan, Yeghishe Charents, and their English, Russian, and French colleagues and translators. The course spans the fateful epoch from the mid-19th century to the aftermath of the Russian Revolution.

*Note:* Expected to be given in 2006–07. Knowledge of Armenian preferred but not required.

### ***Primarily for Graduates***

#### **[Armenian Studies 200r. Guided Readings in Armenian Studies]**

Catalog Number: 8105

*James R. Russell*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.



### ***Graduate Courses of Reading and Research***

#### **\*Armenian Studies 300. Reading and Research in Armenian Studies**

Catalog Number: 1740

*James R. Russell 3411*

### ***Akkadian and Sumerian***

See also above under Ancient Near Eastern and Biblical Studies.

### ***Akkadian***

#### ***For Undergraduates and Graduates***

#### **Akkadian A. Elementary Akkadian**

Catalog Number: 4891

*Andrea Seri*

*Full course (indivisible). M., W., F., at 9. EXAM GROUP: 2*

Introduction to the fundamentals of Akkadian grammar and the most commonly encountered Neo-Assyrian cuneiform signs.

#### **Akkadian 120. Intermediate Akkadian**

Catalog Number: 3724

*Andrea Seri*

*Full course (indivisible). M., W., F., at 11. EXAM GROUP: 4*

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

#### **Akkadian 142. Akkadian Hymns and Prayers**

Catalog Number: 6387

*Andrea Seri*

*Half course (spring term). M., W., 3–4:30. EXAM GROUP: 8, 9*

Readings from the various genres of Akkadian hymns and prayers, with particular emphasis on the genre of *shuilla* prayers. In the course of the term, students are expected to master the style and vocabulary of these texts, as well as to learn how to reconstruct a text from several manuscripts.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

#### **Akkadian 144. Akkadian Divination Texts**

Catalog Number: 6734

*Piotr Steinkeller*

*Half course (fall term). Th., 2–5. EXAM GROUP: 16, 17, 18*

#### **[Akkadian 148. Akkadian Letters]**

Catalog Number: 0975

*John Huehnergard*



*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Akkadian A.

**[Akkadian 149. Akkadian Legal and Economic Texts]**

Catalog Number: 6703

*Piotr Steinkeller*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 153. Old Akkadian]**

Catalog Number: 8334

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged.*

Readings in representative historical, epistolary, literary, and economic texts with emphasis on the grammar.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**Akkadian 154a. Peripheral Akkadian**

Catalog Number: 2416

*Piotr Steinkeller*

*Half course (fall term). W., 2–5. EXAM GROUP: 7, 8, 9*

*Prerequisite:* Two full courses in Akkadian.

***Primarily for Graduates***

**Akkadian 200r. Readings in Akkadian: Seminar**

Catalog Number: 2970

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged.*

***Graduate Courses of Reading and Research***

**\*Akkadian 300. Akkadian Language and Literature**

Catalog Number: 2233

*John Huehnergard 7697 (on leave 2005-06), Peter Machinist 2812, and Piotr Steinkeller 7337*

***Sumerian***

***For Undergraduates and Graduates***

**[Sumerian A. Elementary Sumerian]**

Catalog Number: 5260

*Piotr Steinkeller*





*Full course (indivisible). Hours to be arranged.*

Introduction to the Sumerian language with emphasis on grammatical structure.

*Note:* Expected to be given in 2006–07.

**[Sumerian 120. Intermediate Sumerian]**

Catalog Number: 7399

*Piotr Steinkeller and assistant*

*Full course (indivisible). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Knowledge of basic Sumerian grammar, vocabulary, and cuneiform script.

**[Sumerian 145. Sumerian Incantations and Rituals]**

Catalog Number: 5259

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

**[Sumerian 146. Sumerian Religious Literature]**

Catalog Number: 2605

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2007–08.

**[Sumerian 149. Sumerian Legal and Economic Texts]**

Catalog Number: 8820

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

***Primarily for Graduates***

**[Sumerian 200r. Readings in Sumerian: Seminar](#)**

Catalog Number: 7496

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged.*

***Cross-listed Courses***

**[Linguistics 225a. Introduction to Hittite]**

**[Linguistics 226r. Advanced Hittite]**

***Graduate Courses of Reading and Research***

**\*Sumerian 300. Sumerian Language and Literature**

Catalog Number: 7912

*Piotr Steinkeller 7337*



## Arabic

See also Islamic Civilizations.

### ***For Undergraduates and Graduates***

#### **Arabic A. Elementary Arabic**

Catalog Number: 5773

*Mostafa Atamnia and staff*

*Full course (indivisible). Sections M. through F., at 9 or 10. EXAM GROUP: 2, 11*

Introduces students to the phonology and script of classical/modern standard Arabic and covers the basic morphology and syntax of the written language. Emphasis on the development of the four skills (reading, speaking, listening, and writing) at the earliest stages. Samples of modern (contemporary) and classical styles of writing introduced into basic syllabus, and audio-visual material from the contemporary Arabic media.

*Note:* Not open to auditors. Cannot be taken pass/fail.

#### **Arabic 120a. Intermediate Classical Arabic I**

Catalog Number: 1106

*William E. Granara and staff*

*Half course (fall term). M. through F., at 10. EXAM GROUP: 3, 12*

A thorough review of classical Arabic grammar with emphasis on reading and writing, with some discussion in Arabic in class for vocabulary and structure reinforcement. Readings focus on medieval Arabic historiography: biographical dictionaries, chronicles, and geography/“travel” literature. Contemporary texts dealing with “classical” themes will form part of the syllabus to help students develop better reading fluency.

*Note:* Not open to auditors. Cannot be taken pass/fail.

*Prerequisite:* Arabic A or equivalent.

#### **Arabic 120b. Intermediate Classical Arabic II**

Catalog Number: 0597

*William E. Granara and staff*

*Half course (spring term). M. through F., at 10. EXAM GROUP: 3, 12*

Continuation of Arabic 120a.

*Note:* Not open to auditors. Cannot be taken pass/fail.

*Prerequisite:* Arabic 120a or equivalent.

#### **Arabic 121a. Intermediate Modern Arabic I**

Catalog Number: 0973

*William E. Granara and staff*

*Half course (fall term). Sections I & II: M. through F., at 11; Section III: M. through F., at 12. EXAM GROUP: 4, 13*

A continuation of Elementary Arabic with equal emphasis on speaking, reading, oral, and aural skills. Selections from contemporary Arabic media are introduced and serve as bases for reading and conversation.



*Note:* Not open to auditors. Cannot be taken pass/fail.

*Prerequisite:* Arabic A or equivalent.

### **Arabic 121b. Intermediate Modern Arabic II**

Catalog Number: 0685

*William E. Granara and staff*

*Half course (spring term). Sections I & II: M. through F., at 11; Section III: M. through F., at 12. EXAM GROUP: 4, 13*

A continuation of Arabic 121a.

*Note:* Not open to auditors. Cannot be taken pass/fail.

*Prerequisite:* Arabic 121a or equivalent.

### **Arabic 130a. Advanced Classical Arabic I**

Catalog Number: 4591

*Carl Sharif El-Tobgui*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Concentration on readings from classical Islamic texts, with emphasis on Qur'an, *hadîth*, *sîra*, and *tafsîr* literature; directed readings and textual analysis; review of classical Arabic morphology and syntax.

*Note:* Not open to auditors.

*Prerequisite:* Arabic 120b or equivalent.

### **Arabic 130b. Advanced Classical Arabic II**

Catalog Number: 2964

*Carl Sharif El-Tobgui*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Continuation of Arabic 130a or may be taken separately with permission of the instructor.

Readings from corpus of “Adab” (Belles-Lettres) literature, as well as various pieces of classical Arabic poetry.

*Note:* Not open to auditors.

*Prerequisite:* Arabic 130a or equivalent.

### **Arabic 131a. Advanced Modern Arabic I**

Catalog Number: 0739

*Khaled Al-Masri and assistants*

*Half course (fall term). M. through Th., at 1. EXAM GROUP: 6, 15*

Reading and discussion of selections from Arabic newspapers and journals on contemporary political, social, religious, and cultural issues in the Arab world. Emphasis on developing advanced reading and speaking skills, with some attention to writing and listening comprehension.

*Note:* Not open to auditors.

*Prerequisite:* Arabic 121b or equivalent.

### **Arabic 131b. Advanced Modern Arabic II**

Catalog Number: 0697

*Khaled Al-Masri and assistants*



*Half course (spring term). M. through Th., at 1. EXAM GROUP: 6, 15*

A continuation of Arabic 131a or may be taken separately with permission of the instructor. Continued emphasis on advanced reading and speaking skills, and introduction to contemporary Arabic fiction, with emphasis on short stories and novellas.

*Note:* Not open to auditors.

*Prerequisite:* Arabic 131a or equivalent.

### **Arabic 133. Advanced Spoken Modern Standard Arabic**

Catalog Number: 4747

*Carl Sharif El-Tobgui*

*Half course (fall term). M., W., 3–5. EXAM GROUP: 8, 9*

This course emphasizes the development of advanced speaking and listening skills by exposing students to the Arabic of the contemporary media. Some reading and writing will be required, but classes will revolve around oral presentations and directed conversations.

*Note:* Not open to auditors.

*Prerequisite:* Two years of Standard Arabic or the equivalent.

### **Arabic 135. Colloquial Egyptian Arabic**

Catalog Number: 4454

*William E. Granara*

*Half course (spring term). M. through Th., at 12. EXAM GROUP: 5, 14*

Introduces students to Egyptian Arabic, the most widely recognized dialect in the Arab world. The course emphasizes the development of speaking and listening skills through the reinforcement of grammar and vocabulary.

*Note:* Not open to auditors.

*Prerequisite:* At least two years of Standard Arabic or the equivalent, or by permission of the instructor.

### **[Arabic 146r. History of the Arabic Languages]**

Catalog Number: 8526

*Wolfhart P. Heinrichs*

*Half course (spring term). Hours to be arranged.*

A presentation of the linguistic and cultural history of the various forms of Arabic, including Old North Arabian, Early Classical Arabic (pre-Islamic poetry and Koran), medieval Islamic Arabic, Middle Arabic (with Judeo-Arabic) and the dialects.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Two years of Arabic or equivalent.

### **Arabic 147. Middle Arabic**

Catalog Number: 6987

*Wolfhart P. Heinrichs*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

This course will look into the linguistic and, to a lesser extent, literary characteristics of works written in Middle Arabic, including medieval folk literature (such as *Arabian Nights*, *Antar Romance*) and the Arabic writings of minorities (Jews, both Rabbanites and Karaites; and Christians, including works written in *Karshûnî*).



**Arabic 148. The Epic Tradition in Arabic Literature**

Catalog Number: 8619

*Abd-el-Hameed Hawwas*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

This course will introduce students to the epic literature of the Arab world beginning with medieval cycles of *Antar* and popular traditions of the Prophet, and extending into contemporary versions of the *Bani Hilal* from Egypt and North Africa. Questions of oral composition, performance, audience reception, heroes and villains, and historic/political contexts that inform the different retellings will form the bases of discussion.

*Note:* Course readings and lectures will be in English.

*Prerequisite:* Arabic helpful, but not required.

**[Arabic 150r. History of Classical Arabic Literature]**

Catalog Number: 7759

*Wolfhart P. Heinrichs*

*Half course (spring term). Hours to be arranged.*

Overview of Classical Arabic literature, including reading and discussion of selected texts.

*Note:* Expected to be given in 2006–07. Knowledge of Arabic advantageous. An additional hour may be set aside for reading in the originals.

**Arabic 158. Arabic Autobiography and the Novel: Seminar**

Catalog Number: 5145

*William E. Granara*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

Examines the emergence of first-person narratives in modern Arabic writing with focus on the literary and historical intersections between autobiography and fiction. Topics will include the role of individuals in confronting tradition and modernity, colonialism, political oppression, patriarchy, and religion. Readings include literary and critical texts.

*Prerequisite:* Arabic helpful but not required.

**[Arabic 160r. Readings in Arabic Historians, Geographers, and Biographers]**

Catalog Number: 5617

*Roy Mottahedeh*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

***Primarily for Graduates***

**Arabic 230a. Hadith I: Seminar**

Catalog Number: 4223 Enrollment: Limited to 12.

*M. Shahab Ahmed*

*Half course (fall term). M., 2–5. EXAM GROUP: 7, 8*

An introduction to the Hadith literature, its historical development, its content, and its religious and cultural significance in Islam, through readings from the major Hadith collections, *‘ulum al-hadith* works, biographical dictionaries, and modern scholarship.



*Note:* Not open to auditors.

*Prerequisite:* Advanced proficiency in Arabic.

**Arabic 230b. Hadith II: Seminar**

Catalog Number: 4362 Enrollment: Limited to 12.

*M. Shahab Ahmed*

*Half course (spring term). M., 2–5. EXAM GROUP: 7, 8*

Readings from the debate, conducted both in the Western academy and in Muslim discourses, from the 19th century to today, over the authenticity and reliability of the Hadith corpus, and of the early Muslim historical tradition at large.

*Note:* Not open to auditors.

*Prerequisite:* Arabic 230a and advanced proficiency in Arabic.

**[Arabic 240r. Classical Arabic Philology]**

Catalog Number: 5920

*Wolfhart P. Heinrichs*

*Full course (indivisible). Hours to be arranged.*

Arabic philology, including discussion of difficult grammatical problems, introduction to manuscript and editorial work, and readings from the *‘ulûm al-lugha* (fall) and *‘ulûm al-dîn* (spring).

*Note:* Expected to be given in 2006–07. This constitutes the fourth and final year of the Classical Arabic track.

**Arabic 241ar (formerly Arabic 241a). Modern Arabic Literature and Culture**

Catalog Number: 3309

*Khaled Al-Masri*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

This constitutes the final year of Modern Arabic track. Representative readings from contemporary literature and culture will form bases of discussions on major themes in contemporary Arab society.

*Note:* Conducted in Arabic. Not open to auditors.

*Prerequisite:* Advanced proficiency in Arabic.

**Arabic 241br (formerly Arabic 241b). Modern Arabic Literature and Culture**

Catalog Number: 6399

*Abd-el-Hameed Hawwas*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A continuation of Arabic 241ar. Topic for 2005–06: Folklore and Mythology in the Arabic Short Story.

**[Arabic 242. Selected Topics in Modern Arabic Literature and Literary Criticism: Seminar]**

Catalog Number: 1913

*William E. Granara*

*Half course (fall term). Hours to be arranged.*



Topic for 2006-07: To be announced.

*Note:* Expected to be given in 2006–07.

**Arabic 245r. Classical Arabic Literature: Seminar**

Catalog Number: 4854

*Wolfhart P. Heinrichs*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Topic for 2005-06: Abû Hayyân al-Tawhîdî.

*Prerequisite:* Reading knowledge of Arabic.

**[Arabic 246r. Maghribi Literary and Cultural Texts: Seminar]**

Catalog Number: 6196

*William E. Granara*

*Half course (spring term). Hours to be arranged.*

Literary and historical texts of the Arabo-Islamic cultures of Spain (*al-Andalus*), Sicily, and North Africa. Examines the emergence of a “Maghribi” identity amidst cross-cultural relations with the Christian North and the Muslim East.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Three years of Arabic, or permission from the instructor.

**[Arabic 248r. Medieval Arabic Writings on Grammar: Seminar]**

Catalog Number: 1440

*Wolfhart P. Heinrichs*

*Half course (fall term). Hours to be arranged.*

Introduction to the study of the medieval Arabic disciplines dealing with language. Discussion of selected topics on the basis of text readings and recent secondary language.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of Arabic.

***Cross-listed Courses***

**Religion 2840. Ibn Taymiyyah and His Times: Seminar**

***Graduate Courses of Reading and Research***

**\*Arabic 300. Reading and Research in Arabic Language and Civilization**

Catalog Number: 7828

*William A. Graham, Jr. 4156, William E. Granara 1054, Wolfhart P. Heinrichs 4988 (on leave spring term), Roy Mottahedeh 1454, and Wheeler M. Thackston, Jr. 4004*

**\*Arabic 320. Reading and Research in Modern Arabic Literature and Literary Criticism**

Catalog Number: 9167

*William E. Granara 1054*

***Aramaic***





***For Undergraduates and Graduates***

See also Ancient Near East and Biblical Studies, Jewish Studies, and Early Iranian Civilizations.

**Aramaic A. Introduction to Targumic Aramaic**

Catalog Number: 5985

*Jo Ann Hackett and assistant*

*Half course (fall term). Hours to be arranged.*

An introduction to the grammar of the Aramaic of Targum Onqelos.

*Note:* No previous knowledge of any Semitic language is assumed.

**Aramaic C. Elementary Syriac**

Catalog Number: 3494

*J. F. Coakley*

*Full course (indivisible). Fall: M., W., F., at 10; Spring: M., W., F., at 10; Tu., 2:30–4. EXAM GROUP: 3*

Basic Syriac grammar and syntax, with selected readings from the Syriac Bible and other early texts.

**[Aramaic 124a. Readings in Syriac I]**

Catalog Number: 5557

*J. F. Coakley*

*Half course (fall term). Hours to be arranged.*

Historical and theological texts, and early poetry.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Aramaic C or equivalent.

**[Aramaic 124b. Readings in Syriac II]**

Catalog Number: 0103

*J. F. Coakley*

*Half course (spring term). Hours to be arranged.*

Special attention to exegetical texts and to reading manuscripts.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Aramaic C or equivalent.

**[Aramaic 128. Introduction to Turoyo]**

Catalog Number: 3747

*Wolfhart P. Heinrichs*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Some knowledge of Syriac or any other classical Aramaic language.

***Graduate Courses of Reading and Research***



**\*Aramaic 300. Aramaic Language and Literature**

Catalog Number: 5758

*Shaye J.D. Cohen 4180, Jo Ann Hackett 2389, and John Huehnergard 7697 (on leave 2005-06)*

***Armenian***

See also Armenian Studies.

***For Undergraduates and Graduates***

**Armenian A. Elementary Classical Armenian**

Catalog Number: 5476

*James R. Russell*

*Full course (indivisible). Hours to be arranged.*

Introduction to classical Armenian grammar and reading of selected texts.

**Armenian B. Elementary Modern Eastern Armenian**

Catalog Number: 7168

*James R. Russell*

*Full course (indivisible). Hours to be arranged.*

Introduction to the spoken and literary language of the Republic of Armenia.

**Armenian 120a. Intermediate Modern Eastern Armenian**

Catalog Number: 4892

*James R. Russell*

*Half course (fall term). Hours to be arranged.*

*Prerequisite:* Armenian B or equivalent.

**Armenian 121a. Intermediate Classical Armenian**

Catalog Number: 0626

*James R. Russell*

*Half course (fall term). Hours to be arranged.*

*Prerequisite:* Armenian A or equivalent.

**[Armenian 130. Advanced Classical Armenian]**

Catalog Number: 4926

*James R. Russell*

*Full course. Hours to be arranged.*

The text of St. Grigor Narekats'i *Matean olbergut'ean*, with other mystical texts from Armenian and Eastern Christian traditions.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Armenian A.

***Primarily for Graduates***



**[Armenian 240r. Readings in Classical Armenian]**

Catalog Number: 6603

*James R. Russell*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note: Expected to be given in 2006–07.*

**[Armenian 241r. Readings in Modern Armenian Literature]**

Catalog Number: 8746

*James R. Russell*

*Half course (fall term). Hours to be arranged.*

*Note: Expected to be given in 2006–07.*

***Graduate Courses of Reading and Research***

**\*Armenian 300. Armenian Language and Literature**

Catalog Number: 0240

*James R. Russell 3411*

***Ethiopic***

***For Undergraduates and Graduates***

**Ethiopic A. Introduction to Classical Ethiopic (Ge'ez)**

Catalog Number: 7667

*Jo Ann Hackett and assistant*

*Full course (indivisible). Hours to be arranged.*

**[Ethiopic 120ar. Readings in Classical Ethiopic (Ge'ez) Texts I]**

Catalog Number: 0231

*John Huehnergard*

*Half course (fall term). Hours to be arranged.*

*Note: Expected to be given in 2006–07.*

*Prerequisite: Ethiopic A.*

**[Ethiopic 120br. Readings in Classical Ethiopic (Ge'ez) Texts II]**

Catalog Number: 0390

*John Huehnergard*

*Half course (spring term). Hours to be arranged.*

*Note: Expected to be given in 2006–07.*

*Prerequisite: Ethiopic A.*

***Graduate Courses of Reading and Research***

**\*Ethiopic 300. Ethiopian Semitic Language and Literature**

Catalog Number: 5135

*John Huehnergard 7697 (on leave 2005-06)*



## **Hebrew**

See also Ancient Near Eastern and Biblical Studies and Jewish Studies.

### **Language Courses**

#### **For Undergraduates and Graduates**

##### **Classical Hebrew A. Elementary Classical Hebrew**

Catalog Number: 8125

*Jo Ann Hackett*

*Full course (indivisible). Tu., Th., 1–2:30 and a weekly section to be arranged. EXAM GROUP: 15, 16*

A thorough and rigorous introduction to biblical Hebrew, with emphasis on grammar in the first term, and translation of biblical prose in the second. Daily preparation and active class participation mandatory.

*Note:* Offered jointly with the Divinity School as 4010.

##### **Classical Hebrew 120a. Intermediate Classical Hebrew I**

Catalog Number: 5545

*Jo Ann Hackett and assistant*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

Readings in prose books; review of grammar.

*Note:* Offered jointly with the Divinity School as 4020.

*Prerequisite:* Classical Hebrew A or equivalent.

##### **Classical Hebrew 120b. Intermediate Classical Hebrew II**

Catalog Number: 8494

*Jo Ann Hackett and assistant*

*Half course (spring term). M., 2–3:30, W., 1:30–3. EXAM GROUP: 6, 7, 8*

Readings in prose and poetic books; review of grammar.

*Note:* Offered jointly with the Divinity School as 4021.

*Prerequisite:* Classical Hebrew 120a or equivalent.

##### **Classical Hebrew 130ar. Rapid Reading Classical Hebrew I**

Catalog Number: 7895

*Jo Ann Hackett and assistant*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

*Note:* Offered jointly with the Divinity School as 1625/4030.

*Prerequisite:* Classical Hebrew A, 120a, and 120b, or equivalent.

##### **Classical Hebrew 130br. Rapid Reading Classical Hebrew II**

Catalog Number: 7896

*Jo Ann Hackett and assistant*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*



*Note:* Offered jointly with the Divinity School as 1626/4031.

*Prerequisite:* Classical Hebrew 130a or equivalent.

**[Classical Hebrew 138. Historical Grammar of Biblical Hebrew ]**

Catalog Number: 4415

*John Huehnergard*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Classical Hebrew 130, or equivalent.

**Modern Hebrew B. Elementary Modern Hebrew**

Catalog Number: 4810

*Miri Kubovy and Irit Aharony*

*Full course (indivisible). Sections I & II: M. through F., at 9 and an additional hour to be arranged; Section III: M. through F., at 10 and an additional hour to be arranged. EXAM GROUP: 2, 11*

For students with no previous instruction in Hebrew and for those who have had some unsystematic exposure to the language. Emphasis on developing skills necessary for fluent reading, speaking, and writing basic sentences in all tenses. Grammar is taught through the Israeli “Top 40.”

**Modern Hebrew 120a. Intermediate Modern Hebrew I**

Catalog Number: 1711

*Irit Aharony and Anna Grinfeld*

*Half course (fall term). Section I: M. through F., at 10. Section II: M. through F., at 11. EXAM GROUP: 3, 12*

Continuation of Modern Hebrew B. Selected readings from 20th-century Hebrew literature prose, poetry, drama, and the language of the current Israeli media, including newspapers, magazines, and satires. The linguistic analysis of the texts is followed by a literary discussion as well as an examination of the individual works in relation to various trends in modern Hebrew culture.

*Note:* Conducted primarily in Hebrew.

*Prerequisite:* Modern Hebrew B or passing of special departmental placement test.

**Modern Hebrew 120b. Intermediate Modern Hebrew II**

Catalog Number: 2563

*Irit Aharony and Anna Grinfeld*

*Half course (spring term). Section I: M. through F., at 10. Section II: M. through F., at 11. EXAM GROUP: 3, 12*

Continuation of Modern Hebrew 120a.

*Note:* Conducted primarily in Hebrew.

*Prerequisite:* Modern Hebrew 120a.

**Modern Hebrew 125a. Advanced Modern Hebrew I**

Catalog Number: 4985

*Anna Grinfeld*



*Half course (fall term). M., W., Th., at 1. EXAM GROUP: 6, 15*

Continuation of Intermediate Modern Hebrew 120a and 120b in preparation for the Modern Hebrew Seminar courses. The course explores oral and textual forms of the language such as journalism, literature, poetry, plays, music, and more. The course will take a broad look at Israeli culture and current events via the media: radio, television, the internet, and the arts. The course goal is to further develop practical skills in the language.

*Prerequisite:* Modern Hebrew 120a, 120b, or equivalent.

### **Modern Hebrew 125b. Advanced Modern Hebrew II**

Catalog Number: 3201

*Miri Kubovy*

*Half course (spring term). Tu., Th., 1–2:30 and a weekly section to be arranged. EXAM GROUP: 15, 16*

Continuation of Modern Hebrew 125a.

*Prerequisite:* Modern Hebrew 120a, 120b, and 125a.

### **Modern Hebrew 130r. Contemporary Israeli Culture: Seminar**

Catalog Number: 8127

*Miri Kubovy*

*Half course (fall term). W., 7–10 pm. EXAM GROUP: 9*

Surveys typical examples of contemporary Israeli culture: novels, short stories, poetry, feminist literature, Holocaust literature, literary and political journals and magazines, theater and films, rock music from the "Top 40," all representing current cultural trends and expressing attitudes toward social and political issues. Includes exposure to the language of the current Israeli media.

*Note:* Discussion, papers, and texts presented in Hebrew.

*Prerequisite:* Modern Hebrew 125a, 125b or equivalent.

### **Modern Hebrew 134r. The Layers of Hebrew in Texts about Jerusalem: Seminar**

Catalog Number: 6949

*Irit Aharony*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

A survey of the layers of the Hebrew language as reflected in texts dealing with Jerusalem, written in different centuries. Students learn the characteristic components of all the periods of the Hebrew language in many kinds of texts. For the modern period, selections are taken from literature, the press, the media, and academic papers. The goal is to facilitate scholarly work and research in Hebrew.

*Note:* Conducted in Hebrew.

*Prerequisite:* Modern Hebrew 125a, 125b, or equivalent.

### **[Modern Hebrew 135r. How to Say "I Love You" in Hebrew: Seminar]**

Catalog Number: 1159

*Irit Aharony*

*Half course (spring term). Hours to be arranged.*

A survey of literary Hebrew texts about love from different periods and origins. This survey includes: Biblical love stories, the concept of love in the Midrash and Agadah through the literature of the Middle Ages, the New Hebrew Literature of the early 20th century, and today's



literature. Differences between ancient Hebrew and Modern Hebrew are examined. The goal of the course is to improve reading, writing, and speaking skills for advanced Modern Hebrew students.

*Note:* Expected to be given in 2006–07. Conducted in Hebrew.

*Prerequisite:* Modern Hebrew 125a, 125b or the equivalent.

### **Modern Hebrew 136r. Hebrew for Academic Reading: Seminar**

Catalog Number: 3383

*Anna Grinfeld*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 4–5:30; Spring: Tu., Th., 1:30–3.*

*EXAM GROUP: Fall: 18; Spring: 15, 16*

Hebrew for academic reading is designed for advanced undergraduate and graduate students with a strong background knowledge of Hebrew, seeking to master reading skills in a range of Hebrew texts in the fields of Jewish studies, Middle Eastern studies, government, literature, religion, and history. Some selections of the reading material will be decided by the individual needs and interests of the students.

*Note:* Conducted in Hebrew.

***Primarily for Graduates***

### **[Classical Hebrew 238r. Advanced Study of Historical Hebrew Grammar]**

Catalog Number: 9997

*Jo Ann Hackett and John Huehnergard*

*Half course (spring term). Hours to be arranged.*

Reading of major sections of the Biblical corpus with emphasis on historical linguistic issues.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Classical Hebrew 130b and either Classical Hebrew 138 or Semitic Philology 140.

## ***Literature and History Courses***

***For Undergraduates and Graduates***

### **Hebrew 150a. Introduction to Rabbinic Literature**

Catalog Number: 7629

*Bernard Septimus*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

Designed to introduce students with a basic reading knowledge of Hebrew to Mishnah, Tosefta, Midrash, and Talmud through a close study of representative texts in the original. Texts are mostly non-legal and in Hebrew (rather than Aramaic). Attention to questions of language, exegetical method, literary, and intellectual history.

*Prerequisite:* Intermediate biblical or modern Hebrew, or permission of instructor.

### **[Hebrew 150b. Introduction to Rabbinic Literature]**

Catalog Number: 7878

*Bernard Septimus*

*Half course (spring term). Hours to be arranged.*





A continuation of Hebrew 150a, although it can be taken independently. The readings are slightly more difficult, and include legal texts and texts that use Aramaic as well as Hebrew.  
*Note:* Expected to be given in 2006–07. No prior knowledge of Aramaic is assumed.  
*Prerequisite:* Hebrew 150a or permission of the instructor.

**[Hebrew 160. The Origins and Development of the Classical Jewish Liturgy]**

Catalog Number: 9703

*Bernard Septimus*

*Half course (fall term). Hours to be arranged.*

An examination of current scholarship and controversy on the origins of the classical liturgy and a consideration of the primary-source evidence. Related topics include: rabbinic liturgy and Second Temple sources, differences between the ancient Palestinian and Babylonian rites, the standard prayers and the origins of liturgical poetry (*piyyut*), the crystallization of the liturgy, and the emergence of local variations in the early Middle Ages.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* A good reading knowledge of Hebrew.

**[Hebrew 165. Maimonides' Book of Knowledge and its Medieval Critics]**

Catalog Number: 9792

*Bernard Septimus*

*Half course (fall term). Hours to be arranged.*

The interplay of law and philosophy in the first book of Maimonides' *Code*. Topics include: language, organization, legal theory, use of sources, theology, curricular ideals, historical thought, ethics, eschatology, the relationship of the *Book of Knowledge* to Maimonides' *Guide of the Perplexed*; repercussions of the *Book of Knowledge* in subsequent works and controversies.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* A good reading knowledge of Hebrew.

**[Hebrew 168. Late Antique and Medieval Hebrew Poetry]**

Catalog Number: 2715

*Bernard Septimus*

*Half course (fall term). Hours to be arranged.*

Close reading of selected classics of late-antique piyyut and of the Spanish "golden age." In addition to literary analysis, focuses on: the relationship of early piyyut to the classical liturgy and to midrashic culture; the social and religious functions of Hispano-Hebrew poetry and its intellectual context.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* A good reading knowledge of Hebrew.

**[Hebrew 171. The Problem of Language in Medieval Jewish Thought]**

Catalog Number: 7205

*Bernard Septimus*

*Half course (spring term). Hours to be arranged.*

The status and significance of language generally and Hebrew, in particular, viewed from a variety of perspectives in texts from several genres (exegetical, linguistic, literary, legal, philosophical and mystical) ranging chronologically from late antiquity through the Renaissance.



*Note:* Expected to be given in 2007–08.

*Prerequisite:* A good reading knowledge of Hebrew.

**[Hebrew 174. Political Thought: Late Antiquity through the Middle Ages]**

Catalog Number: 8693

*Bernard Septimus*

*Half course (spring term). Hours to be arranged.*

Explores the following interrelated topics: the debate over monarchy; divine providence and political rationality; the theological significance of political defeat; the foundations of communal government. Legal exegetical, philosophical, and literary texts treating these topics will be read against their historical backdrop.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* A good reading knowledge of Hebrew.

**[Hebrew 191. From Jewish Literature to Israeli Literature: Seminar]**

Catalog Number: 3376

*Avi Matalon*

*Half course (spring term). Hours to be arranged.*

Examines the development and transition of Hebrew literature from Europe to Israel beginning in the 1850s.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Reading knowledge of Modern Hebrew required.

***Cross-listed Courses***

***Primarily for Graduates***

**[\\*Hebrew 200r. Problems in the Literature, History, and Religion of Israel: Seminar](#)**

Catalog Number: 3265

*Jo Ann Hackett and members of the Department*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Topic for 2005-06: Judges.

*Note:* Primarily for doctoral students in Hebrew Bible. Offered jointly with the Divinity School as 1810.

**[Hebrew 209r. Literature of Israel: Seminar](#)**

Catalog Number: 1326

*Peter Machinist*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Topic for 2005-06: The book of Ecclesiastes/Qohelet. Close exegesis of the Hebrew text with versions and classical commentaries, attending to historical, text-critical, literary, and religious issues.

*Note:* Offered jointly with the Divinity School as 1824.

*Prerequisite:* Good reading knowledge of biblical Hebrew. Acquaintance with other relevant ancient and modern languages desirable.



**Hebrew 211r. Literature of Israel: Seminar**

Catalog Number: 0727 Enrollment: Limited to 10.

*Paul D. Hanson (Divinity School)*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Isaiah 40-66. Close exegetical study utilizing text-, literary-, form-, and redaction-criticism, with attention to location within the history of Israelite religion. Hermeneutical inquiry will raise the question of contemporary meaning.

*Note:* Offered jointly with the Divinity School as 1821.

*Prerequisite:* Advanced reading knowledge of biblical Hebrew.

**[Hebrew 217. The Medieval Torah Commentary: A Practical Introduction: Seminar]**

Catalog Number: 5883

*Jon D. Levenson (Divinity School)*

*Half course (fall term). Hours to be arranged.*

An introduction to the use of medieval Jewish biblical commentaries as a resource for modern exegetes. Some comparison of the medieval hermeneutical presuppositions with those of the distinctively modern forms of biblical study.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1836.

*Prerequisite:* Three years of college-level Hebrew (any period).

**[Hebrew 218. Joseph and Esther: Seminar]**

Catalog Number: 0880

*Jon D. Levenson (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A close critical reading of Genesis 37-50 and the Book of Esther in Hebrew. Emphasis on literary design and religious messages and on the influence of the story of Joseph upon the Book of Esther.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1802.

*Prerequisite:* Three years of Hebrew or the equivalent.

**[Hebrew 231. Genesis 12-25: Seminar]**

Catalog Number: 1109

*Jon D. Levenson (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A close critical reading of Genesis 12-25 in Hebrew. Emphasis on literary design and religious message of this section of the story of Abraham and his family.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1809.

*Prerequisite:* An introductory course in critical biblical studies and three years of Hebrew or the equivalent.

**Hebrew 235. The Binding of Isaac (Aqedah): Seminar**

Catalog Number: 0170

*Jon D. Levenson (Divinity School)*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

An examination of Genesis 22 and its afterlife in ancient Judaism, early Christianity, and the Qur'an. Ample consideration of the interpretation and expansion of the story in modern theology



and of critical responses to it.

*Note:* Offered jointly with the Divinity School as 1808.

*Prerequisite:* Three years of Hebrew or the equivalent.

### **Hebrew 236. The Song of the Sea: Seminar**

Catalog Number: 6496

*Jon D. Levenson (Divinity School)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A close reading of Exodus 14–15 in two contexts, that of the Hebrew Bible (together with its ancient Near Eastern background) and that of rabbinic Judaism. Ample Hebrew readings in rabbinic midrash.

*Note:* Offered jointly with the Divinity School as 1816.

*Prerequisite:* An introductory course in the critical study of the Hebrew Bible and a solid command of Hebrew grammar (any period).

### ***Graduate Courses of Reading and Research***

#### **\*Hebrew 300. Classical Hebrew Language and Literature**

Catalog Number: 7831

*Shaye J.D. Cohen 4180, Jo Ann Hackett 2389, Paul D. Hanson (Divinity School) 1394, John Huehnergard 7697 (on leave 2005-06), Peter Machinist 2812, and Lawrence E. Stager 1468 (on leave spring term)*

#### **\*Hebrew 350. Postbiblical Hebrew Language and Literature**

Catalog Number: 4408

*Shaye J.D. Cohen 4180, Jay M. Harris 2266 (on leave fall term), and Bernard Septimus 7160 (on leave spring term)*

### ***Iranian***

See also above under Near Eastern Civilizations; Early Iranian Civilizations; Islamic Civilizations; and below under Persian.

### ***For Undergraduates and Graduates***

#### **[Iranian A. Old Persian]**

Catalog Number: 5457

*P. Oktor Skjaervo and assistant*

*Full course (indivisible). Hours to be arranged.*

Introduction to Old Persian.

*Note:* Expected to be given in 2006–07.

#### **Iranian B. Introduction to Avestan**

Catalog Number: 3936



*P. Oktor Skjaervo*

*Full course (indivisible). M., W., 3–4:30. EXAM GROUP: 8, 9*

**Iranian 123. Kurmanji Kurdish**

Catalog Number: 6146

*Wheeler M. Thackston, Jr.*

*Half course (fall term). Hours to be arranged.*

**Iranian 123a. Kurmanji Kurdish II**

Catalog Number: 6747

*Wheeler M. Thackston, Jr.*

*Half course (spring term). Hours to be arranged.*

Continuation of Iranian 123.

***Cross-listed Courses***

**Linguistics 221r. Workshop in Indo-European**

***Primarily for Graduates***

**Iranian 201r. Readings in Modern Iranian Dialects**

Catalog Number: 0517

*P. Oktor Skjaervo*

*Half course (fall term; repeated spring term). Hours to be arranged.*

**Iranian 206r. Advanced Middle Persian**

Catalog Number: 6633

*P. Oktor Skjaervo*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced readings in Middle Persian texts (Zoroastrian, Manichean, inscriptions.)

*Prerequisite:* Two years of study of Middle Persian.

***Graduate Courses of Reading and Research***

**\*Iranian 300. Reading and Research in Iranian Languages and Literatures**

Catalog Number: 8155

*P. Oktor Skjaervo 2869 and Wheeler M. Thackston, Jr. 4004*

***Persian***

See also above under Near Eastern Civilizations; Early Iranian Civilizations; Islamic Civilizations; Iranian.

***For Undergraduates and Graduates***



### **Persian A. Elementary Persian**

Catalog Number: 8143

*Wheeler M. Thackston, Jr.*

*Full course. M., W., F., at 10, and two additional hours to be arranged. EXAM GROUP: 3*  
Introduction to the grammar of modern literary and spoken Persian. Selected readings from contemporary and classical Persian literature.

### **Persian 120a. Intermediate Persian I**

Catalog Number: 2206

*Wheeler M. Thackston, Jr.*

*Half course (fall term). M., W., F., at 9, and one additional hour to be arranged. EXAM GROUP: 2*

Readings in modern prose literature. Introduction to classical metrics and prosody. Readings in classical prose and poetry.

### **Persian 120b. Intermediate Persian II**

Catalog Number: 3712

*Wheeler M. Thackston, Jr.*

*Half course (spring term). M., W., F., at 9, and one additional hour to be arranged. EXAM GROUP: 2*

Continuation of Persian 120a.

### **Persian 140ar. Selected Readings in Classical Persian Literature**

Catalog Number: 0814

*Wheeler M. Thackston, Jr.*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Selected topics in Classical Persian literature for the advanced student. Readings from historical and belletristic texts, the classics of Sufism, and the poets of Iran and India.

*Prerequisite:* Persian 120b or equivalent.

### **Persian 140br. Selected Readings in Classical Persian Literature**

Catalog Number: 0258

*Wheeler M. Thackston, Jr.*

*Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8*

A continuation of Persian 140ar.

### **Persian 150r. Readings in Persian Historians, Geographers and Biographers**

Catalog Number: 6538

*Roy Mottahedeh*

*Half course (fall term). F., 2–5. EXAM GROUP: 7, 8, 9*

### ***Graduate Courses of Reading and Research***

#### **\*Persian 300. Persian Language and Literature**

Catalog Number: 6962

*Wheeler M. Thackston, Jr. 4004 and Roy Mottahedeh 1454*



## ***Semitic Philology***

### ***For Undergraduates and Graduates***

#### **[Semitic Philology 140. Introduction to the Comparative Study of Semitic Languages ]**

Catalog Number: 8602

*John Huehnergard*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Knowledge of two Semitic languages.

#### **Semitic Philology 151. Introduction to Northwest Semitic Epigraphy**

Catalog Number: 2858

*Jo Ann Hackett*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

Readings in Hebrew and Phoenician inscriptions with an introduction to methods and techniques of Northwest Semitic palaeography, and attention to problems of historical grammar.

*Prerequisite:* Classical Hebrew 138 or Semitic Philology 140.

#### **[Semitic Philology 152. Introduction to Ugaritic]**

Catalog Number: 2777

*Jo Ann Hackett*

*Half course (fall term). Hours to be arranged.*

Introduction to Ugaritic grammar, with readings in mythological, epistolary, and administrative texts.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Semitic Philology 140 or equivalent.

### ***Primarily for Graduates***

#### **[Semitic Philology 200r. Comparative Semitic Grammar: Seminar]**

Catalog Number: 0168

*John Huehnergard*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Classical Hebrew 138 or Semitic Philology 140 or equivalent.

#### **Semitic Philology 220r. Northwest Semitic Epigraphy: Seminar**

Catalog Number: 2948

*Jo Ann Hackett*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Topic for 2005-06: To be announced.

*Prerequisite:* Semitic Philology 152.

#### **[Semitic Philology 230. The Early History of Northwest Semitic]**

Catalog Number: 3959





*John Huehnergard*

*Half course (spring term). Hours to be arranged.*

Readings in the Canaanizing Akkadian tablets from el-Amarna; review of so-called “Amorite” sources, as well as early alphabetic, Egyptian, and other evidence for Northwest Semitic in the second millennium BCE.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Akkadian A and Classical Hebrew 138 or Semitic Philology 151.

### ***Graduate Courses of Reading and Research***

#### **\*Semitic Philology 300. Semitic and Afroasiatic Languages and Literatures**

Catalog Number: 2762

*Jo Ann Hackett 2389, Wolfhart P. Heinrichs 4988 (on leave spring term), and John Huehnergard 7697 (on leave 2005-06)*

### ***Turkish***

See also above under Near Eastern Civilizations; Islamic Civilizations.

### ***For Undergraduates and Graduates***

#### **Turkish A. Elementary Modern Turkish**

Catalog Number: 2527

*Hakan T. Karateke*

*Full course (indivisible). M. through F., at 9. EXAM GROUP: 2, 11*

Emphasis on all aspects of Turkish grammar toward developing a solid foundation for speaking, listening, reading, writing, and vocabulary skills.

*Note:* Not open to auditors.

#### **Turkish 120a. Intermediate Turkish I**

Catalog Number: 4009

*Hakan T. Karateke*

*Half course (fall term). M., Tu., Th., F., at 10;. EXAM GROUP: 3, 12*

Emphasis on complex sentence structure and building communicative competence in describing events and expressing ideas through exercises in reading, writing, and speaking.

*Note:* Not open to auditors.

*Prerequisite:* Turkish A or equivalent.

#### **Turkish 120b. Intermediate Turkish II**

Catalog Number: 1394

*Hakan T. Karateke*

*Half course (spring term). M., Tu., Th., F., at 10. EXAM GROUP: 3, 12*

Studies in argumentative and literary prose.

*Note:* Not open to auditors.

*Prerequisite:* Turkish 120a or equivalent.



**Turkish 121a. Elementary Uzbek I**

Catalog Number: 3006

*Wheeler M. Thackston, Jr. and assistant*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Introduction to conversational and literary Uzbek. Overview of the grammar, intensive practice of the spoken language, and reading of contemporary texts.

*Note:* Some knowledge of Modern Turkish or other Turkic language helpful but not required.

**Turkish 121b. Elementary Uzbek II**

Catalog Number: 7303

*Wheeler M. Thackston, Jr. and assistant*

*Half course (spring term). M., W., F., at 8. EXAM GROUP: 1*

Continuation of Turkish 121a.

*Note:* Some knowledge of Modern Turkish or other Turkic language helpful but not required.

**Turkish 125a. Intermediate Uzbek I**

Catalog Number: 2947

*Wheeler M. Thackston, Jr. and assistant*

*Half course (fall term). Hours to be arranged.*

Continuation of Elementary Uzbek with an emphasis on further development of both conversational and literary Uzbek.

*Prerequisite:* Turkish 121b or equivalent.

**[Turkish 125b. Intermediate Uzbek II]**

Catalog Number: 0125

*Wheeler M. Thackston, Jr. and assistant*

*Half course (spring term). Hours to be arranged.*

A continuation of Turkish 125a.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Turkish 125a or equivalent.

**[Turkish 130a. Advanced Turkish I]**

Catalog Number: 6964

*Hakan T. Karateke*

*Half course (fall term). Hours to be arranged.*

Gaining and improving advanced language skills in Modern Turkish through reading, writing, listening, and speaking with special emphasis on the proper usage of vocabulary and idiomatic expressions.

*Note:* Expected to be given in 2006–07. Not open to auditors.

*Prerequisite:* Turkish 120b or equivalent.

**[Turkish 130b. Advanced Turkish II]**

Catalog Number: 4354

*Hakan T. Karateke*

*Half course (spring term). Hours to be arranged.*

Studies in literary and idiomatic prose through readings, discussions, and writing of short



analytical papers.

*Note:* Expected to be given in 2006–07. Not open to auditors.

*Prerequisite:* Turkish 130a or equivalent.

**[Turkish 135. Readings in Modern Turkish Academic Prose]**

Catalog Number: 4391

*Hakan T. Karateke*

*Half course (fall term). Hours to be arranged.*

In this course the students will learn the complex idiom of modern Turkish academic language. Texts will be selected from various disciplines according to the needs of the students but with emphasis on works written after the 1950s.

*Note:* Expected to be given in 2006–07. Not open to auditors. Conducted in Turkish.

*Prerequisite:* Turkish 130b or the equivalent.

**Turkish 140a. Introduction to Ottoman Turkish I**

Catalog Number: 8163

*Hakan T. Karateke*

*Half course (fall term; repeated spring term). Fall: Tu., 2–4, F., at 1; Spring: Tu., at 12, F., 1–3.*

*EXAM GROUP: Fall: 6, 16, 17; Spring: 6, 7, 14*

Introduction to basic orthographic conventions and grammatical characteristics of Ottoman Turkish through readings in printed selections from the 19th and 20th centuries, and exercises on techniques.

*Prerequisite:* Turkish A or equivalent; one year of Arabic or Persian desirable.

**[Turkish 140b. Introduction to Ottoman Turkish II]**

Catalog Number: 8298

*Hakan T. Karateke*

*Half course (spring term). Hours to be arranged.*

Continuation of Turkish 140a.

*Note:* Expected to be given in 2006–07.

**[Turkish 141. Ottoman Biographical Dictionaries]**

Catalog Number: 3234

*Hakan T. Karateke*

*Half course (spring term). Hours to be arranged.*

This seminar investigates the rich tradition of Ottoman biographical dictionaries from the beginning to the end of 19th century. Biographical dictionaries listing scholars, masters of religious orders, poets, and others will be read from primary sources and explored.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Knowledge of Ottoman Turkish.

**Turkish 147a. Advanced Uzbek I**

Catalog Number: 3846

*Wheeler M. Thackston, Jr. and assistant*

*Half course (fall term). Hours to be arranged.*



A continuation of Intermediate Uzbek.  
*Prerequisite:* Turkish 125b or equivalent.

**Turkish 147b. Advanced Uzbek II**

Catalog Number: 4820  
*Wheeler M. Thackston, Jr. and assistant*  
*Half course (spring term). Hours to be arranged.*  
Continuation of Turkish 147a.  
*Prerequisite:* Turkish 147a or equivalent.

**Turkish 155. Early Republican Turkish Short Story**

Catalog Number: 8424  
*Hakan T. Karateke*  
*Half course (spring term). M., 2–5. EXAM GROUP: 7, 8, 9*  
This course investigates the literary production of the stirring early years of the Turkish Republic (1923–1950). Short novels by authors such as Halide Edib, Yakup Kadri, Peyami Safa, Resat Nuri, Refik Halit, Hüseyin Rahmi, Osman Cemal, Nahit Sirri, Necip Fazil, Sabahattin Ali, and Sait Faik will be read in the original and discussed.

***Graduate Courses of Reading and Research***

**\*Turkish 300. Turkish Languages and Literatures**

Catalog Number: 7702  
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***Yiddish***

See also above under Near Eastern Civilizations: Jewish Studies.

***For Undergraduates and Graduates***

**Yiddish A. Elementary Yiddish**

Catalog Number: 4623  
*Beatrice Caplan*  
*Full course (indivisible). Fall: M., W., F., at 10; Spring: M., W., F., at 11. EXAM GROUP: Fall: 3; Spring: 4*  
Introduction to the Yiddish language, and to the culture of Ashkenazic Jewry, including story, song, and film of Europe, the Americas, and Israel.  
*Note:* For students with little or no knowledge of Yiddish.

**Yiddish Ba. Intermediate Yiddish I**

Catalog Number: 6023  
*Beatrice Caplan*  
*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*  
Further develops the four basic communication skills. Includes selected readings from modern



Yiddish literature.

*Prerequisite:* Yiddish A or equivalent.

**Yiddish Bb. Intermediate Yiddish II**

Catalog Number: 1239

*Beatrice Caplan*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Continuation of Yiddish Ba.

**Yiddish Ca. Advanced Yiddish I**

Catalog Number: 8331

*Beatrice Caplan*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

**[Yiddish Cb. Advanced Yiddish II]**

Catalog Number: 8968

*Beatrice Caplan*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Yiddish Ca or equivalent.

**[Yiddish 102r. Modern Yiddish Literature I: The Yiddish Short Story]**

Catalog Number: 4013

*Ruth R. Wisse*

*Half course (fall term). Hours to be arranged.*

Topic for 2006-07: To be announced.

*Note:* Expected to be given in 2006–07.

**[Yiddish 103r. Modern Yiddish Literature II]**

Catalog Number: 8269

*Ruth R. Wisse*

*Half course (spring term). Hours to be arranged.*

Topic for 2006-07: To be announced.

*Note:* Expected to be given in 2006–07. All works available in English translation. Extra sessions for those who can read Yiddish texts.

**[Yiddish 105. Yiddish Language and Linguistic Theory]**

Catalog Number: 7146

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*Half course (spring term). Hours to be arranged.*

Yiddish, spoken among Ashkenazic Jews for the past millennium, belongs to the Germanic language family, although its contacts with Slavic and Semitic (Hebrew, Aramaic) have made lasting impressions. Facts of Yiddish phonology, morphology, syntax, and the syntax-semantics-pragmatics interface pose interesting problems for linguistic theory. We look at a wide range of Yiddish data and read and discuss some of the more recent analytical attempts to understand



these phenomena.

*Note:* Expected to be given in 2006–07.

### **Yiddish 108. The Yiddish Poem Itself**

Catalog Number: 6058

*Ruth R. Wisse*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

Yiddish generated a rich body of modern and modernist poetry in Poland, Russia, America, and Israel. Close readings of major poets will focus on questions of translation, sentiment and sentimentality, men's and women's voices, violence in art, humor, argot and purism. During and after the Shoah, this young poetic tradition confronted its own demise.

*Note:* Course assumes no knowledge of Yiddish. There will be an extra section for Yiddish readers.

### **Yiddish 109. The Yiddish Novel Under Tsars and Stripes**

Catalog Number: 6009

*Ruth R. Wisse*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Studies the emergence of the Yiddish novel as a major literary form in Russia, Poland, and the US. Begins with the pioneer of modern Yiddish and Hebrew prose, Mendele Mocher Sforim, includes Sholem Aleichem, Sholem Asch, David Bergelson, Der Nister, and the family Singer: Israel Joshua, Isaac Bashevis, and Esther Kreitman. Highly compressed development of the genre reflects great artistic, ideological, and thematic variety.

*Note:* All works available in English translation. There will be an extra section for Yiddish readers.

### **[Yiddish 110. Studies in Yiddish Drama]**

Catalog Number: 7626

*Ruth R. Wisse*

*Half course (spring term). Hours to be arranged.*

Explores the role of Yiddish theater in Jewish and American society and culture. Features major plays from the repertoire, including *The Dybbuk* and *The Golem*; memoirs of leading actors and playwrights; modernist and radical experimentation, competing national, commercial, ideological, and artistic goals. Selected Yiddish films of the 1930s.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of Yiddish.

### ***Primarily for Graduates***

### **[Yiddish 200r. Modern Yiddish Literature: Seminar]**

Catalog Number: 4263

*Ruth R. Wisse*

*Half course (fall term). Hours to be arranged.*

Topic for 2006-07: To be announced.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of Yiddish required.



**[Yiddish 202r. Yiddish Literature: Seminar]**

Catalog Number: 3854

*Ruth R. Wisse*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Reading knowledge of Yiddish.

***Graduate Courses of Reading and Research***

**\*Yiddish 300. Yiddish Language and Literature**

Catalog Number: 7833

*Ruth R. Wisse 3177*

## Oceanography

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on Oceanography***

Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics  
(*Chair*)

James J. McCarthy, Professor of Biological Oceanography

Daniel P. Schrag, Professor of Earth and Planetary Sciences

Courses in the various branches of oceanography are listed separately under the headings Biology, Engineering Sciences and Applied Physics, and Earth and Planetary Sciences in this catalog. Further information on related courses and on other opportunities for study in oceanography at the University, at the Woods Hole Oceanographic Institution, and at the Marine Biological Laboratory may be obtained from the Official Register “Instruction in Oceanography,” or from members of the Faculty Committee on Oceanography.

## Philosophy

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION





### ***Faculty of the Department of Philosophy***

Richard Moran, Brian D. Young Professor of Philosophy (*Chair*)  
Matthew Boyle, Assistant Professor of Philosophy  
Peter Godfrey-Smith, Professor of Philosophy  
Warren Goldfarb, Walter Beverly Pearson Professor of Modern Mathematics and Mathematical Logic (*Head Tutor*)  
Edward J. Hall, Professor of Philosophy  
Frances Kamm, Professor of Philosophy (*FAS*) and Littauer Professor of Philosophy and Public Policy (*Kennedy School*)  
Peter Koellner, Assistant Professor of Philosophy (*on leave 2005-06*)  
Christine M. Korsgaard, Arthur Kingsley Porter Professor of Philosophy (*Director of Graduate Studies*)  
Douglas Lavin, Assistant Professor of Philosophy  
Jeffrey K. McDonough, Assistant Professor of Philosophy  
Derek Parfit, Visiting Professor of Philosophy (*All Souls College, Oxford*) (*spring term only*)  
Thomas M. Scanlon, Jr., Alford Professor of Natural Religion, Moral Philosophy, and Civil Policy  
Amartya Sen, Lamont University Professor  
Susanna Siegel, John L. Loeb Associate Professor of the Humanities, Professor of Philosophy  
Alison Simmons, Professor of Philosophy  
Gisela Striker, Walter C. Klein Professor of Philosophy and of the Classics (*on leave 2005-06*)  
Daniel L. Sutherland, Visiting Associate Professor of Philosophy (*University of Illinois, Chicago*) (*spring term only*)  
Charles Travis, Visiting Professor of Philosophy (*King's College London*) (*fall term only*)  
Philippe van Parijs, Visiting Professor of Philosophy (*Université catholique de Louvain*) (*spring term only*)  
Raphael G. Woolf, Associate Professor of Philosophy (*on leave fall term*)

### ***Other Faculty Offering Instruction in Philosophy***

Catherine Z. Elgin, Professor of Education (*School of Education*)  
Mathias Risse, Associate Professor of Public Policy and Philosophy (*Kennedy School*)  
Mark Schiefsky, Associate Professor of the Classics

### ***Primarily for Undergraduates***

#### **Philosophy 3. Introduction to the Problems of Philosophy**

Catalog Number: 1996

Matthew Boyle

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Introduction to the methods of philosophical thinking, focusing on three perennial sources of philosophical puzzlement: the relation between mind and body (What do I refer to when I say "I"? Could I exist without a body?); the possibility of free will (What is required for our choices to be free?); and the nature of time and change (What is time? What is it for something to undergo change while still remaining the very same thing?)



**[Philosophy 7. Introduction to Ancient Philosophy ]**

Catalog Number: 1583

*Mark Schiefsky*

*Half course (fall term). Hours to be arranged.*

A survey of some main themes and figures of ancient philosophical thought, concentrating on the Pre-Socratics, Plato, and Aristotle. Topics include the nature of reality, the ways we might come to have knowledge, and the good life for human beings. Special attention to the relationship of philosophy and science.

*Note:* Expected to be given in 2006–07.

**Philosophy 8. Introduction to the History of Early Modern Philosophy**

Catalog Number: 8947

*Alison Simmons*

*Half course (spring term). M., W., (F.), at 10 and a weekly section to be arranged. EXAM GROUP: 3*

A survey of 17th- and 18th-century philosophy with a focus on the major metaphysical and epistemological writings of Descartes, Locke, Hume, and Kant. Topics include the natures of mind and body, the physical world, freedom, and human knowledge. Special attention to the rise of mechanistic science (i.e. the “Scientific Revolution”).

**Philosophy 12. Introduction to the Philosophy of Law**

Catalog Number: 1951

*Douglas Lavin*

*Half course (spring term). Tu., Th., at 12;. EXAM GROUP: 14*

Crime, punishment and responsibility: some questions concerning the criminal law. (i) How, if at all, can criminal punishment be justified? (ii) By what principles or criteria should the criminal law hold people responsible? (iii) What sorts of conduct may the state rightly make criminal?

**\*Philosophy 97hf. Tutorial — Sophomore Year**

Catalog Number: 1669

*Warren Goldfarb*

*Half course (throughout the year). Hours to be arranged.*

*Note:* Required of all sophomore concentrators.

**\*Philosophy 98hf. Tutorial — Junior Year**

Catalog Number: 5533

*Warren Goldfarb*

*Half course (throughout the year). Hours to be arranged. EXAM GROUP: Fall: 8, 9*

*Note:* Required of all junior concentrators.

**\*Philosophy 99. Tutorial — Senior Year**

Catalog Number: 4396

*Warren Goldfarb and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

***Cross-listed Courses***



[Moral Reasoning 33. Issues in Ethics](#)

[Moral Reasoning 56. Self, Freedom, and Existence](#)

[Moral Reasoning 66. Moral Reasoning about Social Protest](#)

[Quantitative Reasoning 22. Deductive Logic](#)

***For Undergraduates and Graduates***

**[Philosophy 101. Plato]**

Catalog Number: 5374

*Raphael G. Woolf*

*Half course (spring term). Hours to be arranged.*

A critical examination of some central themes in Plato's philosophy, concentrating on the early and middle dialogues, with some consideration of later developments. Topics include the search for definitions, the theory of Forms, the nature of the soul, and the good life.

*Note:* Expected to be given in 2006–07.

**[Philosophy 102. Aristotle](#)**

Catalog Number: 8100

*Raphael G. Woolf*

*Half course (spring term). Tu., Th., at 11; . EXAM GROUP: 13*

A critical survey of some of the key areas of Aristotle's thought, examining a selection of his views on nature, substance, change, soul and mind, and the good life.

**[Philosophy 117. Medieval Philosophy](#)**

Catalog Number: 3897

*Jeffrey K. McDonough*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

A study of some central topics in the works of Augustine, Aquinas, and Ockham, with primary emphasis on their contributions to metaphysics and epistemology.

**[Philosophy 120. The Rationalists](#)**

Catalog Number: 2512

*Jeffrey K. McDonough*

*Half course (fall term). Tu., Th., at 11;. EXAM GROUP: 13*

A study of some central topics in the works of Descartes, Spinoza and Leibniz, with primary emphasis on their contributions to metaphysics and epistemology.

**[Philosophy 122. British Empiricism]**

Catalog Number: 9025

*Alison Simmons*

*Half course (fall term). Hours to be arranged.*

A study of the central works of Locke, Berkeley, and Hume with primary emphasis on their contributions to metaphysics and epistemology.

*Note:* Expected to be given in 2006–07.



**Philosophy 129. Kant's Critique of Pure Reason**

Catalog Number: 0614

*Daniel L. Sutherland (University of Illinois, Chicago)*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Aims at a general understanding of the first *Critique*. An examination of the work's central metaphysical and epistemological doctrines, with attention to its historical context.

**Philosophy 133. Marx, Nietzsche, and Freud**

Catalog Number: 1292

*Mathias Risse (Kennedy School)*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

It is hard to overestimate the extent to which Marx (a political economist), Nietzsche (the self-styled immoralist), and Freud (the father of psychoanalysis) have shaped political and intellectual life of the last one-hundred years or so. This course examines the methodological commitments these figures share and explores why they have come increasingly to be discussed collectively as constituting the "school of suspicion."

**Philosophy 137. The Later Philosophy of Wittgenstein**

Catalog Number: 3360

*Warren Goldfarb*

*Half course (fall term). M., W., (F.), at 2. EXAM GROUP: 7*

A close reading of Ludwig Wittgenstein's *Philosophical Investigations*, focusing on its treatments of the topics of meaning, reference, rule-following, cognition, perception, "the private mental realm" knowledge, scepticism, and the nature of philosophy. Attention to Wittgenstein's philosophical methodology, with its claim to dissolve philosophical problems rather than propose solutions to them.

*Prerequisite:* Two half courses in Philosophy.

**Philosophy 144. Logic and Philosophy**

Catalog Number: 1111

*Warren Goldfarb*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

Three philosophically important results of modern logic: Gödel's incompleteness theorems; Turing's definition of mechanical computability; Tarski's theory of truth for formalized languages. Discusses both mathematical content and philosophical significance of these results.  
*Prerequisite:* Some knowledge of deductive logic.

**Philosophy 147. Philosophy of Language**

Catalog Number: 8887

*Charles Travis (King's College London)*

*Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6*

This course will address the following questions. What is (linguistic) meaning? How might it be studied? How does it relate to truth, to what is said in using words, and to necessity? What is singular thought? How might it be expressed in language? Principal philosophers to be discussed will be Davidson, Austin, Putnam, Feyerabend, Burge, and McDowell.



**[Philosophy 149z. Philosophy of Science]**

Catalog Number: 4473

*Peter Godfrey-Smith*

*Half course (spring term). Hours to be arranged.*

Survey of 20th century views on the nature of scientific knowledge. Topics include: logical empiricism, Popper and “falsifiability,” induction and confirmation and their paradoxes, models of explanation, scientific realism, Kuhn, Lakatos, Feyerabend, and the relations between philosophy, history, and sociology of science.

*Note:* Expected to be given in 2006–07.

**Philosophy 151z. Philosophy of Physics**

Catalog Number: 5465

*Edward J. Hall*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Quantum mechanics has prompted claims that the universe frequently splits into many copies of itself, that conscious minds can make physical systems “jump” in unpredictable ways, that there is no observer-independent reality, and more. We examine such alleged implications of quantum mechanics, along with problems that continue to trouble its conceptual foundations, notably the “measurement problem”. Special attention to philosophical questions about science generally that quantum mechanics raises in new and interesting ways.

**Philosophy 156. Philosophy of Mind**

Catalog Number: 3410

*Peter Godfrey-Smith*

*Half course (spring term). M., W., (F.), at 1 and a weekly section to be arranged. EXAM GROUP: 6*

The mind-body problem and proposed solutions to it, including dualism, behaviorism, identity theories, functionalism, and eliminativism. Theories of consciousness, subjective experience, and the mind’s representation of the world. Consideration of how recent work in psychology relates to the philosophical debates. Readings by Descartes, Ryle, Smart, Armstrong, Lewis, Putnam, Fodor, Dennett, Lycan, Dretske, and others.

**\*Philosophy 158w. Philosophy of Perception: Proseminar**

Catalog Number: 6653

*Alison Simmons*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

We will explore “embodied perception”, in particular the role of bodily awareness in perception. Is bodily awareness different from other forms of perception? Does the perception of objects require bodily awareness? What is the relation between perception and action?

*Note:* Qualifies as an MBB junior seminar.

*Prerequisite:* Philosophy 156

**Philosophy 159. Epistemology**

Catalog Number: 5443

*Catherine Z. Elgin (School of Education)*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*



What is required in order to know? Does the answer vary with subject matter? E.g., are the requirements for historical knowledge different from those for scientific knowledge? Does the answer depend on context? Are the standards for knowledge in the lab different from those for knowledge in the street or in the philosophy seminar? The course examines the question of the interplay between knowledge claims and context, with readings from classical sources and recent literature.

### **Philosophy 163. Rationality and Irrationality**

Catalog Number: 4435

*Matthew Boyle*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

What kind of power is rationality; in what respects does it set humans apart from nonrational creatures? To what extent, if any, is a special form of understanding brought to bear in making sense of rational creatures? Though human beings are capable of rationality, clearly we are often actually irrational: we do what we judge not to be worth doing and believe what we know to be unjustified. How are such phenomena to be understood?

### **Philosophy 164. Metaphysics**

Catalog Number: 1480

*Edward J. Hall*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

Examination of several topics central to contemporary metaphysics: the nature and existence of properties; identity over time; material constitution; possibility and necessity; laws of nature. The course will close with challenges to the idea that legitimate metaphysical inquiry is possible.

### **Philosophy 168. Kant's Ethical Theory**

Catalog Number: 8361

*Christine M. Korsgaard*

*Half course (spring term). M., W., (F.), at 12; . EXAM GROUP: 5*

A study of Kant's moral philosophy, based primarily on the *Groundwork of Metaphysics of Morals*, the *Critique of Practical Reason*, and *The Metaphysics of Morals*.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

*Note:* Professor Korsgaard will not be offering this course again until 2009-2010.

### **Philosophy 171w. Political Philosophy**

Catalog Number: 0945

*Philippe van Parijs (Université catholique de Louvain)*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

What is a just society? What is a just world? Do they need to be democratic? If so, in what sense and why? The course will provide a critical discussion of the main contemporary answers to these questions and will explore their practical implications through debates on controversial issues prepared by teams of students.

### **Philosophy 172. The History of Modern Moral Philosophy**

Catalog Number: 5184



*Christine M. Korsgaard*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

A study of the development of modern moral philosophy from its origins in the natural law theories of Hobbes and Pufendorf to the emergence of the two most influential theories of the modern period, utilitarianism and Kantianism, in the works of Bentham and Kant. Selections from the works of Hobbes, Clarke, Butler, Hutcheson, Hume, Smith, Price, and others.

**Philosophy 174. Recent Ethical Theory**

Catalog Number: 3266

*Douglas Lavin*

*Half course (fall term). Tu., Th., at 1 and a weekly section to be arranged. EXAM GROUP: 15*

Some of the major trends in contemporary ethical theory, concentrating on questions about the nature of and relation between justice, happiness, and practical rationality. Is it rational to be just? Must one be just to be happy? Readings from Foot, Gauthier, Korgaard, and others.

**\*Philosophy 176. Topics in Bioethics: Proseminar**

Catalog Number: 5571

*Frances Kamm (Kennedy School)*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Issues in bioethics and aspects of normative ethical theory bearing on them. Topics to be selected from the following: aggregation and the distribution of scarce resources, discrimination and disability, death and assisted suicide, abortion, the moral status of the embryo, genetic modification and enhancement. Readings from contemporary philosophical sources.

*Note:* Offered jointly with the Kennedy School as API-604.

*Prerequisite:* At least one course in Ethics.

**Philosophy 178. Equality and Democracy**

Catalog Number: 7653

*Thomas M. Scanlon, Jr.*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Contemporary theories and debates concerning economic and social equality and the kinds of equality involved in, or required by, democratic institutions.

***Cross-listed Courses***

**Greek 110r. Plato's Republic**

**History of Science 106. History of Ancient Science**

**Latin 107. Lucretius' De Rerum Natura**

**Mathematics 141. Introduction to Mathematical Logic**

**Mathematics 143. Set Theory**

**[Religion 1511. Hegel]**

***Primarily for Graduates***

**\*Philosophy 202. Plato's Theaetetus: Seminar**

Catalog Number: 6382





*Raphael G. Woolf*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

A close reading of Plato's most elaborate discussion of the nature of knowledge and other related themes: perception, belief, and the relation of mind to world.

**\*Philosophy 224. Causation in Early Modern Philosophy: Seminar**

Catalog Number: 7353

*Alison Simmons*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Investigates theories of causation from among the following: Descartes, La Forge, Regis, Cordemoy, Malebranche, Leibniz, Berkeley, and Hume.

**\*Philosophy 227. Kant's Philosophy of Mathematics: Seminar**

Catalog Number: 9070

*Daniel L. Sutherland (University of Illinois, Chicago)*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

**\*Philosophy 251z. Topics in Epistemology: Seminar**

Catalog Number: 2754

*Catherine Z. Elgin (School of Education)*

*Half course (fall term). W., 3–5. EXAM GROUP: 8*

Beyond Literal Truth: A study of the ways models, metaphor, idealizations and thought experiments figure in the advancement of understanding.

*Note:* Offered jointly with the Graduate School of Education as S-171.

**\*Philosophy 252z. Evolution and Cognition: Seminar**

Catalog Number: 5862

*Peter Godfrey-Smith*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A survey of recent work on the relation between evolution and cognition. Topics will probably include: innateness, cultural transmission, evolution of language.

**\*Philosophy 257. Philosophy of Psychology: Seminar**

Catalog Number: 7335

*Charles Travis (King's College London)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A critical study of the language-of-thought hypothesis, or, more generally, the representational theory of mind: its motivations and its underlying picture of attitudes towards the way things are.

**\*Philosophy 264. Metaphysics: Seminar**

Catalog Number: 7345

*Edward J. Hall*

*Half course (spring term). F., 10:30–12:30. EXAM GROUP: 3, 4, 5*

In-depth examination of philosophical accounts of causation (Hume, Davidson, Mackie, Lewis, others) with auxiliary discussion of events, counterfactuals, probability, and laws of nature.



**\*Philosophy 270. Practical Reason and Ethics: Seminar**

Catalog Number: 8587

*Derek Parfit (All Souls College, Oxford) and Thomas M. Scanlon, Jr.*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Issues concerning rationality, morality and the relations between them, including: normativity, reasons and rationality, Kant's ethics, contractualism, and consequentialism.

**\*Philosophy 279. Justice and Institutions: Seminar**

Catalog Number: 3804

*Amartya Sen and Philippe van Parijs (Université catholique de Louvain)*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

From household to global level, the pursuit of justice requires institutional innovation. We shall explore some promising ideas for such innovation and discuss the role of empirical analysis and ethical principle in assessing their promise.

*Note:* Meets at MIT.

**\*Philosophy 299hf. Individual Supervision**

Catalog Number: 8076

*Christine M. Korsgaard and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

*Note:* Required of candidates for the AM or PhD in Philosophy. Consult the Department's *Supplement to the General Announcement* for details.

***Cross-listed Courses***

**\*History of Science 206r. Ancient Science: Seminar**

**\*History of Science 207r. Medieval Science: Seminar**

**History of Science 297r. Topics in the History of Medieval Latin Science**

***Graduate Courses of Reading and Research***

**\*Philosophy 300a. Colloquium**

Catalog Number: 5615

*Richard Moran 1786*

*Half course (fall term). Hours to be arranged.*

An intensive study—in small, informal seminars—of selected problems in contemporary philosophy.

*Note:* Limited to first-year graduate students in the Department.

**\*Philosophy 300b. Colloquium**

Catalog Number: 6280

*Christine M. Korsgaard 2994*

*Half course (spring term). Hours to be arranged.*

Continuation of Philosophy 300a.



**\*Philosophy 303. Colloquium: Dissertation Presentations**

Catalog Number: 1089

*Alison Simmons 1300*

*Half course (fall term; repeated spring term). Hours to be arranged.*

**\*Philosophy 305. Individual Reading and Research**

Catalog Number: 4462

*Matthew Boyle 5279, Peter Godfrey-Smith 3338, Warren Goldfarb 4499, Edward J. Hall 5324, Frances Kamm (Kennedy School) 4280, Peter Koellner 4680 (on leave 2005-06), Christine M. Korsgaard 2994, Douglas Lavin 5091, Jeffrey K. McDonough 5280, Richard Moran 1786, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705, Susanna Siegel 2441, Alison Simmons 1300, Gisela Striker 2271 (on leave 2005-06), Daniel L. Sutherland (University of Illinois, Chicago) 5281 (spring term only), Charles Travis (King's College London) 5282 (fall term only), Raphael G. Woolf 2488 (on leave fall term), and Philippe van Parijs (Université catholique de Louvain) 5062 (spring term only)*

*Half course (fall term; repeated spring term). Hours to be arranged.*

**\*Philosophy 310. Research Seminars**

Catalog Number: 4465

*Matthew Boyle 5279, Peter Godfrey-Smith 3338, Warren Goldfarb 4499, Edward J. Hall 5324, Frances Kamm (Kennedy School) 4280, Peter Koellner 4680 (on leave 2005-06), Christine M. Korsgaard 2994, Douglas Lavin 5091, Jeffrey K. McDonough 5280, Richard Moran 1786, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705, Susanna Siegel 2441, Alison Simmons 1300, Gisela Striker 2271 (on leave 2005-06), Daniel L. Sutherland (University of Illinois, Chicago) 5281 (spring term only), Charles Travis (King's College London) 5282 (fall term only), Raphael G. Woolf 2488 (on leave fall term), and Philippe van Parijs (Université catholique de Louvain) 5062 (spring term only)*

Small seminars on specialized topics, arranged by members of the Department in consultation with suitably prepared graduate students. Seminars will be listed individually with numbers from 311 through 398.

**\*Philosophy 311. Workshop in Moral and Political Philosophy**

Catalog Number: 5370

*Douglas Lavin 5091 and Thomas M. Scanlon, Jr. 7986*

*Half course (fall term; repeated spring term). M., 4–6.*

A forum for the presentation and discussion of work in progress by students in moral and political philosophy. Open only to graduate students in the Philosophy Department or by invitation of the instructors.

**\*Philosophy 312. Workshop in Metaphysics and Epistemology**

Catalog Number: 0576

*Edward J. Hall 5324 and Susanna Siegel 2441*

*Half course (fall term; repeated spring term). Fall: M., 4–6; Spring: Th., 9:30–11:30.*

A forum for the presentation and discussion of work in progress by students in metaphysics and epistemology.



*Note:* Limited to graduate students in the Philosophy Department or by invitation of the instructors.

**\*Philosophy 333. Preparation for the Topical Examination**

Catalog Number: 1967

*Matthew Boyle 5279, Peter Godfrey-Smith 3338, Warren Goldfarb 4499, Edward J. Hall 5324, Frances Kamm (Kennedy School) 4280, Peter Koellner 4680 (on leave 2005-06), Christine M. Korsgaard 2994, Douglas Lavin 5091, Jeffrey K. McDonough 5280, Richard Moran 1786, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705, Susanna Siegel 2441, Alison Simmons 1300, Gisela Striker 2271 (on leave 2005-06), and Raphael G. Woolf 2488 (on leave fall term)*  
Required in both fall and spring terms of all third-year graduate students in the Department.

**\*Philosophy 399. Direction of Doctoral Dissertations**

Catalog Number: 3283

*Matthew Boyle 5279, Peter Godfrey-Smith 3338, Warren Goldfarb 4499, Edward J. Hall 5324, Frances Kamm (Kennedy School) 4280, Peter Koellner 4680 (on leave 2005-06), Christine M. Korsgaard 2994, Douglas Lavin 5091, Jeffrey K. McDonough 5280, Richard Moran 1786, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705, Susanna Siegel 2441, Alison Simmons 1300, Gisela Striker 2271 (on leave 2005-06), and Raphael G. Woolf 2488 (on leave fall term)*

## Physics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Physics***

John Huth, Donner Professor of Science (*Chair*)  
Nima Arkani-Hamed, Professor of Physics  
Howard C. Berg, Herchel Smith Professor of Physics and Professor of Molecular and Cellular Biology, Tutor in Biochemical Sciences (*on leave fall term*)  
George Brandenburg, Senior Research Fellow in Physics  
Eugene A. Demler, Professor of Physics  
John M. Doyle, Professor of Physics (*on leave 2005-06*)  
Gary J. Feldman, Frank B. Baird, Jr. Professor of Science  
Daniel S. Fisher, Professor of Physics and Professor of Applied Physics  
Andrew Foland, Assistant Professor of Physics  
Melissa Franklin, Mallinckrodt Professor of Physics (*Director of Graduate Studies, spring term*)  
Gerald Gabrielse, George Vasmer Leverett Professor of Physics  
Peter L. Galison, Harvard College Professor and Mallinckrodt Professor of the History of Science and of Physics (*on leave 2005-06*)



Howard Georgi, Harvard College Professor and Mallinckrodt Professor of Physics (*Director of Undergraduate Studies*)  
 Roy J. Glauber, Mallinckrodt Professor of Physics  
 Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
 Markus Greiner, Assistant Professor of Physics  
 Bertrand I. Halperin, Hollis Professor of Mathematicks and Natural Philosophy  
 Lene V. Hau, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave fall term*)  
 Thomas C. Hayes, Lecturer on Physics  
 Eric J. Heller, Professor of Chemistry and Physics  
 Jennifer E. Hoffman, Assistant Professor of Physics  
 Paul Horowitz, Professor of Physics and of Electrical Engineering  
 Arthur M. Jaffe, Landon T. Clay Professor of Mathematics and Theoretical Science  
 Efthimios Kaxiras, Gordon McKay Professor of Applied Physics and Professor of Physics  
 Mikhail D. Lukin, Professor of Physics  
 Vinothan N. Manoharan, Assistant Professor of Physics and Chemical Engineering  
 Charles M. Marcus, Professor of Physics  
 Paul C. Martin, John Hasbrouck Van Vleck Professor of Pure and Applied Physics (*on leave fall term*)  
 Eric Mazur, Gordon McKay Professor of Applied Physics and Professor of Physics  
 Joseph Minahan, Visiting Professor of Physics (*Uppsala University*)  
 Shiraz Minwalla, Assistant Professor of Physics (*on leave spring term*)  
 Masahiro Morii, John L. Loeb Associate Professor of the Natural Sciences  
 David J. Morin, Lecturer on Physics (*Assistant Director of Undergraduate Studies*)  
 Lubos Motl, Assistant Professor of Physics  
 Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences, Professor of Physics, Dean of the Division of Engineering and Applied Sciences and Dean for the Physical Sciences  
 David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics  
 Peter S. Pershan, Frank B. Baird, Jr. Professor of Science  
 Mara Prentiss, Mallinckrodt Professor of Physics (*on leave spring term*)  
 Lisa Randall, Professor of Physics  
 Subir Sachdev, Professor of Physics  
 Aravinthan D. T. Samuel, Assistant Professor of Physics  
 Irwin I. Shapiro, Timken University Professor  
 Isaac F. Silvera, Thomas D. Cabot Professor of the Natural Sciences  
 Andrew Strominger, Professor of Physics (*Director of Graduate Studies, fall term*) (*on leave spring term*)  
 Christopher Stubbs, Professor of Physics and of Astronomy  
 Michael Tinkham, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics (*on leave 2005-06*)  
 Cumrun Vafa, Donner Professor of Science  
 Ronald L. Walsworth, Senior Lecturer on Physics  
 David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics



Robert M. Westervelt, Mallinckrodt Professor of Applied Physics and of Physics  
Tai T. Wu, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

### ***Other Faculty Offering Instruction in Physics***

Gerald Holton, Mallinckrodt Research Professor of Physics and Research Professor of the History of Science  
Andrew J. M. Kiruluta, Assistant Professor of Radiology (*Medical School*)

The Physics Department offers three separate sequences of introductory courses: Physics 1a and 1b at the introductory calculus level and Physics 11a, 11b or Physics 15a, 15b, 15c at the intermediate calculus background. Students with strong preparation may also enter the 15 sequence by taking Physics 16 instead of Physics 15a. Each of the three sequences is designed to be a self-contained treatment of classical physics.

Students who expect to concentrate in physics or one of the other sciences in which physics plays a major role will usually take the Physics 15 sequence followed by Physics 143a, b. Students with excellent high-school preparation may begin the Physics 15 sequence taking Physics 16 instead of Physics 15a. Physics 16 is a course in mechanics and special relativity specifically designed for students who have done well in a high-school advanced placement course. The courses in the 15/16-143a sequence are ordinarily given on Tuesday and Thursday morning. However, scheduling issues may require a change in the time of one of these courses to the afternoon or to Monday and Wednesday, from 2:30-4. When this happens, every effort will be made to satisfy the requirements for simultaneous enrollment in courses with overlapping times.

Students who do not plan to continue in physics and have sufficient mathematical skills may wish to take the one year Physics 11 sequence. Physics 11a and 11b offer, in two terms, classical physics at a level comparable to the longer Physics 15 sequence, but covering fewer topics.

Physics 1a and 1b present a self-contained treatment of classical and modern physics in one year, but at a lower mathematical level than the Physics 11 sequence. Physics 1a and 1b are designed to meet the requirements of all medical schools. Most medical schools also accept the Physics 15 or Physics 11 sequences. Some prefer that more than two half courses in physics be taken. Premedical students should inquire at the medical schools to which they expect to apply.

Students who do not intend to devote more than one year to the study of physics, and especially those not concentrating in a physical science or mathematics, will probably find that Physics 1a and 1b, with their broader range of subject matter, will more appropriately serve their needs than Physics 11a and 11b.

Further details may be found under the individual course headings.

### ***Primarily for Undergraduates***



**Physics 1a. Principles of Physics: Mechanics**

Catalog Number: 7422

*David A. Weitz and Eric Mazur**Half course (fall term). Tu., Th., 9:30–11, plus weekly conference sections and six laboratory sessions to be arranged. EXAM GROUP: 11, 12*

An introduction to classical mechanics: kinematics, Newton's laws of motion, conservation laws, oscillations, and thermodynamics as understood from the kinetic theory of particles. Brief applications of these ideas to elasticity and fluids as helpful preparation for the MCAT exams are included.

*Note:* Not designed as an introductory course for physics concentrators; those students should take Physics 15a or 16. Students who have taken Mathematics 21a or the equivalent and desire a one-year survey course may wish to take Physics 11a and 11b in order to make full use of their mathematical background. Physics 1a may not ordinarily be taken for credit in addition to Physics 11a, 15a, 16, or Science A-15. This course, when taken for a letter grade together with Physics 1b, meets the Core area requirement for Science A.

*Prerequisite:* Mathematics 1b or the equivalent. Students with a lower level of mathematical preparation should consult the instructor.

**Physics 1b. Principles of Physics: Electricity and Magnetism, Circuits and Optics**

Catalog Number: 7483

*Eric Mazur and David A. Weitz**Half course (spring term). Tu., Th., 11:30–1, plus weekly 2-hour discussion sections and five laboratory sessions to be arranged. EXAM GROUP: 13, 14*

A continuation of Physics 1a: electricity and magnetism, including electromagnetic waves, electric circuits, and optics.

*Note:* May not ordinarily be taken for credit in addition to Physics 11b or 15b. This course, when taken for a letter grade together with Physics 1a, meets the Core area requirement for Science A.

*Prerequisite:* Physics 1a and Mathematics 1b, or the equivalent.

**Physics 11a. Mechanics**

Catalog Number: 3131

*Jennifer E. Hoffman and Masahiro Morii**Half course (fall term). Lectures, Tu., Th., 11:30–1; weekly ninety-minute discussion sections. EXAM GROUP: 13, 14*

Physics 11a is the first half of a one-year physics sequence. It introduces classical mechanics, including the laws of conservation of energy, momentum, and angular momentum; translational motion of particles, rigid bodies, and fluids; rotational motion of rigid bodies; and description of waves. Physics 11a may be taken by students who have taken or who are concurrently taking Mathematics 21a or 23a or Applied Mathematics 21a. Calculus is used routinely but the emphasis is placed on the basic concepts.

*Note:* Physics 11a may not be taken for credit by students who have passed Physics 15a or 16. This course, when taken for a letter grade, meets the Core area requirement for Science A.

**Physics 11b. Electricity, Magnetism, and Waves**

Catalog Number: 5472

*Masahiro Morii and Jennifer E. Hoffman*





*Half course (spring term). Lectures, Tu., Th., 10–11:30, weekly ninety-minute discussion sections, and one three-hour laboratory session every two weeks. EXAM GROUP: 12, 13*

Physics 11b is the second half of a one-year physics sequence. It covers the basic phenomena of electricity and magnetism, elements of circuits with selected applications, Maxwell's equations, electromagnetic waves, and a brief introduction to quantum physics.

*Note:* May not be taken for credit by students who have passed Physics 15b or Physics 15c. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Physics 11a; Mathematics 21a or 23a.

### **Physics 11c. Special Topics in Biology and Life Sciences**

Catalog Number: 4697

*Melissa Franklin*

*Half course (fall term). M., W., 12:30–2. EXAM GROUP: 5, 6*

Intended for undergraduate students in physics, biology, biophysics, biochemistry, chemistry, physiology, and biomedical engineering, this course introduces students to the underlying physics of functional bio-fluid dynamics and bio-thermodynamics applied to examples and problems in life sciences. Topics include probability, mechanics of motility, diffusion and osmotic transport including biological pumps, as well as thermodynamics of living systems.

*Note:* Laboratory sessions may be arranged.

*Prerequisite:* Preparation to the level of Physics 11a or AP physics. Students should have taken or be concurrently taking Mathematics 21a or 23a or Applied Mathematics 21a or equivalent.

### **Physics 15a. Introductory Mechanics and Relativity**

Catalog Number: 1984

*David J. Morin*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30, and a weekly ninety-minute discussion section. EXAM GROUP: 12, 13*

Newtonian mechanics and special relativity. Topics include vectors; kinematics in three dimensions; Newton's laws; force, work, power; conservative forces, potential energy; momentum, collisions; rotational motion, angular momentum, torque; static equilibrium, oscillations, simple harmonic motions; gravitation, planetary motion; fluids; special relativity.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science A. Laboratory sessions may be arranged.

*Prerequisite:* Mathematics preparation at least at the level of Mathematics 1b concurrently is required. However, some elementary ideas from multivariable calculus may be used and students are encouraged to take Mathematics 21a concurrently.

### **Physics 15b. Introductory Electromagnetism**

Catalog Number: 2701

*George Brandenburg (fall term), Nima Arkani-Hamed and Markus Greiner (spring term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 11:30–1; Spring: Tu., Th., 10–11:30; and a weekly two-hour discussion section and three-hour laboratory session every two weeks. EXAM GROUP: Fall: 13, 14; Spring: 12, 13*

Electricity and magnetism at the level of Purcell's book. Covers all topics in Purcell including Maxwell's equations in differential form and electric and magnetic fields in materials.

*Note:* Laboratory "zap" electronics lab in a toolbox—students work on the labs in their dorm



rooms—afternoon and evening help labs are scheduled. Laboratories will be under the supervision of Thomas C. Hayes. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Physics 15a, Physics 16, or written permission of the Head Tutor in Physics. Mathematics preparation at least at the level of Mathematics 21a taken concurrently is required. Vector calculus, div, grad and curl are used extensively—in principle, this is taught in the course. Students taking Mathematics 21a concurrently will likely find that some concepts are introduced in Physics 15b before they have seen them in Mathematics 21a. Some students may wish to postpone Physics 15b until they have completed Mathematics 21a.

### **Physics 15c. Wave Phenomena**

Catalog Number: 8676

*Jennifer E. Hoffman (spring term) and Cumrun Vafa (fall term)*

*Half course (fall term; repeated spring term). Tu., Th., 1–2:30, and three hours per week of conference and laboratory. EXAM GROUP: 15, 16*

Forced oscillation and resonance; coupled oscillators and normal modes; Fourier series; Electromagnetic waves, radiation, longitudinal oscillations, sound; traveling waves; signals, wave packets and group velocity; two- and three-dimensional waves; polarization; geometrical and physical optics; interference and diffraction. Optional topics: Water waves, holography, x-ray crystallography. Solitons.

*Note:* Laboratory: Continuation of “zap” plus additional labs. Laboratories will be under the supervision of Thomas C. Hayes. This course, when taken for a letter grade, meets the Core area requirement for Science A.

*Prerequisite:* Physics 15b and mathematics preparation at the level of Mathematics 21b taken concurrently. Some prior knowledge of complex numbers (for example as taught in Mathematics 1b) is helpful. Multivariable calculus is used in the treatment of the wave equation, but plays a much less central role than in Physics 15b.

### **Physics 16. Mechanics and Special Relativity**

Catalog Number: 2019

*Howard Georgi*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Newtonian mechanics and special relativity for students with good preparation in physics and mathematics at the level of the advanced placement curriculum. Topics include an introduction to Lagrangian mechanics, Noether’s theorem, special relativity, collisions and scattering, rotational motion, angular momentum, torque, the moment of inertia tensor, oscillators damped and driven, gravitation, planetary motion, and an introduction to cosmology.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Science A. Laboratory sessions may be arranged.

*Prerequisite:* Score of 5 on the mechanics section of the Physics C Advanced Placement exam, or equivalent. Mathematics preparation at least at the level of Mathematics 21a taken concurrently is required. Thorough knowledge of calculus of one variable and vectors plus some mathematical sophistication. The mathematical level will be significantly higher than that of Physics 15a.

**\*Physics 90r. Supervised Research**

Catalog Number: 2460

*David J. Morin and members of the Department**Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Primarily for selected concentrators in Physics, or in Chemistry and Physics, who have obtained honor grades in Physics 15 and a number of intermediate-level courses. The student must be accepted by some member of the faculty doing research in the student's field of interest. The form of the research depends on the student's interest and experience, the nature of the particular field of physics, and facilities and support available. Students wishing to write a senior thesis can do so by arranging for a sponsor and enrolling in this course. A list of possible faculty sponsors and their fields is available in Lyman 233 and on the Physics Department Web page. Course enrollment forms may be obtained from Lyman 233.

**\*Physics 91r. Supervised Reading Course for Undergraduates**

Catalog Number: 1218

*David J. Morin and members of the Department**Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Open to selected concentrators in Physics, Chemistry and Physics, and other fields who wish to do supervised reading and studying of special topics in physics. Ordinarily such topics do not include those covered in a regular course of the Department. Honor grades in Physics 15 and a number of intermediate-level courses are ordinarily required. The student must be accepted by a member of the faculty. A list of possible faculty sponsors and their fields is available in Lyman 233 and on the Physics Department Web page. Course enrollment forms may be obtained from Lyman 233.

**\*Physics 95. Topics in Current Research**

Catalog Number: 2806

*Isaac F. Silvera**Half course (fall term). M., at 3, W., 7:30–9 pm.*

The goal of this tutorial is to guide students from learning physics by subject (E&M, quantum mechanics, etc.) to appreciating physics as an intense, diverse discipline of modern research. Every Wednesday evening a faculty member speaks on his/her area of research, preceded by assigned reading and a lecture designed to introduce students to some of the basic physics, as well as important developments and burning problems at the frontiers of research.

*Note:* Primarily for junior and senior concentrators.

***Cross-listed Courses*****Astronomy 45. Introduction to Extragalactic Astrophysics and Cosmology****\*Freshman Seminar 22z. Quantitative Methods in Public Policy Decisions****Science A-29. The Nature of Light and Matter*****For Undergraduates and Graduates***

Certain physics courses are offered in several other departments. See especially the offerings of the Division of Engineering and Applied Sciences.



**[Physics 121. History and Philosophy of 20th-Century Physics]**

Catalog Number: 0160

*Peter L. Galison*

*Half course (spring term). Hours to be arranged.*

An introduction to the history and philosophy of physics for students with a strong undergraduate background in science. Topics include relativity, quantum theory, weapons development, and modern ideas about unification.

*Note:* Expected to be given in 2007–08. May not be taken for credit by students who have taken History of Science 120.

*Prerequisite:* An introductory course in college physics, preferably at the level of Physics 15c.

**Physics 123. Laboratory Electronics**

Catalog Number: 0864 Enrollment: Limited to 22 students per section.

*Paul Horowitz and Thomas C. Hayes*

*Half course (fall term; repeated spring term). Section I: Tu., Th., 1:30–5; Section II: W., F., 1:30–5. First Meeting, spring: W., Feb 1, 1:30 pm, Science Center 206. EXAM GROUP: 15, 16*

A lab-intensive introduction to electronic circuit design. Develops circuit intuition and debugging skills through daily hands-on lab exercises, each preceded by class discussion, with minimal use of mathematics and physics. Moves quickly from passive circuits, to discrete transistors, then concentrates on operational amplifiers, used to make a variety of circuits including integrators, oscillators, regulators, and filters. The digital half of the course treats analog-digital interfacing, emphasizes the use of microcontrollers and programmable logic devices (PLDs).

*Note:* Regardless of section choice, all students must attend first course meeting on 9/20/05 or 2/1/06 at 1:30 in Science Center 206.

**Physics 125. Widely Applied Physics**

Catalog Number: 6990

*Nima Arkani-Hamed*

*Half course (fall term). M., W., 12–1:30. EXAM GROUP: 5, 6*

Applies elementary physics to real things and practical situations. Emphasis is on developing physical intuition and the ability to do order-of-magnitude calculations. New physical concepts are introduced as necessary. Example topics: the Big Bang, stars, nuclear reactions, and searches for extra-solar planets; aerodynamics, rockets and spacecraft; materials properties; electronic noise, lasers, and the global positioning system; magnetic resonance imaging, physiology of major organs, and health risks; energy use and production; climate and global change.

*Note:* Physics 143a and 181 helpful, but not required.

*Prerequisite:* Physics 15a, b, c, and mathematics at the level of Mathematics 21a (which may be taken concurrently).

**[Physics 136. Physics of Medical Imaging]**

Catalog Number: 0182

*Andrew J. M. Kiruluta (Medical School)*

*Half course (spring term). Hours to be arranged.*

Presents the physics of modern medical imaging techniques. Explores the physics of diagnostic imaging from a unified electromagnetics' viewpoint ranging from a simple mapping of radiation



attenuation coefficients in X-ray, gamma radiative single photon (SPECT) and double photon (positron) emission tomography (PET), echo measurements in ultrasound, interferometric pulse echo characterization in optical coherence tomography (OCT) to resonance absorption in a nuclear magnetic resonance (NMR) induced inhomogeneously broadened RF absorber.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Physics 15b or 11b and mathematics preparation at least to the level of Mathematics 21b taken concurrently. Physics 143a and b are recommended but not essential.

### **Physics 140. Introduction to Biophysics**

Catalog Number: 5394

*Howard C. Berg and Aravinthan D. T. Samuel*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to the physics and biology of stochastic processes that affect the behavior of cells, biopolymers and biological motors. Elements of probability and statistics, entropic elasticity, the random walk, diffusion, sedimentation and electrophoresis. Applications to sensory physiology, cell motility, stretching and twisting of DNA and the motion of motors along biopolymers.

*Note:* Given in alternate years. Lectures, problem sets, discussions. May not be taken for credit by students who have taken MCB 140.

*Prerequisite:* Mathematics at the level of 21a, Physics 15a/15b or Physics 11a/11b or permission of the instructor. Some familiarity with elementary statistical mechanics helpful.

### **Physics 143a. Quantum Mechanics I**

Catalog Number: 1050

*Daniel S. Fisher (fall term) and Gary J. Feldman (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to nonrelativistic quantum mechanics: uncertainty relations; Schrödinger equation; Dirac notation; matrix mechanics; one-dimensional problems including particle in box, tunneling, and harmonic oscillator; angular momentum, hydrogen atom, spin, Pauli principle; time-independent perturbation theory; scattering.

*Prerequisite:* Linear algebra including matrix diagonalization; Physics 15c or written permission of the Head Tutor.

### **Physics 143b. Quantum Mechanics II**

Catalog Number: 0253

*Lubos Motl*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Further techniques and applications of quantum mechanics, including quantum statistics, Bose-Einstein condensation, advanced topics in angular momentum: rotations, tensor operators and the Wigner-Eckart theorem, variational methods, time-dependent perturbation theory, nuclear magnetic resonance, emission and absorption of radiation, quantization of the radiation field, Casimir effect, adiabatic approximation, geometrical phases, Aharonov-Bohm effect, collision theory, measurement theory, Bell's inequality, and an introduction to quantum computing.

*Prerequisite:* Physics 143a.

**Physics 145. Elementary Particle Physics**

Catalog Number: 6057

George Brandenburg

*Half course (spring term). Lecture meets M., W., (F.,) at 10; seminars and sections Tu., Th., 7:30–9 pm, as needed. EXAM GROUP: 3*

Introduction to elementary particle physics. Emphasis is on concepts and phenomenology rather than on a detailed calculational development of theories. Starts with the discovery of the electron in 1897, ends with the theoretical motivation for the Higg's boson, and attempts to cover everything important in between. Taught partly in seminar mode, with each student presenting a classic paper of the field.

*Prerequisite:* Physics 143a. Physics 143b or equivalent is useful.

**Physics 151. Mechanics**

Catalog Number: 2068

Arthur M. Jaffe

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Fundamental ideas of classical mechanics including contact with modern work and applications. Topics include Lagrange's equations, the role of variational principles, symmetry and conservation laws, Hamilton's equations, Hamilton-Jacobi theory and phase space dynamics. Applications to celestial mechanics, quantum mechanics, the theory of small oscillations and classical fields, and nonlinear oscillations, including chaotic systems presented.

*Note:* May not be taken for credit in addition to Engineering Sciences 125.

*Prerequisite:* Physics 15a, b or written permission of the Head Tutor; Mathematics 21a, b or equivalent.

**Physics 153. Electrodynamics**

Catalog Number: 0264

Mikhail D. Lukin

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Aimed at advanced undergraduates. Emphasis on the properties and sources of the electromagnetic fields and on the wave aspects of the fields. Course starts with electrostatics and subsequently develops the Maxwell equations. Topics: electrostatics, dielectrics, magnetostatics, electrodynamics, radiation, wave propagation in various media, wave optics, diffraction and interference. A number of applications of electrodynamics and optics in modern physics are discussed.

*Prerequisite:* Physics 15 a, b, and c, or written permission of the Head Tutor; Mathematics 21a, b or equivalent.

**[Physics 167. Condensed Matter Physics of Modern Technologies]**

Catalog Number: 4654

Eugene A. Demler

*Half course (spring term). Hours to be arranged.*

This course will explore how recent developments in condensed matter physics are expanding the frontiers of modern technologies. We will review semiconducting, magneto- and optoelectronic devices, magnetoresistive materials, carbon nanotubes, and high temperature superconductors. Technologies in the earliest stages of their development, such as





nanotechnology, quantum computations and communication, will also be discussed.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Quantum mechanics (Physics 143a).

### **Physics 181. Statistical Mechanics and Thermodynamics**

Catalog Number: 6346

*Eugene A. Demler*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Introduction to thermal physics: basic concepts of thermodynamics (energy, heat, work, temperature, entropy), classical and quantum ensembles and their origins, and distribution functions. Applications include Debye's theory of solids, Planck's theory of black body radiation, classical and quantum gases, magnetism and phase transitions.

*Note:* May not be taken for credit in addition to Engineering Sciences 181.

*Prerequisite:* Physics 143a or equivalent.

### **Physics 191r. Advanced Laboratory**

Catalog Number: 7711 Enrollment: Together with Physics 247r, limited to a total of 24 students.

*Peter S. Pershan, Isaac F. Silvera, and Ronald L. Walsworth (fall term); Peter S. Pershan, Isaac F. Silvera, and Robert M. Westervelt (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 1–5. EXAM GROUP: 15, 16, 17, 18*

Students carry out three experimental projects selected from those available representing condensed matter, atomic, nuclear, and particle physics. Included are nuclear magnetic resonance, microwave spectroscopy, optical pumping, scattering of laser light, neutron activation of radioactive isotopes, Compton scattering of gamma rays, the relativistic mass of the electron, recoil free gamma-ray resonance, the lifetime of the muon, studies of superfluid helium, positron annihilation superconducting transitions, the quantum Hall effect, and properties of semiconductors. The facilities of the laboratory include several computers that are used extensively in the laboratory.

*Note:* A substantial amount of outside reading is expected.

*Prerequisite:* Physics 15. Physics 143a is recommended.

### **Physics 195. Introduction to Solid State Physics**

Catalog Number: 2978

*Robert M. Westervelt*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Fundamental physical properties of crystalline solids discussed in terms of the basic principles of classical and quantum physics. Crystal structure, lattice vibrations, specific heat, energy band theory of metals and semiconductors and insulators, electrical transport in metals and semiconductors, optical and magnetic properties, superconductivity.

*Note:* Designed as a first course in solid state physics for students with knowledge of elementary quantum mechanics (Physics 143a). Some knowledge of statistical physics (Physics 181) is also helpful, but not a formal prerequisite. Students who propose to take Applied Physics 295a in the spring term, and who have not previously taken a formal course in solid state physics, are strongly advised to take this course first. It is suggested that students may wish to take Applied Physics 195 when this course is bracketed.





### ***Cross-listed Courses***

**[Applied Mathematics 147. Nonlinear Dynamical Systems]**  
**[Applied Physics 195. Introduction to Solid State Physics]**  
[Astronomy 145. Topics in Astrophysics](#)  
[Astronomy 150. Radiative Processes in Astrophysics](#)  
[Astronomy 191. Astrophysics Laboratory](#)  
[Astronomy 192. Tools and Techniques of Astronomical Measurements](#)  
[Chemistry 160. Physical Chemistry](#)  
[Chemistry 161. Statistical Thermodynamics](#)  
**[Chemistry 163. Frontiers in Biophysics]**  
[Chemistry 165. Experimental Physical Chemistry](#)  
[Earth and Planetary Sciences 131. Introduction to Physical Oceanography](#)  
[Engineering Sciences 120. Introduction to the Mechanics of Solids](#)  
[Engineering Sciences 123. Introduction to Fluid Mechanics](#)  
[Engineering Sciences 154. Electronic Devices and Circuits](#)  
**[Engineering Sciences 173. Optoelectronics and Photonics: Principles and Applications]**  
[Engineering Sciences 181. Thermodynamics](#)  
[Engineering Sciences 190. Introduction to Materials Science](#)

### ***Primarily for Graduates***

The courses primarily for graduates are open to undergraduates provided they have passed the prerequisites with a grade of C or higher; in each case, special permission by the instructor is needed. In cases where students do not have the listed prerequisites, the written approval of the Head Tutor is required.

#### **Physics 210. General Theory of Relativity**

Catalog Number: 4840

*Andrew Strominger*

*Half course (fall term). W., F., 1–2:30. EXAM GROUP: 6, 7*

An introduction to general relativity: Riemannian geometry; the Principle of Equivalence; Einstein's field equation; the Schwarzschild solution, the Newtonian limit; experimental tests, black holes, the causal structure of spacetime.

*Prerequisite:* Physics 151 and 153, and Mathematics 21 or equivalents.

#### **[Physics 211. General Relativity, Cosmology, and Other Topics]**

Catalog Number: 0469

*Lisa Randall*

*Half course (spring term). Hours to be arranged.*

Our focus is the classical and quantum theory of black holes. The general Kerr-Newman solution; causal structure; Penrose diagrams; the classical laws of black hole mechanics, experimental evidence; Hawking radiation; the information paradox; de Sitter and black hole entropy.

*Note:* Expected to be given in 2006–07. Auditors should obtain permission of instructor.

*Prerequisite:* General relativity at level of Physics 210 or equivalent. Physics 253a helpful, but not required.



### **Physics 218. Modern Dynamical Systems**

Catalog Number: 1362

*Paul C. Martin*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Classical hamiltonian theory. Integrable systems, nonlinear dynamics, and chaos. Maps, KAM theory, and bifurcations. Mixing and ergodic theory. Dynamics of continuous systems, especially fluids. Stochastic processes.

*Prerequisite:* Physics 151 and 143a, b or equivalent; Applied Math 201, 202 or equivalent.

### **Physics 232 (formerly Physics 232a). Advanced Electromagnetism**

Catalog Number: 4885

*David R. Nelson*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Maxwell's equations in macroscopic media, conservation laws, Green's functions, time-dependent solutions and radiation, scattering and diffraction, and gauge invariance. Time permitting, geometrical optics, fiber optics, photon band gaps and negative refraction index materials will be discussed.

*Prerequisite:* Physics 153 and Applied Mathematics 105a, 105b, or equivalent.

### **Physics 247r. Laboratory Course in Contemporary Physics**

Catalog Number: 8665 Enrollment: Together with Physics 191r, limited to a total of 24 students.

*Peter S. Pershan, Andrew Foland, and Ronald L. Walsworth (fall term); Peter S. Pershan, Isaac F. Silvera, and Robert M. Westervelt (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 1–5. EXAM GROUP: 15, 16, 17, 18*

Three experimental projects are selected representing condensed matter, atomic, nuclear, and particle physics. Examples: experiments on NMR, microwave spectroscopy, optical pumping, scattering of laser light, neutron activation, Compton scattering of gamma rays, relativistic mass of the electron, recoil-free gamma ray resonance, lifetime of the muon, superfluid helium, superconducting transitions, and properties of semiconductors.

*Note:* A substantial amount of outside reading may be required.

### **Physics 248. Phenomena of Elementary Particle Physics**

Catalog Number: 5431

*Joseph Minahan (Uppsala University)*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to the phenomena of elementary particle physics. Topics include weak interactions, QCD deep inelastic scattering and nucleon structure functions, heavy quark production and decay and QED.

*Prerequisite:* Some familiarity with relativistic quantum mechanics.

### **Physics 251a. Advanced Quantum Mechanics I**

Catalog Number: 2191

*Bertrand I. Halperin*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Basic course in nonrelativistic quantum mechanics. Review of wave functions and the Schrödinger Equation; Hilbert space; the WKB approximation; central forces and angular



momentum; scattering; electron spin; measurement theory; the density matrix; time-independent perturbation theory.

*Prerequisite:* Physics 143a, b or equivalent, or permission of instructor.

### **Physics 251b. Advanced Quantum Mechanics II**

Catalog Number: 2689

*Bertrand I. Halperin*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

Time-dependent perturbations; quantized radiation field; absorption and emission of radiation; Heisenberg picture; identical particles and quantum field theory; Feynman Path integrals.

*Prerequisite:* Physics 251a.

### **Physics 253a. Quantum Field Theory I**

Catalog Number: 8050

*Lisa Randall*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduction to relativistic quantum mechanics and quantum field theory. Canonical quantization, scalar and spinor fields, scattering theory, Feynman diagrams, renormalization.

*Prerequisite:* Physics 251a,b or equivalents.

### **Physics 253b. Quantum Field Theory II**

Catalog Number: 5250

*Lubos Motl*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

A continuation of Physics 253a. Vector fields, gauge invariance, functional integration, quantum electrodynamics, spontaneous symmetry breakdown, and an introduction to the standard model.

*Prerequisite:* Physics 253a.

### **[Physics 253c. Quantum Field Theory III]**

Catalog Number: 4000

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*Half course (fall term). Hours to be arranged.*

This course explores advanced topics in quantum field theory. Possible topics include semi-classical methods, tunneling in flat and curved spaces, topological defects, lattice gauge theories, conformal field theories in diverse dimensions, large N and string description of gauge theory, the AdS/CFT correspondence, and supersymmetric gauge theories in four dimensions.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Physics 253b.

### **[Physics 262. Statistical Physics]**

Catalog Number: 1157

*Tai T. Wu*

*Half course (fall term). Hours to be arranged.*

Basic principles of statistical physics and thermodynamics, with applications including: the equilibrium properties of classical and quantum gases; phase diagrams, phase transitions and critical points, as illustrated by the gas-liquid transition and simple magnetic models; Bose-



Einstein condensation.

*Note:* Expected to be given in 2006–07. Students may wish to take Applied Physics 284 when this course is bracketed.

*Prerequisite:* Physics 143a, b and Physics 181 or Engineering Sciences 181.

### **[Physics 265. Photons and Atoms]**

Catalog Number: 4203

*Lene V. Hau*

*Half course (spring term). Hours to be arranged.*

Introduction to quantum field theory, quantization of the electromagnetic radiation field and many-body atomic systems, Bose-Einstein condensates, superfluids, quantized vortices, and degenerate Fermi gases. Laser cooling, dressed states, stimulated radiation forces. Casimir force, atom interferometers.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* At least one term of quantum mechanics beyond the level of Physics 143a.

### **Physics 268r. Classical and Quantum Phase Transitions**

Catalog Number: 7951

*Subir Sachdev*

*Half course (spring term). M., W., 9:30–11. EXAM GROUP: 2, 3*

The theory of phase transitions at zero and non-zero temperatures. Landau theory. Fluctuations and field theory. Renormalization group. Quantum transitions between insulators, superfluids, metals, and magnets. Modern ideas on the description of correlated states by emergent gauge fields.

*Prerequisite:* Physics 262 or equivalent.

### **Physics 269r. Topics in Statistical Physics and Quantitative Biology**

Catalog Number: 6214

*David R. Nelson*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Introduction to strongly interacting soft condensed matter and biophysical systems. We hope to discuss the theory of flexible polymer chains, single molecule biophysics, nonlinear statistical dynamics, the theory of RNA folding, and the statistical mechanics of DNA sequence matching.

*Note:* Expected to be omitted in 2006–07.

*Prerequisite:* Physics 262, Applied Physics 284 or equivalent.

### **Physics 270. Mesoscopic Physics and Quantum Information Processing**

Catalog Number: 0788

*Charles M. Marcus*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduces the subject of quantum effects in electronic systems, including conductance fluctuations, localization, electron interference, and many-body effects such as the Kondo effect. This year, we will also focus on solid state implementations of quantum information processing systems.

*Note:* The reading list focuses primarily on the experimental literature, augmented by recent texts and reviews. The format of the course is a combination of lectures and journal-club-style



presentations. A term paper on a topic within mesoscopic condensed matter physics or quantum information will allow for deeper exploration. Given in alternate years.

*Prerequisite:* Basic familiarity with quantum mechanics and solid state physics at the level of undergraduate courses.

### **[Physics 283b. Beyond the Standard Model]**

Catalog Number: 7153

*Lisa Randall*

*Half course (fall term). Hours to be arranged.*

Covers current advances in particle physics beyond the Standard Model. Topics could include supersymmetry, the physics of extra dimensions, and connections between particle physics and cosmology.

*Note:* Expected to be given in 2006–07.

### **[Physics 285a. Modern Atomic and Optical Physics I]**

Catalog Number: 8204

*Gerald Gabrielse*

*Half course (fall term). Hours to be arranged.*

Introduction to modern atomic physics. The fundamental concepts and modern experimental techniques will be introduced. Topics will include two-state systems, magnetic resonance, interaction of radiation with atoms, transition probabilities, spontaneous and stimulated emission, dressed atoms, trapping, laser cooling of “two-level” atoms, structure of simple atoms, fundamental symmetries, two-photon excitation, light scattering and selected experiments. The first of a two-term subject sequence that provides the foundations for contemporary research.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* One course in quantum mechanics (143a and b, or equivalent).

### **Physics 285b. Modern Atomic and Optical Physics II**

Catalog Number: 4195

*Mikhail D. Lukin*

*Half course (fall term). M., W., 12–1:30. EXAM GROUP: 5, 6*

Introduction to quantum optics and modern atomic physics. The basic concepts and theoretical tools will be introduced. Topics will include coherence phenomena, non-classical states of light and matter, atom cooling and trapping and atom optics. The second of a two-term subject sequence that provides the foundations for contemporary research.

*Prerequisite:* A course in electromagnetic theory (Physics 232a or equivalent); one half-course in intermediate or advanced quantum mechanics.

### **Physics 287a. Introduction to String Theory**

Catalog Number: 2012

*Joseph Minahan (Uppsala University)*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Introduction to the perturbative formulation of string theories and eleven-dimensional supergravity. Basic examples of compactifications and solitonic solutions and their role in strong-weak coupling dualities in string theory.

*Prerequisite:* Physics 253a, b or equivalent.



### **Physics 287br. Topics in String Theory**

Catalog Number: 4555

*Cumrun Vafa*

*Half course (spring term). W., F., 2:30–4. EXAM GROUP: 7, 8*

A selection of topics from current areas of research on string theory.

*Prerequisite:* Physics 287a.

### **Physics 289r. Supersymmetry and Invariants**

Catalog Number: 6400

*Arthur M. Jaffe (spring term) and Shiraz Minwalla (fall term)*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

We study the dynamics of supersymmetric field theories and superconformal field theories in  $d=1-6$  spacetime dimensions, with emphasis on exact results. We study the relations between imaginary time superfields, functional integrals, and random matrices.

*Prerequisite:* Knowledge of quantum theory and of analysis. Knowledge of field theory will be helpful but is not essential.

### ***Cross-listed Courses***

**Applied Mathematics 201. Physical Mathematics I**

**Applied Mathematics 202. Physical Mathematics II**

**Applied Mathematics 203 (formerly Applied Mathematics 203r). Nonlinear Dynamics and Chaos**

**[Applied Mathematics 205. Practical Scientific Computing]**

**Applied Physics 216. Modern Optics and Quantum Electronics**

**Applied Physics 284. Statistical Thermodynamics**

**Applied Physics 295a. Introduction to Quantum Theory of Solids**

**Applied Physics 295b. Quantum Theory of Solids**

**[Applied Physics 296r. Superconductivity]**

**Applied Physics 298r. Materials Chemistry and Physics: Seminar**

**Engineering Sciences 274. Quantum Technology I**

**Engineering Sciences 275. Nanophotonics**

**[MCB 212. Topics in Biophysics]**

### ***Graduate Courses of Reading and Research***

Odd numbers designate courses of preliminary reading or experimental research. Even numbers designate thesis research and are to be used only when an instructor has agreed to supervise a student's research for the doctorate. Reading and Research courses largely concerned with physics are offered under the sponsorship of several other departments, particularly Astronomy, Chemistry, and Earth and Planetary Sciences; and of the Division of Engineering and Applied Sciences (Applied Mathematics, Applied Physics, Computer Science, and Engineering Sciences).

**\*Physics 301,302. Experimental Atomic and Elementary Particle Physics**



Catalog Number: 1735,1736  
*Gerald Gabrielse 1768*

**\*Physics 303,304. Topics in Biophysics, Neurobiology, and Animal Behavior**

Catalog Number: 1727,1792  
*Aravinthan D. T. Samuel 4625*

**\*Physics 305,306. Experimental High Energy Physics**

Catalog Number: 7929,0855  
*John Huth 3506*

**\*Physics 307,308. Experimental Atomic Physics, Bose-Einstein Condensation, and Quantum Optics**

Catalog Number: 7534,3277  
*Lene V. Hau 2151 (on leave fall term)*

**\*Physics 309,310. Topics in Elementary Particle Theory**

Catalog Number: 4556,4561  
*Cumrun Vafa 2069*

**\*Physics 311,312. Experimental Atomic, Molecular, and Low-Energy Particle Physics**

Catalog Number: 6839,6838  
*John M. Doyle 3507 (on leave 2005-06)*

**\*Physics 315,316. Topics in Theoretical Atomic, Molecular, and Optical Physics**

Catalog Number: 7387,8871  
*Eric J. Heller 1074*

**\*Physics 317,318. Topics in Biophysics**

Catalog Number: 8345,0990  
*Xiaowei Zhuang 3991*

**\*Physics 319,320. Topics in Experimental High Energy Physics**

Catalog Number: 4520,4521  
*Melissa Franklin 2500*

**\*Physics 321,322. Experimental Soft Condensed Matter Physics**

Catalog Number: 9963,7098  
*David A. Weitz 2497*

**\*Physics 323,324. Nanostructures and Mesoscopic Physics**

Catalog Number: 3629,9079  
*Charles M. Marcus 2890*





**\*Physics 325,326. Topics in Theoretical Particle Physics and Quantum Gravity**

Catalog Number: 3686,1169

*Lubos Motl 5053*

**\*Physics 327,328. Topics in Condensed Matter Physics**

Catalog Number: 5969,6524

*David R. Nelson 5066*

**\*Physics 329,330. Solid State and Statistical Theory**

Catalog Number: 6198,6373

*Bertrand I. Halperin 4755*

**\*Physics 333,334. Experimental Atomic Physics**

Catalog Number: 2902,2904

*Mara Prentiss 2741 (on leave spring term)*

**\*Physics 335,336. Topics in the History and Philosophy of Physics**

Catalog Number: 6697,4276

*Gerald Holton 1883*

**\*Physics 337,338. Topics in Experimental High Energy Physics**

Catalog Number: 1809,6368

*Masahiro Morii 3798*

**\*Physics 339,340. Condensed Matter and Atomic Physics**

Catalog Number: 5096,6843

*Subir Sachdev 5252*

**\*Physics 341,342. Topics in Experimental Atomic and Condensed Matter Physics**

Catalog Number: 1990,6602

*Markus Greiner 5344*

**\*Physics 343,344. Observational Cosmology and Experimental Gravitation**

Catalog Number: 4253,6881

*Christopher Stubbs 4856*

**\*Physics 345,346. Experimental Gravitation: Radio and Radar Astronomy**

Catalog Number: 5067,5072

*Irwin I. Shapiro 7660*

**\*Physics 347,348. Topics in Quantum Optics**

Catalog Number: 8010,1627

*Mikhail D. Lukin 3990*



**\*Physics 349,350. Topics in String Theory, Quantum Gravity, and Field Theory**

Catalog Number: 1818,0791

*Shiraz Minwalla 4228 (on leave spring term)*

**\*Physics 351,352. Experimental Soft Condensed Matter and Materials Physics**

Catalog Number: 6533,5661

*Vinothan N. Manoharan 5251*

**\*Physics 353,354. Topics in Statistical Physics**

Catalog Number: 3721,5287

*Paul C. Martin 2103 (on leave fall term)*

**\*Physics 355,356. Theory of Elementary Particles**

Catalog Number: 1213,7654

*Roy J. Glauber 2113*

**\*Physics 357,358. Experimental Condensed Matter Physics**

Catalog Number: 4430,5227

*Robert M. Westervelt 6148*

**\*Physics 359,360. Topics in Condensed Matter Physics**

Catalog Number: 8238,7560

*Eugene A. Demler 3847*

**\*Physics 361,362. Topics in Condensed Matter and Statistical Physics**

Catalog Number: 3750,4793

*Daniel S. Fisher 2600*

**\*Physics 363,364. Topics in Condensed Matter Theory**

Catalog Number: 2957,2958

*Efthimios Kaxiras 3050*

**\*Physics 365,366. Topics in Mathematical Physics**

Catalog Number: 5170,1567

*Arthur M. Jaffe 2095*

**\*Physics 367,368. Experimental Astrophysics**

Catalog Number: 1075,1274

*Paul Horowitz 3537*

**\*Physics 369,370. Experimental Condensed Matter: Synchrotron Radiation Studies**

Catalog Number: 1538,1539

*Peter S. Pershan 1105*



**\*Physics 371,372. Topics in Experimental High Energy Physics**

Catalog Number: 2519,6461

*Gary J. Feldman 2599*

**\*Physics 373,374. Topics in the History and Philosophy of Modern Physics**

Catalog Number: 6140,6143

*Peter L. Galison 3239 (on leave 2005-06)*

**\*Physics 375,376. Superconductivity and Mesoscopic Physics**

Catalog Number: 1228,7663

*Michael Tinkham 2131 (on leave 2005-06)*

**\*Physics 377,378. Theoretical High Energy Physics**

Catalog Number: 1436,2007

*Tai T. Wu 1051 (on leave spring term)*

**\*Physics 379,380. Topics in Elementary Particle Research and String Theory**

Catalog Number: 7523,7524

*Andrew Strominger 3700 (on leave spring term)*

**\*Physics 381,382. Experimental Condensed Matter Physics**

Catalog Number: 1281,2355

*Jennifer E. Hoffman 4888*

**\*Physics 383,384. Low Temperature Physics of Quantum Fluids and Solids; Ultra High Pressure Physics**

Catalog Number: 3851,4395

*Isaac F. Silvera 7468*

**\*Physics 385,386. Topics in Biophysics**

Catalog Number: 5901,5902

*Howard C. Berg 1377 (on leave fall term)*

**\*Physics 387,388. Topics in Quantum Optics and Molecular Physics**

Catalog Number: 5772,5774

*Eric Mazur 7952*

**\*Physics 389,390. Topics in Field Theory: The Standard Model and Beyond**

Catalog Number: 4393,2571

*Lisa Randall 4255*

**\*Physics 391,392. Experimental Atomic Physics, Biophysics, and Soft Matter Physics**

Catalog Number: 1006,2753

*Ronald L. Walsworth 2263*



**\*Physics 393,394. Topics in Elementary Particle Theory**

Catalog Number: 6051,6218

*Howard Georgi 4754*

**\*Physics 395,396. Topics in Elementary Particle Theory**

Catalog Number: 9844,9408

*Nima Arkani-Hamed 3886*

**\*Physics 397,398. Experimental Condensed Matter Physics**

Catalog Number: 7355,7356

*Jene A. Golovchenko 1986 (on leave spring term)*

## Political Economy and Government

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Higher Degrees in Political Economy and Government*

Torben Iversen, Harold Hitchings Burbank Professor of Political Economy (*Chair*) (*on leave fall term*)

Christopher N. Avery, Professor of Public Policy (*Kennedy School*)

Robert H. Bates, Eaton Professor of the Science of Government

Daniel P. Carpenter, Professor of Government

Suzanne J. Cooper, Assistant Professor of Public Policy (*Kennedy School*)

Jeffrey Frieden, Stanfield Professor of International Peace

Elhanan Helpman, Galen L. Stone Professor of International Trade

Michael J. Hiscox, Professor of Government

William W. Hogan, Lucius N. Littauer Professor of Public Policy and Administration (*Kennedy School*) (*ex officio*)

David I. Laibson, Professor of Economics (*on leave spring term*)

Nolan H. Miller, Assistant Professor of Public Policy (*Kennedy School*)

Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*)

Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)

Kevin M. Quinn, Assistant Professor of Government

John Mark Ramseyer, Professor of Japanese Legal Studies (*Law School*)

Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)

Kenneth Rogoff, Thomas D. Cabot Professor of Public Policy

Alvin E. Roth, George Gund Professor of Economics (*FAS*) and George Gund Professor of



### Economics and Business Administration (*Business School*)

Kenneth A. Shepsle, George D. Markham Professor of Government (*on leave 2005-06*)

Beth A. Simmons, Professor of Government

Robert N. Stavins, Albert Pratt Professor of Business and Government (*Kennedy School*)

Richard J. Zeckhauser, Frank Plimpton Ramsey Professor of Political Economy (*Kennedy School*)

The Doctoral Program in Political Economy and Government (PEG) is intended for scholars interested in academic or policy making careers requiring advanced knowledge of both Economics and Political Science. It is appropriate for students whose academic interests are not fully served by doctoral studies in Economics or Political Science alone. In Political Economy, candidates have intellectual interests in the impact of politics on economic processes and outcomes, and the reciprocal influence of economic conditions on political life. This interest is often applied to such diverse areas as international political economy, political development, political and economic institutions, institutional transition and reform, environmental resource policies, and social policy.

Candidates for the PEG degree are typically in residence for two years before undertaking the oral general examination. Satisfactory completion of the general examination is a prerequisite for writing a dissertation. Continuation of candidacy is contingent upon suitable progress and achievement during each academic year.

Applicants to this program must present their academic credentials, career plans, and a tentative outline of their proposed program research. All applicants must specify whether they are applying to the Economics track or the Political Science track. For a full description of the track requirements, visit the PEG website at [www.ksg.harvard.edu/ksgdoctoral/peg](http://www.ksg.harvard.edu/ksgdoctoral/peg). Recent scores from the aptitude portion of the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) are required, as are transcripts for all prior study and three letters of recommendation. Application forms and leaflets describing field and other requirements are available at the Graduate School of Arts and Sciences. For further information on faculty, programs, and courses in the John F. Kennedy School of Government, see the school's catalog and courses of instruction.

For more information about the doctoral program, visit the program website at [www.ksg.harvard.edu/ksgdoctoral/peg](http://www.ksg.harvard.edu/ksgdoctoral/peg).

## Psychology

**AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**



***Faculty of the Department of Psychology***

Stephen M. Kosslyn, John Lindsley Professor of Psychology (*Chair*)  
 Mahzarin R. Banaji, Richard Clarke Cabot Professor of Social Ethics (*FAS*) and Carol K. Pforzheimer Professor (*Radcliffe Institute*) (*Head Tutor*)  
 Tal D. Ben-Shahar, Lecturer on Psychology (*spring term only*)  
 Randy L. Buckner, Professor of Psychology  
 Ronald L. Butzlaff, Lecturer on Psychology, Teaching Assistant in Psychology (*fall term only*)  
 Paula J. Caplan, Lecturer on Psychology, Teaching Assistant in Psychology, Teaching Assistant in Studies of Women, Gender, and Sexuality (*fall term only*)  
 Alfonso Caramazza, Daniel and Amy Starch Professor of Psychology  
 Susan E. Carey, Henry A. Morss, Jr. and Elizabeth W. Morss Professor of Psychology (*Director of Graduate Studies*)  
 Patrick Cavanagh, Professor of Psychology  
 Christopher F. Chabris, Lecturer on Psychology  
 Kirsten Condry, Lecturer on Psychology (*spring term only*)  
 Susan Dietrich, Lecturer on Psychology (*spring term only*)  
 Erin Driver-Linn, Lecturer on Psychology (*fall term only*)  
 L. Dodge Fernald, Lecturer on Psychology  
 Daniel T. Gilbert, Harvard College Professor and Professor of Psychology  
 Richard Gramzow, Visiting Assistant Professor of Psychology (*Northeastern University*)  
 J. Richard Hackman, Edgar Pierce Professor of Social and Organizational Psychology  
 Erin E. Hannon, Assistant Professor of Psychology  
 Marc D. Hauser, Harvard College Professor and Professor of Psychology  
 Jill M. Hooley, Professor of Psychology  
 Yuhong Jiang, Assistant Professor of Psychology (*on leave spring term*)  
 Ellen J. Langer, Professor of Psychology (*on leave fall term*)  
 Richard J. McNally, Professor of Psychology  
 Wendy Mendes, Assistant Professor of Psychology  
 Ken Nakayama, Edgar Pierce Professor of Psychology  
 Matthew K. Nock, Assistant Professor of Psychology (*on leave 2005-06*)  
 Steven Pinker, Johnstone Family Professor of Psychology  
 Diego Pizzagalli, Assistant Professor of Psychology  
 Michael R. Rodriguez, Lecturer on Psychology (*spring term only*)  
 Robin S. Rosenberg, Lecturer on Psychology (*fall term only*)  
 Daniel L. Schacter, William R. Kenan, Jr. Professor of Psychology (*on leave 2005-06*)  
 Tanya Schmader, Visiting Associate Professor of Psychology (*University of Arizona*) (*spring term only*)  
 James Sidanius, Professor of Psychology and of African and African American Studies  
 Jesse Snedeker, Assistant Professor of Psychology  
 Debra A. Sorensen, Lecturer on Psychology  
 Elizabeth S. Spelke, Marshall L. Berkman Professor of Psychology  
 Jeffrey Stevens, Lecturer on Psychology (*spring term only*)  
 Philip Stone, Professor of Psychology (*on leave fall term*)  
 Daniel M. Wegner, Professor of Psychology (*on leave spring term*)



***Other Faculty Offering Instruction in the Department of Psychology***

Lee Baer, Clinical Professor of Psychology (*Medical School*)  
Max H. Bazerman, Jesse Isidor Straus Professor of Business Administration (*Business School*)  
Marla D. Eby, Assistant Professor of Psychology (*Medical School*)  
Kurt W. Fischer, Professor of Education (*Education School*)  
Howard E. Gardner, Professor of Education (*Education School*)  
Gene M. Heyman, Lecturer in Psychiatry (*Medical School*)  
Steven E. Hyman, Professor of Neurobiology (*Medical School*) and Provost of Harvard University  
Scott E. Lukas, Professor of Psychiatry (*Medical School*)  
William P. Milberg, Associate Professor of Psychiatry (*Medical School*)  
Todd Lowell Pittinsky, Assistant Professor of Public Policy (*Kennedy School*)  
Robert A. Stickgold, Assistant Professor of Psychiatry (*Medical School*)  
Alan A. Stone, Touroff-Glueck Professor of Law and Psychiatry (*Law School, Medical School*)  
Mark Tramo, Assistant Professor of Neurology (*Medical School*)  
Roberto Mangabeira Unger, Roscoe Pound Professor of Law (*Law School*)  
Jeremy M. Wolfe, Professor of Ophthalmology (*Medical School*)

For a list of other courses which automatically count for undergraduate concentration credit, please see the note under the cross-listed courses for Undergraduates and Graduates.

***Primarily for Undergraduates***

**Psychology 1. Introduction to Psychology**

Catalog Number: 0854

*Jeremy M. Wolfe (Medical School)*

*Half course (fall term). Tu., Th., 1–2:30 and a one hour section to be arranged. EXAM GROUP: 15, 16*

Surveys the scientific study of human psychology. Introduces students to topics such as perception, consciousness, development, cognition, emotion, motivation, psychopathology, decision making, and social behavior.

**Psychology 13. Cognitive Psychology**

Catalog Number: 8706

*Christopher F. Chabris*

*Half course (fall term). Tu., Th., 10–11:30 and a weekly section to be arranged. EXAM GROUP: 12, 13*

An introduction to the study of human cognition. Topics include perception, attention, memory, categorization, language, reasoning, decision-making, expertise, and intelligence. We will consider how mental processes can be measured, how they affect our everyday behavior, and the biological mechanisms that underlie them.

*Prerequisite:* Psychology 1 or permission of instructor.

**Psychology 15. Social Psychology**

Catalog Number: 4760





*Ronald L. Butzlaff (fall term) and Tanya Schmader (University of Arizona) (spring term)*  
*Half course (fall term; repeated spring term). Fall: Tu., Th., 11:30–1; Spring: Tu., Th., 2:30–4;*  
*and a one-hour section to be arranged. EXAM GROUP: Fall: 13, 14; Spring: 16, 17*

An introduction to social psychological research and theory regarding everyday behavior. Topics include: social influence, attitude change, and obedience to authority; stereotyping and prejudice; social cognition; social interaction and group processes; interpersonal attraction; prosocial behavior; and everyday human judgment. We also discuss applications of social psychology to law, politics, education, and health.

### **Psychology 16. Developmental Psychology**

Catalog Number: 1483

*Jesse Snedeker*

*Half course (spring term). Tu., Th., 10–11:30 and a weekly section meeting to be arranged.*

*EXAM GROUP: 12, 13*

Introduces theory, empirical research, and applied issues in developmental psychology. Focuses on cognitive, linguistic, social and emotional aspects of development across the life course, with emphasis on infancy and childhood. Includes child observation and testing.

*Prerequisite:* Psychology 1 or equivalent.

### **Psychology 18. Abnormal Psychology**

Catalog Number: 8560

*Diego Pizzagalli*

*Half course (fall term). Tu., Th., 11:30–1 and a weekly section to be arranged. EXAM GROUP: 13, 14*

Introduction to the study of psychopathology. Focuses on theoretical models of abnormal behavior as they relate to the definition, etiology, and treatment of mental disorders. Diagnostic classification, behavioral, and biological features of the major syndromes of psychopathology emphasized.

*Prerequisite:* An introductory course in psychology.

### **\*Psychology 910r. Supervised Research**

Catalog Number: 1472

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Independent empirical research (laboratory or field) conducted under the supervision of a departmental faculty member. Research report or equivalent paper required. Apply for admission through the Psychology Undergraduate Office. Students may take course only once for honors concentration credit, up to twice for non-honors concentration credit, and up to three times for College credit.

### **Psychology 950. Psychology Live!**

Catalog Number: 5195

*Mahzarin R. Banaji and members of the Department.*

*Half course (spring term). Th., 1–3:30. EXAM GROUP: 15, 16, 17*

Psychology faculty will each lecture about their main area of research: its history, methods, and discoveries, focusing on contemporary research topics including perception, memory, cognitive



development, animal cognition, social cognition, group behavior, consciousness, language, and psychopathology. Includes a panoramic view of methods to study the mind, brain and behavior involving neuroscientific techniques, evolutionary psychology, web-based experimentation, traditional laboratory experiments, and field studies. Emphasis is primarily human, from infants to older adults, as well as primates.

*Prerequisite:* Psychology 1.

**\*Psychology 970. Contemporary Issues in Psychology: Intensive Cross-level Analyses**

Catalog Number: 8008

*Mahzarin R. Banaji and members of the Department*

*Full course. Hours to be arranged.*

Examines selected issues and phenomena addressed in contemporary psychological research. Special attention to examining topics from a variety of perspectives, to reading primary sources in the field, and to developing thinking, writing, research, and discussion skills. This tutorial, or Psychology 971, is required of concentrators upon entering the concentration, normally in the sophomore year. Sophomore Essay required. Letter-graded.

*Prerequisite:* Psychology 1 or concurrent enrollment.

**\*Psychology 971. Contemporary Issues in Psychology: Intensive Cross-level Analyses**

Catalog Number: 3498

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Examines selected issues and phenomena in contemporary psychological research. Examines topics from a variety of perspectives; reads primary sources in the field; develops thinking, writing, research, and discussion skills. Students must contact the Psychology Undergraduate Office before Study Cards are due for section assignment. Sophomore essay required. Letter graded.

*Note:* Required in lieu of Psychology 970 for students entering the concentration after the first term of the sophomore year, and an additional concentration elective is required to fulfill the full-year tutorial requirement.

*Prerequisite:* Psychology 1 or concurrent enrollment.

**\*Psychology 980bb. Aging and Cognition**

Catalog Number: 0381

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

Highlights recent work in cognitive psychology and neuroscience to understand the cognitive and neural changes that accompany healthy aging. Discusses how the integration of behavioral testing, functional neuroimaging (e.g., fMRI), and structural imaging clarifies the effects of healthy aging on perception, language, memory, and emotion. Concludes with an examination of age related diseases (e.g., Alzheimer's), allowing a discussion of the extent to which these disease processes differ from those of healthy aging.

**\*Psychology 980cc. Emotions and Social Interaction**

Catalog Number: 0448

*Mahzarin R. Banaji and members of the Department*



*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

This course will survey theories or approaches to emotion, using them to understand areas of research from a social-psychological perspective. Some of the topics include sex roles/gender effects and emotion, including masculine identity and restrictive emotionality; gender and emotion in different cultures; smiling, crying, and other expressions of positive and negative emotions; affective empathy and empathic accuracy; and deception/lying, especially in close or personal relationships.

**[\*Psychology 980dd. The Neuroscience of Faces]**

Catalog Number: 0478

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). Hours to be arranged.*

Faces inform humans and other primates about individual identity, emotional state, and direction of gaze and attention. We will examine facial expression of emotion in people, review visual processing in primates, and read about responses of face-selective neurons in extrastriate cortex.

*Note:* Expected to be given in 2006–07.

**\*Psychology 980ee. Psychology of Prejudice and Stereotyping**

Catalog Number: 0498

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Empirical study of prejudice and stereotyping. Issues addressed include: cognitive, affective, and motivational origins of stereotyping and prejudice; consequences of prejudice and stereotyping on holders and targets; and scientifically-based means of prejudice reduction.

**\*Psychology 980ff. Social Judgment**

Catalog Number: 0499

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Understanding others is one of the most challenging and important tasks to which people regularly devote mental resources. This course will examine the processes by which such social judgments and evaluations are made. We will consider the mechanisms of social judgment, including expectancies, stereotypes, heuristics, memory, and emotion, as well as important domains of social judgment, such as causal attribution, social comparison, and perspective taking.

**[\*Psychology 980gg. The Unintentional Decision Maker]**

Catalog Number: 0558

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). Hours to be arranged.*

When we think we're making our own decisions, who or what is really in charge? Explores the distinction between implicit and explicit processes as they affect behavior. Employs that distinction in examining roles that memory, the self, and emotion play in decision-making. Finally considers theories about unintended roots of decisions and actions. Individual research proposals will address either basic or applied social psychological questions in areas such as business and public policy.



*Note:* Expected to be given in 2006–07.

*Prerequisite:* Psychology 970 or 971.

**\*Psychology 980hh. Cognitive Neuroscience of Human Learning and Memory**

Catalog Number: 0393

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Memory is not a unitary faculty. Rather, it consists of multiple functional systems, each with its own processing characteristics and neurobiological substrates. This seminar will highlight recent research regarding the cognitive and neural architecture of various forms of memory: working, episodic, semantic, false, and non-declarative. Emphasis on studies utilizing functional magnetic resonance imaging. The course will conclude with an examination of how the cognitive and neural architectures of memory change with healthy aging.

**\*Psychology 980ii. Thought and Language**

Catalog Number: 2592

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). Th., 1:30–4. EXAM GROUP: 15, 16, 17*

What is the relationship between language and thought? This question has fascinated many, and continues to be a point of debate across multiple disciplines (anthropology, philosophy, linguistics, and psychology). Recently there is a burgeoning of scientific research trying to explicate and demonstrate how language influences thought. This course surveys the research and asks how recent and future experiments have and could shed light upon the matter.

**\*Psychology 980jj. Confining the Sexually Dangerous: Psychological and Legal Issues**

Catalog Number: 2751

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

This course examines issues arising from attempts to confine those considered sexually dangerous, including rapists, pedophiles, statutory offenders, and others who violate social, religious, or other norms. Topics include the history of attempts; conceptions of dangerousness; psychological research into theories of causation and forms of treatment; and statutory, judicial, and other legal efforts. The course considers psychological and legal research and case studies.

**\*Psychology 980kk. Psychopaths and Psychopathy: Psychological and Legal Issues**

Catalog Number: 2769

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). Th., 5:30–7:30 pm. EXAM GROUP: 18*

This course focuses on criminal and successful white-collar and street psychopaths. Topics include definitions of psychopathy and its relation to sociopathy and antisocial personality disorder; psychological research into causation and treatment; similarities and differences among male and female psychopaths; social and media reaction; and statutory, judicial, and other legal responses. The course considers psychological and legal research and case studies.

**\*Psychology 980ll. Developmental Psychopathology**

Catalog Number: 2775



*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). M., 5:30–7:30 pm. EXAM GROUP: 9*

This course presents an overview of mental disorders in childhood and adolescence. Topics include internalizing problems (anxiety, depression, suicide, and somatic disorders), externalizing problems (conduct disorder and ADHD), and autism. Theoretical perspectives, diagnostic criteria, etiology, treatment, and risk and protective factors are examined.

*Note:* Preference will be given to those who have completed Psychology 18.

**\*Psychology 980mm. Demons and Muses: Understanding the Inhabitants of the Creative Mind**

Catalog Number: 2829

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). M., 5:30–7:30 pm. EXAM GROUP: 9*

This course will address the developmental, biological, phenomenological, and social aspects of creativity, including the interface between creativity and psychopathology. Empirical literature and case studies of famous artists and scientists enhance our understanding of creativity.

**[\*Psychology 980nn. Personality and Leadership through Biography]**

Catalog Number: 5838

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). Hours to be arranged.*

The course explores the idiographic approach to the study of leadership, contrasting it with the nomothetic approach. Drawing on the theoretical frameworks introduced by the likes of Sigmund Freud, Erik Erikson, Gordon Allport, and Abraham Maslow, the course will attempt to generate general theories of leadership from the study of particular leaders. Some of the individuals that will be studied include Thomas Jefferson, Katherine Graham, Maria Montessori, and Lee Kuan Yew.

*Note:* Expected to be given in 2006–07.

**\*Psychology 980oo. Psychology of Romantic Relationships**

Catalog Number: 0820

*Mahzarin R. Banaji and members of the Department*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

This course is an exploration of romantic relationships. Examples of topics to be covered include the biological bases of attraction; the end of relationships through a break-up, divorce, or death; relationship satisfaction; deception; gender roles; same-sex relationships; and internet dating.

The course emphasizes examination of the empirical literature and case studies.

**[\*Psychology 980v. The Insanity Defense]**

Catalog Number: 6942

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). Hours to be arranged.*

Explores, through case materials and empirical research, the insanity defense in the legal system and its impact on psychology, law, and society. Topics include history of the defense; the relation among psychopathology, insanity, and diminished capacity; effects of different standards for determining insanity; arguments for its retention, abolition, and revision; media and other



responses; controversies surrounding pre- and post-conviction commitment; and the roles of psychologists and lawyers in defining, implementing, and questioning the defense.

*Note:* Expected to be given in 2006–07.

**\*Psychology 980y. Social Psychological Approaches to Mental Health**

Catalog Number: 2699

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Examines the rich interplay in theory and research between clinical and social psychology, focusing on the role of social psychological processes in the development and maintenance, perception and diagnosis, and clinical treatment of psychopathological disorder. Topics covered will include social components of anxiety and mood disorders, the relationship between self-esteem and aggression, social cognitive processes in counseling and therapy, and the influence of culture on diagnosis and treatment of mental disorders.

**\*Psychology 985. Junior Tutorial: Honors Thesis Preparation**

Catalog Number: 2343

*Mahzarin R. Banaji and members of the Department*

*Half course (fall term; repeated spring term). Fall: Hours to be arranged. Spring: W., at 4.*

Supervised reading and research normally resulting in an honors thesis prospectus. Supplemental group meetings to discuss topic and adviser selection, methodology, prospectus writing, and the prospectus meeting. Admission to course via application (available in Psychology Undergraduate Office). Graded SAT/UNS. Full prospectus or term paper required.

*Note:* Normally limited to junior psychology concentrators.

*Prerequisite:* Advanced methods course or concurrent enrollment.

***Psychology 987. Junior Tutorials: Mind/Brain/Behavior***

Interdisciplinary seminars that address current research topics in mind/brain/behavior from a variety of perspectives. Enrollment preference given to juniors in Mind/Brain/Behavior tracks.

**\*Psychology 987b. Ear, Brain, and Music**

Catalog Number: 7107

*Mark Tramo (Medical School)*

*Half course (spring term). W., 3:30–5:30. EXAM GROUP: 8, 9*

This seminar course takes a multidisciplinary approach to understanding neural systems that govern music perception and cognition. Students master relevant topics in psychophysics, cognitive psychology, neurophysiology, neuroanatomy, and neurology. Individual seminars are thematic (e.g., melody and harmony perception; talent and creativity). The course also provides students with the opportunity to develop oral presentation skills and to learn how to read science literature critically.

**\*Psychology 987c. Multidisciplinary Perspectives on Drug Policy**

Catalog Number: 1082

*Alfonso Caramazza and members of the Department*

*Half course (fall term). Th., 7:30–9:30 pm. EXAM GROUP: 18*





Apply perspectives of law, psychiatry, psychology, epidemiology, and sociology to problems of substance abuse, including alcohol and drugs. Consider fundamental public policy choices in the criminal justice and health care systems, examine the working relationships between these systems, and explore strategies to address substance abuse. Technical readings from neurobiology, psychiatry, psychology, public health, public policy, law, and history provide an empirical framework. Readings from the personal literature of addiction and recovery provide deeper understanding.

**\*Psychology 987f. The Biology of Conscious States: Waking, Sleeping, and Dreaming**

Catalog Number: 3372

*Robert A. Stickgold (Medical School) and members of the Department*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*

Focuses on waking, sleeping, and dreaming as examples of conscious states in both humans and animals. Original papers and books by Allan Hobson (*The Dreaming Brain*) and Antonio Damasio (*The Feeling of What Happens*) form the background for discussions of waking, sleeping, and dreaming from the perspectives of neurology, physiology, psychology, and cognitive neurosciences. Discusses various approaches to understanding the functions of sleep and wake (consciousness) and reviews several theories on the topic.

**\*Psychology 987g. Theories of Violence**

Catalog Number: 7611 Enrollment: Limited to 20.

*Alan A. Stone (Law School, Medical School)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Consider how law and science “construct” violence. Review clinical examples of violence (videotapes of a serial killer, a sexually violent predator, and a case of maternal infanticide) and the responses of law enforcement and the criminal justice system. Then examine the spectrum of scientific theories that seek to explain human violence and their relevance to law.

**\*Psychology 987h. Addiction, Behavior, and Choice**

Catalog Number: 5541

*Gene M. Heyman (Medical School)*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

What is addiction? Applies epidemiological, ethnographic, biological, and behavioral research to questions concerning how drug users behave. Topics include the history of opiate use, drug psychopharmacology, behavioral economic analyses of addiction, genetic influences on drug use, obsessive behavior, brain plasticity, and ways of distinguishing between voluntary and involuntary behaviors.

**\*Psychology 987i. The Science of Happiness**

Catalog Number: 4100

*Alfonso Caramazza and members of the Department*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Focuses on the science of happiness, integrating findings from positive psychology, psychiatry, behavioral genetics, neuroscience, and behavioral economics. Begins with a brief history of ideas on happiness from Aristotle to Kahneman. Considers the genetics of happiness including the notion of a biologically determined hedonic set point, the brain’s pleasure circuitry, and the





mind's power to frame events positively, a tool used in cognitive therapies. Questions whether pleasure and happiness are our purpose.

**\*Psychology 987k. Neurobiological Approaches to Conscious Experience**

Catalog Number: 7336

*Alfonso Caramazza and members of the Department*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

What are the neural correlates of consciousness (NCC)? Can we understand the basis of conscious experience itself? Renowned neuroscientists from Harvard and other universities will lead highly interactive seminars addressing topics including, but not limited to: selective attention, change blindness, binocular rivalry, the binding problem, the modularity of visual function, recursive neural networks and the emergence of conscious experience, and distinctions between phenomenal and access consciousness. (Visit [mbb.harvard.edu](http://mbb.harvard.edu) for a list of speakers and topics.)

***Senior Tutorial***

**\*Psychology 990. Senior Tutorial: Honors Thesis in Psychology**

Catalog Number: 3553

*Mahzarin R. Banaji and members of the Department*

*Full course. Hours to be arranged.*

Individual supervised thesis research supplemented with occasional group meetings in the spring term, Thursdays at 4, to discuss major aspects of the thesis process (e.g., organizing, conducting, and presenting research). Graded Sat/Unsat. Prospectus meeting required for fall term credit, as well as a paper for students who divide course at mid-year. Submission of thesis required for full year credit.

*Note:* Required of and limited to senior honors psychology concentrators.

*Prerequisite:* Advanced methods course.

**\*Psychology 992. Senior Tutorial: Honors Thesis (Mind/Brain/Behavior)**

Catalog Number: 4990

*Mahzarin R. Banaji and members of the Department*

*Full course. Hours to be arranged.*

Supervised research leading to the submission of the senior honors thesis. Individual work with thesis adviser is supplemented by participation in Mind/Brain/Behavior Interdisciplinary Research Workshop as well as by optional but highly recommended occasional group meetings in the spring term, Thursdays at 4. Graded SAT/UNSAT. Prospectus meeting required for fall term credit; paper also required for students who divide course at mid-year. Submission of thesis required for full-year credit.

*Note:* Required of and limited to seniors in the MBB tracks in psychology, who will take this tutorial in lieu of Psychology 990.

*Prerequisite:* An advanced methods course.

**\*Psychology 995. Senior Seminar: General Psychology**

Catalog Number: 5201 Enrollment: Limited to 12.

*L. Dodge Fernald*



*Half course (fall term; repeated spring term). M., 1–3. EXAM GROUP: 6, 7*

A capstone course aimed at an integrated review of the field through seminar discussions, oral reports, field experience, practitioner interviews, and independent research projects. Focus is upon the perspectives and prescriptions in contemporary psychology.

*Note:* Designed for senior concentrators not engaged in an honors thesis.

### ***Cross-listed Courses***

[Biological Sciences 50. Genetics and Genomics](#)

[Biological Sciences 51. Integrative Biology of Organisms](#)

[Biological Sciences 53. Evolutionary Biology](#)

[Biological Sciences 80. Behavioral Neuroscience](#)

[Science B-29. Evolution of Human Nature](#)

[Science B-44. Vision and Brain](#)

[Science B-60. Origins of Knowledge](#)

[Science B-62. The Human Mind](#)

[Social Analysis 43. Psychological Trauma](#)

### ***For Undergraduates and Graduates***

#### **[Psychology 1001. Human Nature]**

Catalog Number: 1781

*Steven Pinker and Roberto Mangabeira Unger (Law School)*

*Half course (spring term). Hours to be arranged.*

Theories of human nature and their implications. Is there a human nature? If so, what is it? What competing images of humanity are found in religion, art forms, social and political theories, and psychology, biology, and neuroscience? Can we change what we are? Is law a lever of behavior modification with a theory of human nature as its fulcrum? How might new approaches to human nature affect the organization of the university?

*Note:* Expected to be given in 2006–07. Jointly offered with the Law School as 38220-1/38220-32.

#### **Psychology 1104. Psychology of Economic Decision Making**

Catalog Number: 1700

*Jeffrey Stevens*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines the role of psychological mechanisms in decision-making contexts such as rational choice, intertemporal choice, cooperation, fairness, punishment, and signaling. Focuses on the effects of learning, memory, attention, self-control, framing, and theory of mind on choice behavior in both humans and nonhuman animals.

#### **\*Psychology 1152r. Animal Cognition: Laboratory**

Catalog Number: 1805 Enrollment: Limited to 12.

*Marc D. Hauser*

*Half course (fall term; repeated spring term). Fall: M., 5–7:30 pm plus 10-12 hours of lab work per week; Spring: M., 5–7 pm plus 10-12 hours of lab work per week. EXAM GROUP: 9*



An introduction to issues, laboratory techniques, and field methodology in animal cognition. Students develop and pilot research projects. Empirical research is accompanied by a critical reading and discussion of papers on such topics as language evolution, concept acquisition, acoustic perception, and domain-specific knowledge.

*Note:* Preference given to psychology undergraduates and students in the Mind/Brain/Behavior program. This course requires a TB test prior to working in the lab, so please come to first meeting with TB form filled out by your doctor.

*Prerequisite:* Science B-29 or BS 57 or permission of instructor.

### **[Psychology 1201. Psychopharmacology]**

Catalog Number: 6717

*Scott E. Lukas (Medical School)*

*Half course (spring term). Hours to be arranged.*

An introduction to how drugs affect mood, sensation, consciousness, and other psychological and behavioral functions in both healthy and disease states. Introduces concepts in neuroscience and pharmacology to understand how drugs are used to treat psychiatric disorders and why individuals use recreational drugs. Covers all CNS drugs, including antidepressants, antipsychotics, alcohol, and drugs of abuse. Debates controversial topics such as research with psychiatric populations, diagnosing ADHD, teenage suicide, marijuana legalization, and needle exchange programs.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Introductory Psychology.

### **Psychology 1205. Stimulant Drugs: From Neurobiology to Ethics**

Catalog Number: 4056

*Steven E. Hyman*

*Half course (fall term). Tu., Th., 1-2:30. Lectures planned for Tuesdays and some Thursdays, section meetings and occasional guest lectures or debates on Thursdays. EXAM GROUP: 15, 16*

The use of stimulants in the US is both common and controversial. Stimulants are effective for both the treatment of disabling disorders and the enhancement of cognitive function in people who are well. Ethical and policy issues include the undermining of personal responsibility, fairness, coercion, and effects on personal identity. The course will examine these issues as well as epidemiology, clinical trials data, and, to a substantial degree, the neural basis of stimulant action.

*Prerequisite:* BS 80 recommended but not required. Optional additional sections on basic concepts of neuroscience may be scheduled for those who have not had BS80 or the equivalent.

### **Psychology 1302. Psychology of Language**

Catalog Number: 0295

*Susan Dietrich*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Explores psychological processes underlying language. Topics include: origins of language, nature and structure of languages, language acquisition in children, and the neurological and physiological processes involved in language expression and comprehension. Video case studies of patients with various language impairments will be examined.



**Psychology 1304. Cognitive Neuropsychology**

Catalog Number: 2419

*Alfonso Caramazza*

*Half course (fall term). M., 2–4:30. EXAM GROUP: 7, 8, 9*

Examines the patterns of linguistic, perceptual, and cognitive impairments resulting from brain damage. Focuses on the implications of various deficits on theories of normal language and cognitive processing and the functional organization of the brain.

*Prerequisite:* Psychology 1.

**\*Psychology 1305. Cognitive Genetics**

Catalog Number: 8282

*Christopher F. Chabris*

*Half course (spring term). M., 3–6. EXAM GROUP: 8, 9*

An introduction to the role of genes and genetic variation, and their interactions with the environment, in human cognition and (mis)behavior. The focus will be on how genes influence behavior through specific molecular, neural, and cognitive mechanisms. Areas covered will include cognitive control, language, memory, intelligence, and psychopathology. Ethical and public policy issues of cognitive genetics research will be considered.

*Prerequisite:* No background in genetics is required; however, students should have taken at least one course in psychology or neurobiology, or receive permission of instructor.

**\*Psychology 1356r. Laboratory in Language Research**

Catalog Number: 5158

*Alfonso Caramazza*

*Half course (spring term). F., 2–4 plus a one- hour lab meeting and 8 hours a week of laboratory time. EXAM GROUP: 7, 8*

An introduction to issues and methods in language research. Students learn to design and carry out experiments on language and cognition. They also learn how to analyze, interpret, and report experimental results.

*Prerequisite:* Psychology 13 or Linguistics 88.

**\*Psychology 1471. Psychology of Music: Concentration Seminar**

Catalog Number: 2407

*Erin E. Hannon*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Draws from cognitive, developmental, social and neuroscience perspectives to examine the psychology of music. Topics include perception and production, origins and functions, emotional communication, musical predispositions and development, creativity and talent, and the effects of musical training.

*Prerequisite:* An Introductory Psychology course or permission of instructor.

**\*Psychology 1472. Perceiving People: Concentration Seminar**

Catalog Number: 2972

*Ken Nakayama*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

The goal of this laboratory course is to study the visual basis of person perception. In supervised



individual or small group projects, students will have access to state-of-the-art techniques to manipulate facial images and animations of human movement. These methods allow new opportunities to study perceived identity, gender, attractiveness, and other meaningful social characteristics.

### **Psychology 1501. Social Psychology of Organizations**

Catalog Number: 0823 Enrollment: Limited to 45.

*J. Richard Hackman*

*Half course (fall term). Tu., Th., 8:30–10; and a 1.5 hour weekly section meeting to be arranged.*

*EXAM GROUP: 10, 11*

Surveys interpersonal and group processes in organizational settings. Includes how groups and organizations affect individual members and vice versa; interpersonal and group processes; work team behavior and performance; power dynamics in organizations; intergroup relations; the leadership of groups and organizations. Group project required.

*Prerequisite:* Psychology 1.

### **[\*Psychology 1503. Psychology and Law]**

Catalog Number: 3707 Enrollment: Limited to 140.

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*Half course (fall term). Hours to be arranged.*

Compares legal and psychological approaches to human behavior and considers their interaction. Includes criminal profiling, trials and juries, insanity defense, eyewitness identification, commitment, child custody, human experimentation, punishment. Focuses on case studies and on research.

*Note:* Expected to be given in 2006–07. Graduate and professional students and students who have taken Psychology S-1870 not admitted.

### **Psychology 1504. Positive Psychology**

Catalog Number: 8646

*Tal D. Ben-Shahar*

*Half course (spring term). Tu., Th., 11:30–1 and a weekly section to be arranged. EXAM GROUP: 13, 14*

The course focuses on the psychological aspects of a fulfilling and flourishing life. Topics include happiness, self-esteem, empathy, friendship, love, achievement, creativity, music, spirituality, and humor.

### **Psychology 1508. The Psychology of Leadership**

Catalog Number: 7908

*Tal D. Ben-Shahar*

*Half course (spring term). M., W., (F)., at 11 and a weekly section to be arranged. EXAM GROUP: 4*

How can leaders—in the business sector, politics, or education—create an environment that facilitates growth? Topics include transformational leadership, personal identity, change, ethics, peak experience and peak performance, motivation, and systems thinking.



**[Psychology 1509. Law and Mind]**

Catalog Number: 5294

*Bruce Hay (Law School)*

*Half course (spring term). Hours to be arranged.*

Examines intersections between law, cognition, and social psychology. Topics include eyewitness testimony; judgment under uncertainty; conformity, obedience and altruism; attribution of responsibility; and prejudice.

*Note:* Expected to be given in 2007–08. Offered jointly with the Law School as 41340-31.

*Prerequisite:* No previous study of law necessary.

**\*Psychology 1550. Leadership Research and Theory**

Catalog Number: 0581

*Todd Lowell Pittinsky (Kennedy School)*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

This seminar covers the major psychological theories and research on leadership with particular focus on contributions from social and organizational psychology. Our readings cover a wide range of leadership topics, with a special focus on the integration of findings from psychology with findings from other disciplines.

*Prerequisite:* Psychology 1.

**\*Psychology 1553. Positive Intergroup Relations**

Catalog Number: 0585

*Todd Lowell Pittinsky (Kennedy School)*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

In this seminar we explore the major theoretical and empirical contributions that psychology has made to understanding, and fostering, harmonious relations across social groups. We focus on cross-ethnic and cross-national relations, but also consider research and theory on positive intergroup relations across religious, political, linguistic, economic, gender, and sexual orientation groups.

*Prerequisite:* Psychology 1.

**\*Psychology 1557. Self and Identity: Seminar**

Catalog Number: 0491

*Erin Driver-Linn*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Examines what William James called “the most puzzling puzzle with which psychology has to deal.” Emphasizes social psychological research, draws 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?

**[\*Psychology 1563. Psychological Themes in Text: Seminar]**

Catalog Number: 9275

*Philip Stone*

*Half course (spring term). Hours to be arranged.*



Reviews research on psychological themes in texts, including projective tests, survey responses, focus-group discussions, campaign speeches, editorials, published correspondence, children's stories, popular song lyrics, and corporate reports. Computer-based procedures for analyzing themes, including sentiments, attitudes, cognitive complexity, and attributions.

*Note:* Expected to be given in 2006–07. Open to students in all fields. No prior psychology courses presumed.

**[\*Psychology 1565. Conscious Will]**

Catalog Number: 4113 Enrollment: Limited to 20.

*Daniel M. Wegner*

*Half course (fall term). Hours to be arranged.*

What causes the feeling that we cause our actions? Examines questions of free will vs. determinism, mind vs. body by probing anomalies of will, from phantom limbs and Ouija boards to hypnosis and spirit possession.

*Note:* Expected to be given in 2006–07. Preference given to undergraduate concentrators.

*Prerequisite:* Either Psychology 1 or Psychology 15.

**\*Psychology 1571a (formerly \*Psychology 2670a). Decision Making and Perceived Control I: Concentration Seminar**

Catalog Number: 1193

*Ellen J. Langer*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Decision theory and research (includes the illusions of predictability and control; risk-taking; learned helplessness; mindfulness) examined in applied contexts, with special focus on healthy organizations. Discussion centers on questions of if, when, why, and how people make decisions.

*Note:* Open to qualified undergraduates.

**[\*Psychology 1571b (formerly \*Psychology 2670b). Decision Making and Perceived Control II: Concentration Seminar]**

Catalog Number: 3434

*Ellen J. Langer*

*Half course (spring term). Hours to be arranged.*

A deeper exploration of the theoretical and experimental issues, pertaining to decision making and mindfulness, raised in Psychology 2670a. Experimental research required.

*Note:* Expected to be given in 2006–07. Open to qualified undergraduates.

*Prerequisite:* Psychology 2670a.

**\*Psychology 1572. Stress and Health: Concentration Seminar**

Catalog Number: 0059 Enrollment: Limited to 15.

*Wendy Mendes*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

This seminar will explore issues at the intersection of psychology and medicine, specifically how psychological states, such as stress, motivation, and emotion affect functioning of biological systems including mental and physical health and the etiology and progression of disease states.

*Note:* Limited to undergraduates.

*Prerequisite:* Psychology 1.





**\*Psychology 1573. Future Happiness: Concentration Seminar**

Catalog Number: 4649

*Daniel T. Gilbert*

*Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8*

Do people know what will make them happy? This seminar draws on psychology, philosophy, cognitive neuroscience, and behavioral economics to explore how and how well human beings can predict the hedonic consequences of future experiences.

**Psychology 1603. Adolescent Development**

Catalog Number: 6916

*Debra A. Sorensen*

*Half course (fall term). Tu., Th., 10–11:30 and a one hour section to be arranged. EXAM GROUP: 12, 13*

Adolescence is a fascinating time of life because of the vast physical and psychological changes that occur. Examines the biological changes that accompany puberty, cognitive development, identity formation, parent and peer relationships, gender, sexuality, cultural context, and ethnicity. Problems of adolescence, such as substance abuse, eating disorders, and risky behavior will be considered as well.

**Psychology 1607 (formerly Psychology 1202 and Psychology 1604). Cognitive Development, Education, and the Brain**

Catalog Number: 9014

*Kurt W. Fischer (Education School) and Howard E. Gardner (Education School)*

*Full course (indivisible). Fall: M., W., 10–12; Spring: M., W., 12–2. EXAM GROUP: Fall: 3, 4; Spring: 5, 6*

An integrative survey of knowledge and research in cognitive development and neuroscience from infancy through early adulthood. Topics include normal cognitive and emotional development and brain development and their relation to learning and education.

*Note:* Offered jointly with the Graduate School of Education as HT 100.

**Psychology 1608. Children and Television: Media Influences on Child Development**

Catalog Number: 2596

*Kirsten Condry*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

American children watch an average of 3-5 hours of television daily, more than any other activity besides sleeping. We examine how television and other mass media affect children's development. Direct effects include issues related to program content, for example how TV violence affects social, emotional and cognitive development, and how children understand advertising. Indirect effects are concerned with the activity of television viewing, for example the link between watching TV and childhood obesity.

**\*Psychology 1652r. Laboratory in Early Cognitive Development**

Catalog Number: 9913

*Elizabeth S. Spelke*

*Half course (fall term; repeated spring term). Fall: Tu., at 9, F., at 4; Spring: Tu., 2–4. EXAM GROUP: Fall: 9, 11; Spring: 16, 17*



An introduction to issues and methods in the study of cognition in human infants and young children. Students develop their own research projects, evaluate the ongoing and proposed projects of other students, and read and discuss papers on the development of perception and reasoning about objects, agents, space, and number.

**\*Psychology 1655. Conceptual Development: Research Seminar**

Catalog Number: 1865

*Susan E. Carey*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Students participate in research on conceptual development and language acquisition. Each student has responsibility for a project. Weekly meeting to discuss assigned readings relevant to ongoing projects. Weekly meeting to discuss student projects and readings relevant to them. Ten hours a week commitment (includes lab meeting).

*Note:* Open to undergraduates seeking research experience, especially in preparation for undergraduate theses.

**[\*Psychology 1658. Infancy: Seminar]**

Catalog Number: 0197 Enrollment: Limited to 15.

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*Half course (fall term). Hours to be arranged.*

Examines the premise that human infants have evolved adaptations for eliciting care and gathering information, thus increasing their chances of survival. Topics include crying and communication, sleep and feeding, memory, face and voice recognition, categories, theory of mind, imitation, learning mechanisms, historical and cross-cultural aspects of infant care, and implications for social policy.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Psychology 16 or SB 60 or permission of instructor.

**\*Psychology 1659. Social Development: Seminar**

Catalog Number: 6880 Enrollment: Limited to 15.

*Debra A. Sorensen*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

This seminar explores current research regarding infant and child social development. Topics include face recognition, attachment, self awareness, social cognition, interpersonal communication, shyness, moral development, gender identity, family and peer relationships, and other aspects of social development.

**Psychology 1671 (formerly Psychology 1606). Language Acquisition: Concentration Seminar**

Catalog Number: 4632

*Jesse Snedeker*

*Half course (fall term). Tu., Th., 10–11:30 and a weekly section meeting to be arranged. EXAM GROUP: 12, 13*

Introduces theories of language acquisition. Topics include early speech perception; word learning; acquisition of phonology, morphology, and syntax; development of pragmatic and



metalinguistic knowledge; developmental changes in language comprehension and production; and adult language processing.

**[Psychology 1701. Personality Psychology]**

Catalog Number: 4538

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*Half course (spring term). Hours to be arranged.*

Introduction to personality psychology. Reviews the major developments and debates in the area of personality. Covers a variety of approaches to understanding individual differences, including temperament, traits (factor analytic models), cognitive models, behavioral genetics, neurobiological processes, and person situation interaction.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* An introductory course in psychology, preferably Psychology 1.

**Psychology 1703. Human Sexuality**

Catalog Number: 7683

*Michael R. Rodriguez*

*Half course (spring term). M., W., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 6, 7*

Examines the development and expression of sexual behavior as a complex psychological, socio-cultural, biological, and historical phenomenon. Students explore topics that include: research methods in human sexuality; biological bases of sexual behavior; sexual arousal and response; gender identity and gender roles; attraction and love; sexual orientation; sexuality across the life cycle; sexual dysfunctions and sex therapy; safer sex and STD prevention; atypical sexual variations; and sexual coercion and abuse and their treatment.

*Note:* Expected to be omitted in 2006–07.

**Psychology 1705. Psychology of Sex and Gender**

Catalog Number: 2996

*Paula J. Caplan*

*Half course (fall term). Tu., Th., 10–11:30 and a one-hour section to be arranged. EXAM GROUP: 12, 13*

Critical examination of how researchers and theorists have studied sex differences in the brain (cognition, neuroscience), emotions, and interpersonal interactions (including human sexuality).

**[\*Psychology 1756. Personality Psychology and Organizations: Seminar]**

Catalog Number: 7835

*Tal D. Ben-Shahar*

*Half course (spring term). Hours to be arranged.*

How can the study of the person inform our understanding of the workplace? Course examines personality theories as they relate to leaderships, motivation, performance, and well-being in the context of an organization.

*Note:* Expected to be given in 2006–07.

**[Psychology 1801. Anxiety Disorders]**

Catalog Number: 4906



*Richard J. McNally*

*Half course (spring term). Hours to be arranged.*

Concerns current theory and research on the etiology and treatment of anxiety disorders (e.g., panic disorder, obsessive-compulsive disorder, social phobia, post-traumatic stress disorder). Cognitive, behavioral, and biological approaches are emphasized.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Psychology 18.

**[Psychology 1808. Neurobiological Aspects of Psychopathology]**

Catalog Number: 9917

*Diego Pizzagalli*

*Half course (spring term). Hours to be arranged.*

A neurobiological perspective to the study of psychopathology. Integrates anatomical, chemical, and electrical data to characterize affective and cognitive dysfunctions. Includes sections on neuroanatomy, animal models, and current evidence on the neuroanatomical basis of psychopathology.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Psychology 18 or Biological Sciences 80 recommended.

**[\*Psychology 1851. Introduction to Clinical Science]**

Catalog Number: 6392 Enrollment: Limited to 15.

*Jill M. Hooley*

*Half course (fall term). Hours to be arranged.*

Extends the material covered in Psychology 18 in a more clinical direction. Provides students with an opportunity to approach issues in clinical psychology from a scientist-practitioner perspective. Focuses on how research-based approaches to the study and treatment of psychopathology can translate into high quality ethical care for patients with major psychiatric problems.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Psychology 18, and at least one other course in psychopathology strictly required.

**[\*Psychology 1853. Self-Destructive Behaviors]**

Catalog Number: 0615

*Matthew K. Nock*

*Half course (spring term). Hours to be arranged.*

Why do some individuals intentionally engage in behaviors that cause themselves direct bodily harm, such as suicide and self-mutilation? We explore past and current models for understanding self-harm behaviors. We consider the classification, etiology, assessment, and treatment of self-harm behaviors from psychological, developmental, contextual, and biological perspectives.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Psychology 1 and Psychology 18.

**[Psychology 1854. Schizophrenia: Seminar](#)**

Catalog Number: 2771 Enrollment: Limited to 20.

*Jill M. Hooley*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*



Examines schizophrenia and schizophrenia-spectrum disorders from biological, psychological, and psychosocial perspectives. Focuses on early (e.g., Kraepelin) and modern (e.g., DSM-IV) perspectives, clinical case descriptions of the disorder, and recent theoretical and empirical developments in understanding etiology, phenomenology, and treatment.

*Prerequisite:* Psychology 18.

**\*Psychology 1855. Mood Disorders**

Catalog Number: 6867

*Diego Pizzagalli*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

We examine current theory and research on the etiology, phenomenology, and treatment of mood disorders, particularly depressive disorders. Cognitive, behavioral, and biological approaches are emphasized.

*Prerequisite:* Psychology 18.

**[\*Psychology 1857 (formerly \*Psychology 1803). Eating Disorders: Seminar]**

Catalog Number: 4992 Enrollment: Limited to 15.

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*Half course (spring term). Hours to be arranged.*

Examines the diagnosis, epidemiology, etiology, assessment, and treatment of eating disorders, including anorexia nervosa, bulimia nervosa, binge eating disorder, and subclinical eating disorders. Theories of appetite control and weight regulation also covered.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* An introductory course in psychology.

**[\*Psychology 1861. Developmental Psychopathology: Seminar]**

Catalog Number: 1325 Enrollment: Limited to 20.

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*Half course (fall term). Hours to be arranged.*

An overview of mental disorders in childhood and adolescence. Topics include internalizing problems (anxiety, depression, suicide, and somatic disorders), externalizing problems (conduct disorder and ADHD), and autism. Theoretical perspectives, diagnostic criteria, etiology, treatment, and risk and protective factors are examined.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Psychology 1 or 18.

**Psychology 1862. Eating Disorders: Seminar**

Catalog Number: 5871 Enrollment: Limited to 15.

*Robin S. Rosenberg (fall term only)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

This seminar reviews major theories and research on the etiology and treatment of eating disorders, using the biopsychosocial model as the organizing structure. Topics include: the DSM-IV classification system and its drawbacks; the biological, psychological, and social forces that contribute toward the development of eating disorders; various treatments for eating disorders and their effectiveness.

*Prerequisite:* Psychology 18.



### **Psychology 1900. Introduction to Statistics for the Behavioral Sciences**

Catalog Number: 4016

*Ronald L. Butzlaff*

*Half course (fall term). Tu., Th., 2:30–4 and a weekly lab section to be arranged. EXAM GROUP: 16, 17*

Provides a conceptual and practical introduction to statistics used in psychology and other behavioral sciences. Covers basic topics in statistics including: measures of central tendency and variability; probability and distributions, correlations and regression, hypothesis testing, t-tests, analysis of variance, and chi-square tests. Includes a lab section with instruction in statistical analysis using a computer program.

*Note:* Open to freshmen with permission of instructor.

### **Psychology 1901. Methods of Behavioral Research**

Catalog Number: 3811

*Wendy Mendes (fall term) and Richard Gramzow (Northeastern University) (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30 and a one-hour section to be arranged. EXAM GROUP: 12, 13*

Theoretical and practical introduction to planning, conducting, reporting, and evaluating research in the social and behavioral sciences. Topics include experimental design, reliability and validity, experimental artifacts, and analysis of published research.

*Prerequisite:* Psychology 1900, Statistics 100, 101, 102, 104, or the equivalent.

### **\*Psychology 1951. Intermediate Quantitative Methods**

Catalog Number: 8674

*Lee Baer (Medical School)*

*Half course (fall term). M., W., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 6, 7*

Considers statistical methods used to analyze both experimental and naturalistic studies in psychology, which often involve small sample sizes or "messy" data. Methods include analysis of variance, contrasts, regression, bootstrap, and exploratory data analyses. Other topics include effect size, control of Type I and II errors, and meta-analysis.

*Prerequisite:* Psychology 1900, Statistics 100, 101, 102, 104, or the equivalent. Facility with at least one computer statistics package, and normally first- or second-year student standing in the Psychology graduate program.

### **\*Psychology 1952. Multivariate Analysis in Psychology**

Catalog Number: 6191

*Lee Baer (Medical School)*

*Half course (spring term). M., W., 1–2:30 and a weekly section to be arranged. EXAM GROUP: 6, 7*

Considers statistical methods used to simultaneously analyze sets of variables, usually to search for patterns in naturalistic data, but also applicable to experimental data. Methods include factor analysis, multiple linear regression, discriminant and covariance analysis. Other topics include canonical correlation and other clustering methods.

*Prerequisite:* Psychology 1951, facility with at least one computer statistics package, and normally first-or second-year student standing in the psychology graduate program.



***Cross-listed Courses***

**[History of Science 171. Narrative and Neurology]**

**[History of Science 175. Madness and Medicine: Themes in the History of Psychiatry](#)**

**[History of Science 176. Evolution and Human Nature: Conference Course](#)**

**[History of Science 177. Stories Under the Skin: The Mind-Body Connection in Modern Medicine]**

***Primarily for Graduates***

**[\\*Psychology 2010. Contemporary Topics in Psychological Research](#)**

Catalog Number: 6515

*Stephen M. Kosslyn*

*Half course (fall term). M., Th., 4–6. EXAM GROUP: 9, 18*

Advanced survey of research topics in cognition/brain/behavior, development, experimental psychopathology, clinical and social psychology.

*Note:* Required of, and limited to, first-year doctoral students in the department of Psychology.

**[\\*Psychology 2020ab. Cognition, Brain, and Behavior: Proseminar](#)**

Catalog Number: 7860

*Alfonso Caramazza and members of the Department*

*Full course (spring term). Tu., Th., 2–4. EXAM GROUP: 16, 17*

Advanced survey of research topics in cognition, brain, and behavior.

*Note:* Limited to first-year doctoral students in Psychology.

**[\\*Psychology 2040. Contemporary Topics in Psychopathology](#)**

Catalog Number: 4628 Enrollment: Doctoral students only.

*Jill M. Hooley*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Advanced survey of current topics in experimental psychopathology.

*Note:* Required of first- or second-year graduate students in psychopathology and clinical.

**[\\*Psychology 2050. History of Psychology: Seminar](#)**

Catalog Number: 3378

*Richard J. McNally*

*Half course (spring term). M., 4:30–6:30. EXAM GROUP: 9*

Covers major issues, theories, schools of thought, and controversies integral to the development of psychology from the late 19th century to the middle of the 20th century. Readings include classic articles exemplifying these themes.

*Note:* Undergraduates admitted with permission of instructor.

**[\[\\*Psychology 2100. Research Methodology\]](#)**

Catalog Number: 8552 Enrollment: Limited to doctoral students.

*J. Richard Hackman*

*Half course (spring term). Hours to be arranged.*

How to conduct empirical research, primarily with human participants. Topics include





formulating problems, design strategies, developing and validating concepts, designing and assessing measures and manipulations; issues in data collection, analysis, and interpretation; and publishing findings.

*Note:* Expected to be given in 2006–07.

**\*Psychology 2140. Cognitive Development and Music**

Catalog Number: 5185

*Erin E. Hannon and Elizabeth S. Spelke*

*Half course (spring term). Th., 6:30–8:30 pm. EXAM GROUP: 18*

Discusses basic and current research on the development of music cognition, with a focus on how training in music and other arts affects both specific (i.e. musical) and general (i.e., mathematical or spatial) abilities during development.

*Note:* Open to graduate students only.

**\*Psychology 2170. Developmental Proseminar**

Catalog Number: 6883

*Susan E. Carey and members of the Department*

*Half course (fall term). Hours to be arranged.*

Proseminar in conceptual development and language acquisition.

*Note:* Open to all graduate students in the department; required of all first-year students in the Psychology Department Developmental Program. Open to others by permission of the instructor.

**[\*Psychology 2180. Concepts and Theories: Computational Models]**

Catalog Number: 5200

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*Half course (fall term). Hours to be arranged.*

Introduction to computational theories of cognition, with a focus on the structure and acquisition of concepts and intuitive theories.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* A course in cognitive science and a course in probability or statistics.

**[\*Psychology 2190. Topics in Language Acquisition]**

Catalog Number: 2529

*Jesse Snedeker*

*Half course (spring term). Hours to be arranged.*

Examines basic issues in the development of language. Focuses on mid-level language: word segmentation, word learning, the development of basic clausal syntax, and the interaction between language acquisition and language processing.

*Note:* Expected to be given in 2006–07.

**\*Psychology 2200. Statistics and Data Analysis Through Computer Simulation**

Catalog Number: 6960

*Ken Nakayama*

*Half course (spring term). W., 1:30–3:30. EXAM GROUP: 6, 7, 8*

An inquiry-based course to evaluate data analysis techniques. Uses Monte Carlo simulation to assess strengths and limitations of formal arguments and bootstrap resampling to understand how



conclusions can be derived from data.

*Prerequisite:* Advanced course in statistics or permission of instructor.

**\*Psychology 2270. Research in Language Acquisition**

Catalog Number: 0770

*Jesse Snedeker*

*Half course (spring term). Hours to be arranged.*

Research seminar open to graduate students and advanced undergraduates conducting research in language acquisition.

**\*Psychology 2280. Language and Human Nature**

Catalog Number: 6741

*Steven Pinker*

*Half course (spring term). Tu., 6–8 pm. EXAM GROUP: 18*

Language as a window onto human conceptions of space, time, causation, number, agency, sex, and status. The focus is on words and grammatical constructions, but also diverse phenomena like swearing, baby naming, and legal language.

**\*Psychology 2300r. Perception, Cognition, and Representation: Seminar**

Catalog Number: 8369

*Patrick Cavanagh*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Discussion of issues in perception, attention, and cognition.

*Note:* Open to undergraduates with permission of instructor.

**Psychology 2305. Cognitive Genetics: Research Seminar**

Catalog Number: 8251

*Christopher F. Chabris*

*Half course (spring term). Hours to be arranged.*

Discusses current research in human cognitive genetics, focusing on methodological issues.

Students participate in developing ideas, materials, and protocols for research projects.

*Prerequisite:* Concurrent enrollment in Psychology 1305, or permission of the instructor.

**[\*Psychology 2320. Applying fMRI to Cognitive Research]**

Catalog Number: 5380

*Yuhong Jiang*

*Half course (spring term). Hours to be arranged.*

Covers basic fMRI methods in cognitive neuroscience. It takes the user and the reader's perspectives. Topics include data collection and analysis, experimental design, and the connection between BOLD and neuronal activity.

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.

**[\*Psychology 2330r. Cognitive Psychology and Neuroscience: Research Seminar]**

Catalog Number: 0503

*Yuhong Jiang*

*Half course (spring term). Hours to be arranged.*



Covers basic research skills (experimental design, programming, statistics) in studies on attention and memory. In addition to guided readings, students conduct a research project and write an APA-style article on it.

*Note:* Expected to be given in 2006–07. Open to undergraduate students with permission of the instructor.

**\*Psychology 2335r. Language: Research Seminar**

Catalog Number: 5121

*Alfonso Caramazza*

*Half course (fall term; repeated spring term). W., 2–4. EXAM GROUP: Fall: 7, 8*

Focuses on how to carry out research on language and cognition. Students discuss ongoing research projects on such issues as the organization of semantic, grammatical and lexical knowledge, language production, bilingualism and reading.

*Note:* Open to graduate and undergraduate students involved in research in language.

**[\*Psychology 2345. Topics in Language Research: Linguistic, Cognitive, and Neural Aspects]**

Catalog Number: 6215

*Alfonso Caramazza*

*Half course (fall term). Hours to be arranged.*

Focuses on recent issues in language processing. Research findings from various areas and different approaches are considered, including neuroimaging studies, cross-linguistic investigations, aphasia research, and bilingualism.

*Note:* Expected to be given in 2007–08. Open to undergraduates with permission of instructor.

**\*Psychology 2355r. Laboratory in Cognitive Neuroscience: Seminar**

Catalog Number: 1119

*Stephen M. Kosslyn*

*Half course (fall term; repeated spring term). Fall: M., at 2; Spring: Tu., 1–3. EXAM GROUP: Fall: 7; Spring: 15, 16*

Focuses on how to research visual cognition. Students learn to conduct experiments, including fundamentals of experimental design and data analysis. Concludes with formal presentation of research.

*Note:* Meets laboratory methods requirement for honors undergraduates. Open to undergraduates with permission of instructor.

*Prerequisite:* Psychology 13 or Biological Sciences 80, plus statistics.

**[\*Psychology 2358. Memory: Research Seminar]**

Catalog Number: 0141

*Daniel L. Schacter*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Topic to be announced.

*Note:* Expected to be given in 2006–07. Limited to students involved in research.

**\*Psychology 2360. Conceptual Development: Research Seminar**

Catalog Number: 6601



*Susan E. Carey*

*Half course (fall term; repeated spring term). Spring: W., 2:30–4. EXAM GROUP: Spring: 7, 8*  
Covers research methods for the study of conceptual development throughout the life span. All students must be currently engaged in experimental research.

*Note:* Open to undergraduates with permission of instructor.

**[\*Psychology 2400. Cognitive Psychology and Emotional Disorders]**

Catalog Number: 6138

*Richard J. McNally*

*Half course (fall term). Hours to be arranged.*

Research and theory on the application of cognitive psychology methods applied to the understanding of anxiety and mood disorders.

*Note:* Expected to be given in 2007–08. Limited to graduate students.

**[\*Psychology 2420. Cognitive-Behavioral Treatment of Psychological Disorders]**

Catalog Number: 8446

*Jill M. Hooley*

*Half course (spring term). Hours to be arranged.*

Covers current cognitive-behavioral approaches to the treatment of common psychological disorders in adults. Emphasis is on the practical aspects of treatment, and on treatment outcome research. Includes theoretical underpinnings of cognitive-behavioral therapy.

*Note:* Expected to be given in 2006–07. Limited to Harvard graduate students in clinical psychology.

**[\*Psychology 2430. Cultural and Individual Diversity]**

Catalog Number: 9756

*Matthew K. Nock*

*Half course (spring term). Hours to be arranged.*

Examines cultural, racial, ethnic, and other individual differences in human behavior which affect the practice of psychology. Reviews current science examining the relations between these factors and human behavior, psychopathology, and provision of psychological services.

*Note:* Expected to be given in 2006–07. Enrollment limited to doctoral students.

**[\*Psychology 2445. Psychotherapy Research]**

Catalog Number: 1835

*Matthew K. Nock*

*Half course (fall term). Hours to be arranged.*

Covers theories and research on psychotherapy and behavior change. Examines history of psychotherapy, methods for studying behavior change, and current issues in psychotherapy research: use of treatment manuals, study of efficacy/effectiveness, and evaluation of mechanisms/moderators of change.

*Note:* Expected to be given in 2006–07. Open to undergraduates with permission of instructor.

**\*Psychology 2450. Affective and Social Neuroscience**

Catalog Number: 9796

*Diego Pizzagalli*



*Half course (spring term). M., 2:30–4:30. EXAM GROUP: 7, 8, 9*

Reviews two emerging fields in neuroscience, affective and social neuroscience. Through integration of human and animal data, the course focuses on mapping affect, motivation, and social cognition to brain function.

*Note:* Open to advanced undergraduates with permission of instructor.

**[\*Psychology 2460. Diagnostic Interviewing]**

Catalog Number: 4157 Enrollment: Limited to 12.

*Jill M. Hooley*

*Half course (fall term). Hours to be arranged.*

Students develop clinical interviewing and diagnostic skills using the Structured Clinical Interview for DSM-III-R and other instruments. Examines issues in diagnosis and assessment; provides exposure to psychopathology syndromes via tapes and clinical interviews.

*Note:* Expected to be given in 2006–07. Graduate students only.

*Prerequisite:* Psychology 2040.

**Psychology 2461r. Laboratory for Clinical and Developmental Research**

Catalog Number: 8042

*Matthew K. Nock*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Provides instruction and experience in conducting clinical research in laboratory and clinical settings, with a special focus on developmental psychopathology.

*Note:* Open to graduate and undergraduate students working in the instructor's laboratory.

**[\*Psychology 2462. Diagnostic Interviewing: Practicum]**

Catalog Number: 3840

*Jill M. Hooley*

*Half course (fall term). Hours to be arranged.*

Supervised experience in psychiatric diagnosis. Students assess Axis I and Axis II disorders in clinical samples. Students are required to travel to practicum sites to conduct interviews between class meetings.

*Note:* Expected to be given in 2006–07. Graduate students only.

*Prerequisite:* Psychology 2040 and Psychology 2460 strictly required.

**[\*Psychology 2475. Social Psychophysiology: Seminar]**

Catalog Number: 0385

*Wendy Mendes*

*Half course (spring term). Hours to be arranged.*

Focuses on psychophysiology as a methodology in experimental work. Covers bases for psychological inference, biological systems (including autonomic, endocrine, and immune systems), and illustrative examples of physiological methodology in social, clinical, and developmental studies.

*Note:* Expected to be given in 2007–08. Open to graduate students only.

**[\*Psychology 2480. Human Neuropsychology/Neuroanatomy: Seminar]**

Catalog Number: 4335



*William P. Milberg (Medical School)*

*Half course (fall term). Hours to be arranged.*

Introduction to the anatomical structure of the human brain. Emphasis on neuropsychological correlates and cortical representation of higher cognitive functions. Gross brain dissection laboratory and discussions of descriptive and theoretical aspects of clinical neuropsychological phenomena.

*Note:* Expected to be given in 2006–07. Preference given to graduate students who have completed Psychology 2010; if space is available, qualified undergraduates who have taken Biological Sciences 25 or 80 may enroll with permission of instructor.

### **Psychology 2482. Neuropsychological Assessment**

Catalog Number: 3669 Enrollment: Limited to 12.

*William P. Milberg (Medical School)*

*Half course (fall term). Tu., 4:30–6:30. EXAM GROUP: 18*

Introduction to the theory and technique of assessing higher mental functions in brain-damaged patients. Topics include a comparison of currently available test batteries, clinical localization of cortical functions, and behavioral neurology.

*Note:* Preference given to graduate students who have completed Psychology 2010 and Psychology 2480; if space is available, qualified undergraduates who have taken Biological Sciences 25 or 80 may enroll with permission of instructor.

### **\*Psychology 2500. Advanced Social Psychology**

Catalog Number: 5094

*Daniel M. Wegner*

*Half course (fall term). Hours to be arranged.*

Advanced survey of classic and current research and theory in social psychology, including self, social cognition, attitudes, social influence, altruism and aggression, prejudice and discrimination, close relationships, and group dynamics.

### **\*Psychology 2530r. Mental Control: Research Seminar**

Catalog Number: 2364

*Daniel M. Wegner*

*Half course (fall term; repeated spring term). F., at 12, and research hours to be arranged.*

*EXAM GROUP: 5*

*Note:* Limited to graduate students and undergraduates involved in research in the instructor's laboratory.

### **\*Psychology 2553r. Decision Making and Negotiation: Research Seminar**

Catalog Number: 4679

*Max H. Bazerman (Business School)*

*Half course (fall term; repeated spring term). Hours to be arranged.*

This seminar provides lab experience in behavioral approaches to decision making and negotiation.

*Note:* Open to students working on research in the instructor's laboratory. Offered jointly with the Business School as 4425.



**\*Psychology 2580r. Affective Forecasting: Research Seminar**

Catalog Number: 4262

*Daniel T. Gilbert*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Topic to be announced.

*Note:* Open to students working on research in the instructor's laboratory.

**Psychology 2610r. Social Psychophysiology: Research Seminar**

Catalog Number: 0190

*Wendy Mendes*

*Half course (fall term; repeated spring term). Hours to be arranged.*

This seminar provides lab experience in physiological acquisition obtained from studies examining stress, motivation, and emotion.

*Note:* Limited to graduate students and undergraduates involved in research in the instructor's laboratory.

**\*Psychology 2630. Social Behavior in Organizations: Seminar**

Catalog Number: 0991

*J. Richard Hackman*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Topics include how groups and organizations affect individual members and vice versa; interpersonal and group processes; work team effectiveness; power, political, and intergroup dynamics; group and organizational leadership.

*Note:* Limited to doctoral students. Students are expected to attend the lectures of Psychology 1501.

**\*Psychology 2640r. The Understand Seminar**

Catalog Number: 7865

*Mahzarin R. Banaji*

*Half course (fall term; repeated spring term). Fall: Tu., 4–6; Spring: M., 4–6. EXAM GROUP:*

*Fall: 18; Spring: 9*

Topic to be announced.

*Note:* Open to graduate students involved in research in the instructor's laboratory, and to select juniors and seniors.

**\*Psychology 2650. Behavioral Approaches to Decision Making and Negotiation**

Catalog Number: 7147

*Max H. Bazerman (Business School)*

*Half course (spring term). M., 3–6. EXAM GROUP: 8, 9*

Research overview of behavioral decision making and decision analytic perspectives to negotiation. Explores bounded rationality, decision biases, human decision making. Develops a behavioral decision perspective to negotiation, and examines how the field is currently evolving.

*Note:* Offered jointly with the Business School as 4420. Open to juniors and seniors in psychology and economics who are writing, or plan to write, a senior thesis.





**\*Psychology 2660r. Research Seminar in Mindfulness Theory**

Catalog Number: 4909

*Ellen J. Langer*

*Half course (spring term). Tu., at 2:30. EXAM GROUP: 16, 17*

Mindfulness/mindfulness theory is compared/contrasted to relevant theories in social and cognitive psychology. Experimental research is required.

*Note:* Open to undergraduates writing theses with instructor.

**\*Psychology 2700r (formerly \*Psychology 2700). Debates in the Practice of Good Psychological Science**

Catalog Number: 5986

*Susan E. Carey and members of the Department*

*Half course (fall term; repeated spring term). W. 5:30–7 on non-colloquia days. EXAM GROUP: 9*

Addresses meta-level questions about practicing the science of psychology in graduate school. Graduate students and faculty guests discuss differences between areas of psychology and problems of professional development toward establishing productive, collegial cross talk.

*Note:* Open to doctoral students only.

**[\*Psychology 2701. Advanced Topics in Human Assessment]**

Catalog Number: 2391 Enrollment: Limited to 12.

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*Half course (spring term). Hours to be arranged.*

Surveys the theoretical, psychometric, and applied aspects of human assessment. Topics include individual differences, measurement, cognitive and action systems assessment, and research design issues. Spans areas including life-span developmental, personality/social, organizational, and clinical/health psychology.

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

**History of Science 273. Freud and the American Academy**

***Graduate Courses of Reading and Research***

**\*Psychology 3010. Special Reading and Research**

Catalog Number: 7858

*Mahzarin R. Banaji 4258, Randy L. Buckner 5370, Alfonso Caramazza 1871, Susan E. Carey 4113, Patrick Cavanagh 2447, Daniel T. Gilbert 2359, J. Richard Hackman 1504, Erin E. Hannon 5330, Marc D. Hauser 3347, Jill M. Hooley 1191, Yuhong Jiang 4646 (on leave spring term), Stephen M. Kosslyn 7836, Ellen J. Langer 4967 (on leave fall term), Richard J. McNally 2978, Wendy Mendes 5033, Ken Nakayama 2558, Matthew K. Nock 4645 (on leave 2005-06), Steven Pinker 4733, Diego Pizzagalli 4425, Daniel L. Schacter 2805 (on leave 2005-06), James Sidanius 5371, Jesse Snedeker 4118, Elizabeth S. Spelke 3850, and Daniel M. Wegner 3758 (on leave spring term)*



**\*Psychology 3020. Direction of Doctoral Dissertations**

Catalog Number: 4492

*Members of the Department and others listed under Psychology 3010.*

**\*Psychology 3050. Clinical Practicum**

Catalog Number: 6299

*Jill M. Hooley 1191, Richard J. McNally 2978, and Matthew K. Nock 4645 (on leave 2005-06)*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Students work in clinical settings locally and, under supervision, are directly involved in the treatment and clinical care of patients.

*Note:* Limited to Harvard doctoral students in clinical psychology.

**\*Psychology 3070. Clinical Assessment and Treatment Practicum**

Catalog Number: 4439

*Jill M. Hooley 1191 and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Faculty interview psychiatric inpatients to demonstrate establishing treatment alliances, gathering histories, and initial assessment. Group discussion will consider how theoretical principles are applied to clinical work.

*Note:* Limited to graduate students in clinical psychology.

**\*Psychology 3080. Practicum in Clinical Neuropsychological Assessment**

Catalog Number: 3583

*William P. Milberg (Medical School) 7912*

*Half course (spring term). Tu., 4:30–6:30.*

Seminar for advanced doctoral students in clinical psychology; uses a case conference format to discuss the administration and interpretation of neuropsychological tests. Emphasizes integrating scientific literature and methods into the process of clinical decision making.

*Note:* Limited to Harvard doctoral students in clinical psychology.

*Prerequisite:* Psychology 2480 and 2482.

**\*Psychology 3200. Research Seminar in Experimental Psychopathology/Clinical Psychology**

Catalog Number: 6455

*Matthew K. Nock 4645 (on leave 2005-06) and Diego Pizzagalli 4425*

*Half course (fall term; repeated spring term). W., 4–5:30.*

Provides a forum for presenting, discussing, and critically evaluating current research in experimental psychopathology/clinical psychology. Presenters include graduate students and faculty in experimental psychopathology/clinical psychology, as well as outside speakers. For more information about this course, please visit the following website:

[www.courses.fas.harvard.edu/~psy3200/](http://www.courses.fas.harvard.edu/~psy3200/).

*Note:* Attendance required for all students in Experimental Psychopathology/Clinical Psychology (first-, second-, and third-year graduate students are required to take this seminar for credit).

**\*Psychology 3220 (formerly \*Psychology 2220a). Developmental Studies: Seminar**

Catalog Number: 4672



*Susan E. Carey (fall term) 4113, Elizabeth S. Spelke (spring term) 3850, and members of the Department.*

*Half course (fall term; repeated spring term). M., 2:30–4.*

Research seminar open to graduate students conducting research in cognitive development.

**\*Psychology 3250. Psychological Testing**

Catalog Number: 7164

*Marla D. Eby (Medical School) 5333*

*Half course (fall term). F., 10–12.*

This weekly seminar for graduate students in clinical psychology is designed to provide basic skills in administering and interpreting standardized tests in the areas of intellectual assessment and personality assessment.

*Note:* Open to Harvard doctoral students in clinical psychology.

**\*Psychology 3340. Research Seminar in Cognition, Brain, and Behavior.**

Catalog Number: 1754

*Alfonso Caramazza 1871 and members of the Department*

*Half course (fall term; repeated spring term). Th., 12–1:30.*

Researchers in CBB, including graduate students, postdoctoral fellows, and faculty, present and discuss current research in cognitive science. Topics include memory, language, vision, mental imagery, concepts, animal and infant cognition, and related areas.

**\*Psychology 3360. Current Topics in Vision and Sensory Processes**

Catalog Number: 0604

*Ken Nakayama 2558*

*Half course (fall term). Tu., at 12.*

**[\*Psychology 3400. Developmental Psychopathology Research Workshop]**

Catalog Number: 3205

*Matthew K. Nock 4645 (on leave 2005-06)*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Research presentation series aimed at understanding developmental influences on the occurrence of psychopathology. This workshop welcomes graduate students, faculty, and other scientists from divergent research areas to facilitate cross-disciplinary advances on developmental psychopathology.

*Note:* Expected to be given in 2006–07.

**\*Psychology 3420. Research Workshop in Social Psychology**

Catalog Number: 7610

*Mahzarin R. Banaji 4258*

*Half course (fall term; repeated spring term). Tu., 12–1:30.*

Provides a forum for the presentation, discussion, and critique of current research in social psychology. Presenters include graduate students and faculty in social psychology plus visitors.

*Note:* Required of first-year graduate students in social psychology in fall and spring; open to all other social psychology students in fall and spring.



**\*Psychology 3500. The Human Mind: Talking Points**

Catalog Number: 5341

*Steven Pinker 4733*

*Half course (spring term). Th., 3:30–5:30.*

A graduate companion course to “The Human Mind,” which explores the theories and controversies in greater depth. Topics include nature and nurture, reductionism, determinism, religion and science, consciousness, violence, politics, sex differences, and rationality.

*Note:* Enrollment is limited to teaching fellows for “The Human Mind” and graduate students who have obtained the permission of the instructor.

**\*Psychology 3550. Teaching Psychology**

Catalog Number: 0853

*Mahzarin R. Banaji 4258*

*Half course (fall term; repeated spring term). W., at 12.*

*Note:* Limited to and required of Sophomore Tutors.

**\*Psychology 3552. The Psychology of Prospecction**

Catalog Number: 2061

*Daniel T. Gilbert 2359*

*Half course (spring term). Th., 1–4.*

How and how well can human beings predict the hedonic consequences of future experiences?

This seminar explores research in psychology, philosophy, cognitive neuroscience, and behavioral economics that bears on this question.

**\*Psychology 3555. Instructional Styles in Psychology**

Catalog Number: 6831

*Susan E. Carey 4113 and members of the Department*

*Half course (spring term). Hours to be arranged.*

*Note:* Normally required of and limited to department graduate students who are first-time teaching fellows.

**\*Psychology 3560. The Real World**

Catalog Number: 5482

*Patrick Cavanagh 2447 and Stephen M. Kosslyn 7836*

*Half course (spring term). F., 2–4.*

Orientation to the world after graduate school. Reviews basic survival skills, including those used immediately, such as teaching, and those needed for academic jobs, such as writing vitas, giving job talks, preparing grant proposals.

*Note:* Limited to graduate students in psychology.

**\*Psychology 3600. The Origins of Knowledge: Talking Points**

Catalog Number: 0489

*Susan E. Carey 4113 and Elizabeth S. Spelke 3850*

*Half course (fall term). Hours to be arranged.*

Graduate companion course to Origins of Knowledge, which explores the theories and controversies in greater depth. Topics include the evolutionary, cultural, and ontogenetic origins



of representational capacities, including space, number, objects, agents, language, and intuitive theories.

*Note:* Limited to students in the Psychology Department or to those who have obtained permission of the instructor.

**\*Psychology 3610 (formerly \*Psychology 2610r). Leadership and Group Behavior: Research Seminar**

Catalog Number: 5748

*J. Richard Hackman 1504*

*Half course (fall term; repeated spring term). W., 11:30–1:30.*

Workshop on theory and methods that are relevant to the conduct of empirical research on purposive groups. Participation is restricted to students who are conducting such research.

**\*Psychology 3800. Psychometric Theory**

Catalog Number: 0607

*Richard J. McNally 2978*

*Half course (fall term). M., 4–6.*

Covers basic psychometric theory and methods essential for reliable and valid measurement.

Reliability, validity, and generalizability reviewed. Detailed survey of techniques used to create and evaluate a scale.

**\*Psychology 3900 (formerly \*Psychology 2900). Professional Ethics**

Catalog Number: 6702 Enrollment: Limited to graduate students.

*Jill M. Hooley 1191*

*Half course (fall term). Tu., 2–4.*

Examines ethical principles and legal issues involved in the practice of psychology, with an emphasis on clinical psychology. Covers ethical principles and code of conduct; uses case examples to highlight the application of these principles.

## Public Policy

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

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Ricardo Hausmann, Professor of the Practice of Economic Development (*Kennedy School*)

Brian A. Jacob, Assistant Professor of Public Policy (*Kennedy School*)

Sheila S. Jasanoff, Pforzheimer Professor of Science and Technology Studies (*Kennedy School*)  
(*on leave fall term*)

Christopher Jencks, Malcolm Wiener Professor of Social Policy (*Kennedy School*) (*on leave*  
*2005-06*)

Joseph P. Kalt, Ford Foundation Professor of International Political Economy (*Kennedy School*)  
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Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy (*Kennedy School*)

The doctoral program in Public Policy trains qualified candidates to shape the direction of public policy research and to prepare the next generation of teachers for programs in public policy. It also qualifies individuals to perform high-level policy analysis and prepares them for positions of leadership in the public sector. Interested applicants should contact the John F. Kennedy School of Government for application material.

All PhD candidates must demonstrate mastery of five fields of study through a combination of course work and written and oral examinations. A sophisticated understanding of the core materials in the MPP program at the Kennedy School, and a demonstrated ability to apply analytic techniques to a field of policy are critical components of the faculty decision to recommend a student to the Graduate School of Arts and Sciences for the dissertation phase of study. Once admitted to the GSAS, a student is expected to work closely with a faculty adviser and dissertation committee. Most dissertations involve the application of analytic techniques to the solution of a substantive problem. A few methodological theses concentrate on developing new analytic techniques, their usefulness to be demonstrated through explicit application to a policy issue.

For more information about the doctoral program, visit the program website at [www.ksg.harvard.edu/ksgdoctoral/](http://www.ksg.harvard.edu/ksgdoctoral/).



# The Study of Religion

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Committee on the Study of Religion*

Robert A. Orsi, Charles Warren Professor of History of Religion in America (*Divinity School*)  
(*Chair*)

Ryuichi Abe, Reischauer Institute Professor of Japanese Religions

M. Shahab Ahmed, Assistant Professor of Islamic Studies

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Wallace D. Best, Assistant Professor of African American Religious Studies (*Divinity School*)

François Bovon, Frothingham Professor of the History of Religion (*Divinity School*) (*Director of ThD Studies*)

Francis X. Clooney, Parkman Professor of Divinity and Professor of Comparative Theology  
(*Divinity School*)

Shaye J.D. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy

Benjamin H. Dunning, Lecturer on the Study of Religion (*Director of Undergraduate Studies*)

Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society

Francis Fiorenza, Charles Chauncey Stillman Professor of Roman Catholic Theological Studies  
(*Divinity School*) (*on leave 2005-06*)

Robert M. Gimello, Visiting Professor of East Asian Studies and Religious Studies (*University of Arizona*)

William A. Graham, Jr., Murray A. Albertson Professor of Middle Eastern Studies (*FAS*) and  
John Lord O'Brian Professor of Divinity (*Divinity School*)

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)

Jeffrey F. Hamburger, Professor of History of Art and Architecture

Smita Lahiri, Assistant Professor of Anthropology

Thomas A. Lewis, Assistant Professor of Christian Studies (*Director of Undergraduate Studies*)  
(*on leave 2005-06*)

Kevin J. Madigan, Associate Professor of the History of Christianity (*Divinity School*)

Anne Elizabeth Monius, Professor of South Asian Religions (*Divinity School*) (*Director of PhD Studies*)

Laura S. Nasrallah, Assistant Professor of New Testament and Early Christianity (*Divinity School*)

Parimal G. Patil, Assistant Professor of the Study of Religion and of Sanskrit and Indian Studies  
(*on leave 2005-06*)

Patrick Provost-Smith, Assistant Professor of the History of Christianity (*Divinity School*)

Michael J. Puett, Professor of Chinese History

Ronald Thiemann, Professor of Theology and of Religion and Society (*Divinity School*)

### *Other Faculty Offering Instruction in the Study of Religion*





Leila Ahmed, Victor S. Thomas Professor of Divinity (*Divinity School*) (*on leave 2005-06*)  
 Ann D. Braude, Senior Lecturer in American Religious History (*Divinity School*)  
 David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America (*FAS, Divinity School*) (*on leave fall term*)  
 Jocelyne Cesari, Visiting Associate Professor of Islamic Studies (*Divinity School*)  
 Sarah Coakley, Edward Mallinckrodt, Jr. Professor of Divinity (*Divinity School*)  
 Harvey G. Cox, Jr., Hollis Professor of Divinity (*Divinity School*)  
 John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature  
 Arthur J. Dyck, Mary B. Saltonstall Professor of Population Ethics (*Public Health, Divinity School*)  
 Marla F. Frederick, Assistant Professor of African and African American Studies and of the Study of Religion (*on leave 2005-06*)  
 Peter J. Gomes, Plummer Professor of Christian Morals (*Divinity School*)  
 David D. Hall, Bartlett Professor of New England Church History (*Divinity School*)  
 Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*on leave fall term*)  
 Christine M. Helmer, Senior Scholar in Theology (*Divinity School*)  
 Albert Henrichs, Eliot Professor of Greek Literature (*on leave fall term*)  
 Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies (*on leave 2005-06*)  
 William R. Hutchison, Charles Warren Research Professor of the History of Religion in America (*Divinity School*)  
 Baber Johansen, Professor of Islamic Religious Studies (*Divinity School*)  
 Beverly M. Kienzle, Professor of the Practice of Latin and Romance Languages (*Divinity School*) (*on leave 2005-06*)  
 Karen L. King, Winn Professor of Ecclesiastical History (*Divinity School*)  
 James T. Kloppenberg, Harvard College Professor and David Woods Kemper '41 Professor of American History  
 Helmut H. Koester, John H. Morison Research Professor of New Testament Studies and Winn Research Professor of Ecclesiastical History (*Divinity School*)  
 David Lamberth, Associate Professor of Theology (*Divinity School*)  
 Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*)  
 David Little, T. J. Dermot Dunphy Professor of the Practice in Religion, Ethnicity, and International Conflict (*Divinity School*)  
 Peter Machinist, Hancock Professor of Hebrew and Other Oriental Languages  
 Everett I. Mendelsohn, Professor of the History of Science (*on leave 2005-06*)  
 David G. Mitten, James Loeb Professor of Classical Art and Archaeology  
 Roy Mottahedeh, Gurney Professor of History  
 Kimberley C. Patton, Professor of the Comparative and Historical Study of Religion (*Divinity School*) (*on leave 2005-06*)  
 Stephanie A. Paulsell, Amory Houghton Professor of the Practice of Ministry Studies (*Divinity School*)  
 Christopher S. Queen, Lecturer on the Study of Religion  
 Jonathan Schofer, Assistant Professor of Comparative Ethics (*Divinity School*)  
 Elisabeth Schüssler Fiorenza, Krister Stendahl Professor of Divinity (*Divinity School*)  
 P. Oktor Skjaervo, Aga Khan Professor of Iranian  
 Donald K. Swearer, Visiting Professor of Buddhist Studies (*Divinity School*)



Wei-Ming Tu, Harvard-Yenching Professor of Chinese History and Philosophy and of Confucian Studies

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies

Preston N. Williams, Houghton Research Professor of Theology and Contemporary Change  
(Divinity School)

Courses listed in this section are offered by the Committee on the Study of Religion and by various departments. The Committee is responsible for the program of concentration for undergraduates in the Comparative Study of Religion and for the program of studies leading to the PhD in The Study of Religion. Undergraduate concentrators may, with the prior approval of the Head Tutor, take courses offered by other departments and by the Divinity School for credit toward concentration requirements. Candidates for higher degrees also should consult other sections of this catalog relevant to their programs and the catalog of the Divinity School. Cross registration is required for all Divinity School courses. Many courses have separate requirements for undergraduate, masters, and doctoral students, and wherever possible also have separate discussion sections.

Courses numbered 10–999 are Primarily for Undergraduates; 1000–1999, For Undergraduates and Graduates; and 2000–2999, Primarily for Graduates. Courses are distributed according to their last three digits in the following sections:

000–099 General: Comparative and Methodological

100–199 Ancient Near Eastern and Israelite

200–299 Judaic

300–349 Greek, Hellenistic, and Roman

350–399 Iranian and Central Asian

400–499 Christianity

500–599 Modern Western

600–699 Hinduism

700–799 Buddhism

800–899 Islam

900–999 African and Other

***Tutorials in the Comparative Study of Religion***

***Primarily for Undergraduates***



**\*Religion 91r. Supervised Reading and Research**

Catalog Number: 8046

*Benjamin H. Dunning*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Study of special topics in the history and comparative study of religion on an individual or small-group basis.

*Note:* May not be taken Pass/Fail. Normally open only to concentrators. Permission of Head Tutor required.

**\*Religion 97 (formerly \*Religion 97a and 97b). Tutorial — Sophomore Year**

Catalog Number: 2313

*Robert A. Orsi (Divinity School) and assistants*

*Half course (spring term). Th., 3–5.*

*Note:* Required of concentrators.

**\*Religion 98a. Tutorial — Junior Year**

Catalog Number: 2832

*Benjamin H. Dunning and assistants*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of concentrators.

**\*Religion 98b. Tutorial — Junior Year**

Catalog Number: 2922

*Benjamin H. Dunning and assistants*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of concentrators.

**\*Religion 99. Tutorial — Senior Year**

Catalog Number: 6498

*Benjamin H. Dunning*

*Full course. Hours to be arranged.*

A required component of the senior year tutorial is a monthly seminar, led by the Assistant Head Tutor. Covers research methods and strategies in thesis writing in the fall, becoming an intensive review for general examinations in the spring.

*Note:* Required of concentrators.

***Introductory Courses***

***Primarily for Undergraduates***

**Religion 11. World Religions: Diversity and Dialogue**

Catalog Number: 4811

*Diana L. Eck*

*Half course (fall term). Tu., Th., 11:30–1 and an hour to be arranged. EXAM GROUP: 13, 14*

An introduction to five of the world's religious traditions—Hindu, Buddhist, Jewish, Christian and Muslim—through the lens of modern adherents and interpreters. How do people in each



tradition articulate their faith in the context of the modern world and its forms of globalization? How do they think about the challenges of religious pluralism? This course investigates questions of religious difference and introduces critical problems of interpretation in the study of religion.

*Note:* Offered jointly with the Divinity School as 3220.

#### **[Religion 14. Comparative Religious Ethics]**

Catalog Number: 1787

*Anne Elizabeth Monius (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A comparative examination of conceptions of the moral self and ways of thinking and acting ethically within the framework of three religious traditions: Hinduism, Buddhism, and Christianity. These issues are explored in part through examination of a number of contemporary moral problems making use of a wide range of sources, including ethnographies, narratives, prescriptive codes, and the works of contemporary ethicists from each tradition.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3409.

#### **[Religion 15. Locating “History” in the History of Religions ]**

Catalog Number: 1307

*Kevin J. Madigan (Divinity School) and Anne Elizabeth Monius (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Focusing on foundational scriptures from four religious traditions, this course considers the many ways in which such texts are used to build historical narratives, both within the religious communities and in academic discourse. Exploring the implications of historical-critical theory for the study of religion, this course examines the ways in which religious narratives provide useful points of entry into understanding conceptions of time, space, moral vision, and aesthetics that lie at the heart of human religiosity.

*Note:* Expected to be given in 2008–09. Offered jointly with the Divinity School as 3400.

#### **[Religion 16 (formerly Religion 1004). Religious Dimensions in Human Experience]**

Catalog Number: 9089

*David L. Carrasco (FAS, Divinity School)*

*Half course (fall term). Hours to be arranged.*

A critical introduction to major themes in the history of religions including religious experience, cosmic cities, ritual violence, charisma, ancestors and ghosts, the death of God(s), search for the soul, identity and ethnicity. A robust study of religious claims in Judeo-Christian, Islamic, Hindu traditions and Latin American and African American Religions by reading Toni Morrison, Tomas Eloy Martinez, Diana Eck, Mircea Eliade, Leila Ahmed, and others.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3160.

#### **[Religion 18 (formerly Religion 1469). Religion, Medicine, and Suffering in the West]**

Catalog Number: 9610

*Robert A. Orsi (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Examination using a variety of theoretical approaches of the meanings of suffering and pain in Christian cultures. Course begins with theoretical reflection on culture and pain, then moves to



consider how Christians have responded to the body in pain, including healing practice. Topics include theodicy as cultural practice; martyr as Christian hero; pain and the construction of religious meanings; power, pain, and discipline in religious settings.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2315.

### **Religion 19. Religious Belief and Moral Action**

Catalog Number: 0069

*Donald K. Swearer (Divinity School)*

*Half course (spring term). Tu., Th., at 9; Th., at 10. EXAM GROUP: 11*

An exploration of the relationship between religion and morality. Basic ethical concepts in Christianity, Hinduism, and Buddhism will be studied in relationship to their cosmological, epistemological, and theological frameworks. The course will explore the concepts of virtue, love, justice, nonviolence, and the moral exemplar through the life and writing of Dorothy Day, Martin Luther King Jr., Malcolm X, Mahatma Gandhi, Abd al-Ghaffar Khan, and Thich Nhat Hanh.

*Note:* Offered jointly with Divinity School as 3571.

### **Religion 42. The Christian Bible and Its Interpretations**

Catalog Number: 5870

*Peter J. Gomes (Divinity School)*

*Half course (fall term). W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Introduction to the Christian conception of scripture from the closing of the Canon to the Fundamentalist/Modernist controversy. Topics considered include the relationship of scripture to tradition, appropriation of Hebrew scripture, exegetical and hermeneutical theories, and scripture and culture. Particular attention paid to the development of theories of scriptural authority and their social consequences within the Western Christian experience and American Protestantism.

*Note:* Offered jointly with the Divinity School as 1210.

### **Religion 43. The Making of Christianity**

Catalog Number: 3257

*Benjamin H. Dunning*

*Half course (spring term). Tu., Th., at 1 and a weekly section to be arranged. EXAM GROUP: 15*

What is “Christianity” and where did it come from? How did religious leaders, from Paul to Augustine, navigate the diverse teachings, rituals and social practices of Jesus of Nazareth and his followers? How did a single “Christianity” emerge from a welter of alternatives and possibilities? Or did it? Special emphasis will be given to the careful study of primary sources, questions of historiography, and contemporary debates over how Christianity was “made” (both in scholarship and popular culture).

### **Religion 44. The Bible and Human Sexuality**

Catalog Number: 3260

*Benjamin H. Dunning*

*Half course (fall term). M., W., at 11 and a weekly section to be arranged. EXAM GROUP: 4*

An examination of key biblical texts that have figured in discussions of human sexuality from antiquity to the present. Particular attention will be paid to how shifting approaches to



interpretation in different historical periods have informed the reading of the Bible in relation to sexual ethics, sexual identity and sexual practice. Topics include marriage, gender identity, desire, same-sex relationships, and sexual renunciation.

### ***Cross-listed Courses***

#### **Foreign Cultures 12. Sources of Indian Civilization**

**[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]**

### ***General: Comparative and Methodological***

#### ***For Undergraduates and Graduates***

#### **Religion 1002. Back Roads to Far Places: Literature of Journey and Quest**

Catalog Number: 9091

*William A. Graham, Jr. and Stephanie A. Paulsell (Divinity School)*

*Half course (spring term). M., W., at 9 and a weekly section to be arranged. EXAM GROUP: 2*

This course will explore the pervasive themes of journey and quest in world literature with particular attention to the religious dimensions of those themes. Through direct encounter with imaginative literary works from a variety of contexts and genres, we will consider the relationship between interior journeys and journeys through an external landscape, home and exile, bewilderment and certainty, and the religious and literary dimensions of literature itself.

*Note:* Offered jointly with the Divinity School as 2490.

#### **Religion 1007. Religion in Multicultural America**

Catalog Number: 8833 Enrollment: Limited to 15.

*Diana L. Eck*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

An exploration and analysis of the dynamic multi-religious landscape of the US. Special focus on Muslim and Asian American traditions—Hindu, Buddhist, Sikh and Jain. How are these traditions changing in the American environment? In what contexts do they encounter long-dominant Christian and Jewish communities? How is America changing as we all struggle with civic, constitutional, and theological issues, especially in the post-9/11 period?

*Note:* Offered jointly with the Divinity School as 3847.

#### **[Religion 1014a (formerly Religion 1014). Realms of Power: Animals in Religion I]**

Catalog Number: 4827

*Kimberley C. Patton (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course will focus on the symbolism and ritual function of animals in human religious worlds. Using particular cultural histories as paradigms, we will consider themes such as cosmogony, hierarchy, magic, metamorphosis, antinomianism, prophecy, mimesis, hunting, sacrifice, and the role of fantastic creatures. Central to our work will be the evaluation of developmentalist and other theoretical models and their impact on the history of religion.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3656a.





**[Religion 1014b. Realms of Power: Animals in Religion II]**

Catalog Number: 0068

*Kimberley C. Patton (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A continuation of Religion 1014a.

*Note:* Expected to be given in 2006–07. It is not necessary to have taken Religion 1014a to enroll in 1014b. Offered jointly with the Divinity School as 3656b.

**[\*Religion 1027. Weeping in the Religious Imagination:Seminar]**

Catalog Number: 4305

*Kimberley C. Patton (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Emblems of powerlessness, tears paradoxically conjure power, productive fertility, and wholeness. This seminar examines in social and historical context the role of tears, weeping, and lamentation in the religious imagination, including non-spontaneous weeping and “spiritual tears.” Traditions studied will include Greek, classical Aztec, African, early and medieval Japanese, Muslim, Jewish, and Eastern Christian. We will also read selected sociological and theological works on religious weeping.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3821.

**Religion 1040. Introduction to Comparative Theology and Theology of Religions**

Catalog Number: 3278

*Francis X. Clooney (Divinity School)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course examines the processes by which theologians study other religions’ theologies and bring this learning into dialogue with their own traditions through careful comparison, dialogical reflection and, ideally, a subsequent, well-informed theology of religions. Readings include (by way of the necessary concrete example) Hindu primary texts and texts from the Roman Catholic magisterial and theological traditions, but students will be encouraged to bring their knowledge of and interest in other traditions into the class discussions.

*Note:* Offered jointly with the Divinity School as 3101.

*Prerequisite:* Prior knowledge of either tradition, though desirable, is not required.

**Religion 1054. The Self and Virtue in a Comparative Perspective: Seminar**

Catalog Number: 9296

*Jonathan Schofer (Divinity School)*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

The key questions driving this course are: how do individuals and groups understand the nature of the self or person, and what are their ideals for character and action? We will examine two methodological approaches to these questions: virtue ethics and subject formation. The readings will also address cultures from a range of times and locations, including ancient China, ancient Greece, medieval Europe, and contemporary Egypt and Indonesia.

*Note:* Offered jointly with the Divinity School as 3796.

**Religion 1060. Hindu Goddesses and the Virgin Mary: An Experiment in Comparative Theology**





Catalog Number: 3293

*Francis X. Clooney (Divinity School)*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course explores gender and the divine first by reading several primary texts of Hindu religious traditions, how goddesses are envisioned and gender constructed in an environment where both gods and goddesses are worshipped. Second, the course examines the cult of the Virgin Mary in light of its historical and theological dimensions particularly in several Marian texts.

*Note:* Offered jointly with the Divinity school as 3416.

*Prerequisite:* Prior knowledge of either tradition, though desirable, is not required.

**Religion 1061. Reading Hindu Texts Interreligiously I: The Upanisads and Advaita: Seminar**

Catalog Number: 3296 Enrollment: Limited to 15.

*Francis X. Clooney (Divinity School)*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

This seminar is for students interested in the study of primary Indian/Hindu texts, read in translation and in the context of a comparative dynamic of reading across the boundaries of traditions. The fall semester's texts include basic Upanisads and their reception in the Advaita Vedanta tradition (exemplified by the Verses [Karikas] of Gaudapada and the Crest Jewel of Discrimination [Vivekacudamani, attributed to Sankara]), and in turn read in light of excerpts from classics of the Christian theological tradition.

*Note:* Offered jointly with the Divinity school as 3919.

*Prerequisite:* No language or course prerequisites, but students will be encouraged to make use of any such expertise.

**Religion 1062. Religion Reading Hindu Texts Interreligiously II: Vedanta Desika's Srimad Rahasya Traya Sara:**

Catalog Number: 3313 Enrollment: Limited to 15.

*Francis X. Clooney (Divinity School)*

*Half course (spring term). W., 3–5:30. EXAM GROUP: 8, 9*

See course description of Religion 1061. This term's text, the Srimad Rahasya Traya Sara of the Srivaishnava theologian Vedanta Desika, is an 14th-century treatise of spiritual theology that both summarizes and argues persuasively for the Srivaishnava practice of total surrender to God. It will be read in light of the theistic Vedanta and Srivaishnava background, Desika's other works, and with excerpts from classics of Christian spiritual theology.

*Note:* Offered jointly with the Divinity school as 3920.

*Prerequisite:* No language or course prerequisites, but students will be encouraged to make use of any such expertise.

**[Religion 1063. South Asian Religious Aesthetics: Seminar]**

Catalog Number: 8607 Enrollment: Limited to 15.

*Anne Elizabeth Monius (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An examination of South Asian theories of aesthetics and their relevance for understanding Hindu, Buddhist, and Jain discourses of ethics, literature, and theology.



*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3925.

*Prerequisite:* Previous coursework in the religious history of South Asia.

**[Religion 1075. Jerusalem: An Interdisciplinary Inquiry]**

Catalog Number: 3014

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A holy city for three faiths, the focus of poetry, song, legend, and ideology, and a continuing political flashpoint, Jerusalem provides a rich case study in religious history, art and architecture, theology, and the phenomenology of sacred space. It also provides a critical test for inter-faith dialogue and peace-making. Utilizing a variety of disciplines, we will explore the meanings Jerusalem has had in the past and consider alternative solutions to current questions about its future.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2505.

**[Religion 1076. Fundamentalisms]**

Catalog Number: 8243

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A comparative investigation of ultra-conservative movements within five different religious traditions: Jewish “Settler” theology; Roman Catholic cases such as Opus Dei; Protestant Christian Zionism; Islamic radicalism (Hamas).

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2511.

**[Religion 1085. Women, Religion, and Theory: Seminar]**

Catalog Number: 9239 Enrollment: Limited

*Leila Ahmed (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This seminar will explore commonalities and differences in feminist issues, strategies, and methodologies across a number of religious traditions as they find expression in a variety of works, including those of some key feminist scholars. We will read texts on women and religion, as well as relevant texts in feminist and post-colonial theory.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2687.

***Cross-listed Courses***

[Anthropology 1060 \(formerly Anthropology 166\). Archaeological Science](#)

[Anthropology 1630 \(formerly Anthropology 132\). Anthropology of Religion](#)

[\[Celtic 150. Celtic Paganism\]](#)

[\\*Folklore and Mythology 97b \(formerly \\*Folklore and Mythology 103\). Oral Literature and the History of Folkloristics](#)

[\[Indian Studies 118. Indian Philosophy: Advanced Introduction\]](#)

***Primarily for Graduates***



**\*Religion 2001. The Cultural History of the Study of Religion**

Catalog Number: 0644

Robert A. Orsi (Divinity School)

*Half course (fall term). F., 9–11. EXAM GROUP: 2, 3*

An examination of the cultural history of the study of religion from early modernity to the present, in the university as a new academic discipline and in other venues, including missions, colonial engagements, museums, and exhibitions.

*Note:* Limited to first-year doctoral students. Offered jointly with the Divinity School as 4599.

**\*Religion 2002. Major Themes in the Study of Religion: Seminar**

Catalog Number: 0803

Robert A. Orsi (Divinity School)

*Half course (spring term). Tu., 10–12. EXAM GROUP: 12, 13*

A consideration of the issue of comparison in the study of religion. Problems in comparing religious phenomena are discussed through the preparation and presentation of sample course syllabi on particular themes across diverse religious traditions.

*Note:* For all second-year doctoral students in the Study of Religion.

**Religion 2030. Modern Historiography and the Study of Religion: Seminar**

Catalog Number: 0070

Anne Elizabeth Monius (Divinity School)

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

This seminar offers an intensive examination of modern historiographical theory and considers its potential application to the study of pre-modern and early modern religious traditions and communities.

*Note:* Limited to doctoral students and advanced masters-level students. Offered jointly with Divinity School as 3930.

**[Religion 2040. Religion and Human Rights]**

Catalog Number: 8115

David Little (Divinity School)

*Half course (fall term). Hours to be arranged.*

We consider the legal, historical, theoretical, and practical connections between religion and human rights. Debates over universality, particularly in relation to religious freedom and nondiscrimination, are given special attention. Recent theoretical and empirical work, particularly in Asia, Africa, the Middle East, and Europe, is taken up.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2800.

**[Religion 2041. Conscience and Its Freedom: Seminar]**

Catalog Number: 7093

David Little (Divinity School)

*Half course (spring term). Hours to be arranged.*

A consideration of the meaning and significance of the concept of conscience. The seminar will examine the history of the idea in Western thought, and give some attention to its place in Islamic and other cultural settings. It will also touch on the role of conscience in contemporary human rights discourse. It will take up contemporary philosophical, theological, and legal



problems associated with the term.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2810.

**[Religion 2042. Religion, Nationalism, and Peace]**

Catalog Number: 7857

*David Little (Divinity School)*

*Half course (spring term). Hours to be arranged.*

The literature on nationalism and ethnicity as it bears on conflict, with special focus on the role of religion, in cases such as Sri Lanka, Sudan, Northern Ireland, Israel, the Palestinian Authority, and Bosnia. Attention to how religion may function constructively.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2812.

**[Religion 2043. Religion, Justice, and Peace]**

Catalog Number: 9558

*David Little (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Assesses four areas of inquiry: how peace agreements are made, how they are implemented, how they are enforced, and how conditions congenial to peace are cultivated. The problems of justice posed by attempting to enforce or build peace.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2814.

**\*Religion 2055. Religion and Democratic Theory: Seminar**

Catalog Number: 6070 Enrollment: Limited to 15.

*Ronald Thiemann (Divinity School)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines the relationship between religious reflection and democratic theories of various types. Topics covered include: liberal political theory and theological critique, religious practice and radical democratic theory, cultural/religious diversity and religious truth-claims, religion and public life, and feminist theory and democratic practice. Also considers religion and democratic theory in cross-cultural perspective.

*Note:* Among the authors considered will be Seyla Benhabib, Dipesh Chakrabarty, Ernesto Laclau, Chantal Mouffe, Reinhold Niebuhr, Martha Nussbaum, John Rawls, and Adoukharim Saroush. Offered jointly with the Divinity School as 2538.

***Graduate Courses of Reading and Research***

**\*Religion 3005. Doctoral Colloquium in Religion, Gender, and Culture**

Catalog Number: 8016

*Elisabeth Schüssler Fiorenza (Divinity School) 3193*

*Half course (fall term; repeated spring term). W., 10–12.*

The colloquium will explore key-topics and works in women's/gender/feminist studies in religion.

*Note:* This colloquium is required for all pre-Generals doctoral students as well as for those admitted as ThM students in Religion, Gender and Culture. Doctoral students from other departments or BTI schools as well as advanced Master's level students who intend to apply to



the RGC program or plan to major in this field of study should contact the instructor in advance.  
Offered jointly with the Divinity School as 2698.

## ***Ancient Near Eastern and Israelite***

### ***Cross-listed Courses***

[\*\*Ancient Near East 102. Introduction to Mesopotamian Religion\*\*](#)

[\*\*Ancient Near East 117. Biblical Archaeology\*\*](#)

[\*\*Ancient Near East 120. Introduction to the Hebrew Scriptures\*\*](#)

[\*\*Ancient Near East 135. Biblical Theology: Hebrew Bible\*\*](#)

[\*\*\\*Comparative Literature 211. Mysticism and Literature: Seminar\*\*](#)

[\*\*Early Iranian Civilizations 102. Old Iranian Religion/Zoroastrianism\*\*](#)

[\*\*Early Iranian Civilizations 103. Manicheism\*\*](#)

[\*\*\[Sumerian 146. Sumerian Religious Literature\]\*\*](#)

## ***Judaic***

### ***For Undergraduates and Graduates***

[\*\*Religion 1212a. Judaism: The Liturgical Year\*\*](#)

Catalog Number: 5679

*Jon D. Levenson (Divinity School)*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

An introduction to the Jewish tradition through an examination of its liturgical calendar. The ancient Near Eastern affinities and biblical forms of the Jewish holidays; the observance of the holidays in rabbinic law, their characteristic themes as developed in rabbinic non-legal literature, their special biblical readings, the evolution of the holidays over the centuries, contemporary theological reflection upon them. Emphasis on classic texts, focus on theological and literary issues.

*Note:* Offered jointly with the Divinity School as 1667a/3667a.

[\*\*Religion 1212b. Judaism: The Liturgical Year\*\*](#)

Catalog Number: 8074

*Jon D. Levenson (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A continuation of Religion 1212a.

*Note:* Offered jointly with the Divinity School as 1667b/3667b.

*Prerequisite:* Religion 1212a.

[\*\*Religion 1230. Rabbinic Ethics and Self-Cultivation\*\*](#)

Catalog Number: 6591

*Jonathan Schofer (Divinity School)*

*Half course (spring term). Tu., Th., at 4. EXAM GROUP: 18*

This course examines classical rabbinic understandings of spontaneous impulses and desires, and the ways that rabbis sought to transform themselves through the instruction of exemplary sages.



We will examine how these concerns were linked with other aspects of rabbinic culture, including the body, sexuality, gender, community, tradition, and theology. The readings will also include theoretical discussions of ethics and self-cultivation, as well as some comparative material.

*Note:* Offered jointly with the Divinity School as 3638.

**[Religion 1255. Selected Works of Twentieth Century Jewish Theology]**

Catalog Number: 0830

*Jon D. Levenson (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A close reading of selected works of Jewish theology from the twentieth century, with special attention to the questions of God, Torah, and Israel and to the thinkers' understanding of Christianity in relation to Judaism. Authors read will be drawn from the following: Baeck, Buber, Rosenzweig, Heschel, Soloveitchik, Fackenheim, Kaplan, Strauss, and Wyschogrod.

*Note:* Expected to be given in 2006–07. Offered jointly by the Divinity School as 3668.

**[Religion 1260. Midrash: Jewish Biblical Interpretation in the Rabbinic Period]**

Catalog Number: 2424

*Jon D. Levenson (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An introduction to the way the rabbis of the Talmudic period interpreted their Bible. Close reading in English of a range of midrashic literature, halakhic and aggadic, exegetical and homiletical, Tannaitic and Amoraic. Emphasis on literary assumptions and theological affirmations. Consideration of the affinities and contrasts of midrash with early Christian biblical interpretation and with contemporary literary theory.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3669.

***Cross-listed Courses***

[Hebrew 150a. Introduction to Rabbinic Literature](#)

[\[Hebrew 174. Political Thought: Late Antiquity through the Middle Ages\]](#)

[Jewish Studies 111. Modern Jewish Thought](#)

***Greek, Hellenistic, Roman***

***For Undergraduates and Graduates***

**[\*Religion 1305. Emerging Topics in Greek Religion: Seminar]**

Catalog Number: 5630 Enrollment: Limited to 15.

*Kimberley C. Patton (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Examines dimensions in the religious history of Greece neglected until recently, e.g., magic; talismanic and apotropaic beliefs and practices; miasma and catharsis; curse tablets and binding spells; lamentation; the semiotic values of women's handwork; sacred images in cult and society; social aspects of sanctuaries; dreams; time; and the popular construction of evil. The seminar will offer an intensive survey of important work on these "new" topics in ancient Greece.



*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3815.

*Prerequisite:* No language prerequisite; some background in ancient Greek religion preferred.

**[Religion 1315. Prophecy, Ecstasy, and Dreams in Early Christian History]**

Catalog Number: 7435

*Laura S. Nasrallah (Divinity School)*

*Half course (fall term). Hours to be arranged.*

In the Graeco-Roman world, prophecies, ecstasies, and dreams were considered important ways in which the divine communicated with humans. We explore the history of early Christian debates over prophecy and ecstasy and places them within a broader context. We read various philosophical, theological, novelistic, and political texts from the first century BCE through the fourth century CE. We address questions of how these debates over prophecy and ecstasy connect with issues of power, gender, anthropology, socioeconomics, and religious identity.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1546.

***Cross-listed Courses***

**Literature and Arts C-14. Concepts of the Hero in Greek Civilization**

***Primarily for Graduates***

**[Religion 2348ab. Archaeology and the World of the New Testament: Seminar]**

Catalog Number: 4069 Enrollment: Limited to 12.

*Laura S. Nasrallah (Divinity School) and David G. Mitten*

*Full course (spring term). Hours to be arranged.*

First half introduces students to work with archaeological data from the Graeco-Roman world (inscriptions, architecture, sculpture, coins). Second half consists of on-site seminars in Greece and Turkey during the month of May under the leadership of Greek, German, Austrian, and American archaeologists.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1870.

*Prerequisite:* Greek and French or German; two half courses in the study of ancient Christianity and/or Graeco-Roman religion, history, and archaeology. Course may be divided with permission of instructors.

***Christianity***

For additional courses on Christian Studies, see the catalog of the Divinity School.

***For Undergraduates and Graduates***

**Religion 1400. Introduction to the New Testament: History and Interpretation**

Catalog Number: 4486

*Laura S. Nasrallah (Divinity School)*

*Half course (spring term). Th., 1–3, and an hour to be arranged. EXAM GROUP: 15, 16*

The texts of the New Testament emerged in the diverse social and complex political context of





the Roman empire. Examines historical-critical approaches that attempt to set New Testament texts within their first- and second-century contexts, pays special attention to archaeological materials which aid our understanding of the world from which these texts emerged, and considers how and why these particular texts came to be a canon.

*Note:* Offered jointly with the Divinity School as 1202.

**[Religion 1409. The New Testament, Biblical Studies, and Empire: Seminar ]**

Catalog Number: 3075 Enrollment: Limited to 15.

*Laura S. Nasrallah (Divinity School)*

*Half course (fall term). Hours to be arranged.*

The intersection of the New Testament and postcolonial theory. We shall study not only the Roman imperial context in which the New Testament was written, but also 19th and 20th century approaches to the Bible, and the way in which their sometimes orientalizing enterprises constructed the field of biblical studies. Special attention paid to biblical archaeology, quests for the historical Jesus, and the academic institutionalization of biblical studies.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1887.

**[Religion 1414. Gospel Stories of Women]**

Catalog Number: 6902

*Elisabeth Schüssler Fiorenza (Divinity School)*

*Half course (spring term). Tu., 1–3; with meetings Tu., at 12.*

The course will engage a critical feminist reading of texts in order to assess whether they are “good news” for wo/men. Special attention will be given to feminist reconstructions of early Christian beginnings. Discussions will focus on hermeneutical-theological questions and their consequence for contemporary religious self-understanding and ministerial praxis. Lectures, group discussions, and group projects seek to foster a participatory, democratic style of learning.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1503/ 2557.

**Religion 1415. Paul and His Afterlife: Seminar**

Catalog Number: 7861 Enrollment: Limited to 15.

*Laura S. Nasrallah (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This seminar focuses on materials from the first few centuries and on recent trends in Pauline scholarship. The class will study the Pauline epistles in their first-century historical context, as well as some pseudepigrapha and other early interpretations of Paul. We will also investigate recent trends in Pauline interpretation, including feminist interpretation, postcolonial interpretation, the “New Perspective” on Paul and uses of Paul by European philosophers (Zizek, Badiou).

*Note:* Offered jointly with the Divinity School as 1880.

*Prerequisite:* One year of Greek and one course in New Testament/Early Christianity or Greco-Roman history or permission of the instructor.

**Religion 1416. Feminist Biblical Interpretation**

Catalog Number: 3002

*Elisabeth Schüssler Fiorenza (Divinity School)*

*Half course (spring term). Tu., 1–3 and a weekly section Tu., at 12. EXAM GROUP: 15, 16*



A basic introduction to the emerging field of feminist biblical studies. We discuss different hermeneutical approaches, methods of interpretation, and theoretical perspectives. Special attention is given to historical interpretation and the significance of feminist hermeneutics for contemporary theological reflection and education for ministry. Lectures, group discussions, and presentations seek to foster a participatory style of learning.

*Note:* Offered jointly with the Divinity School as 1504/2558.

### **Religion 1417. Religion and Politics in Early Christianity**

Catalog Number: 0071

*Elisabeth Schüssler Fiorenza (Divinity School)*

*Half course (fall term). Tu., 1–3 and a weekly section Tu., at 12. EXAM GROUP: 15, 16*

This course explores the political rhetoric of Paul, the Gospels and other Early Christian writings in the context of Greco-roman and Jewish imperial and democratic institutions. Special attention will be given to Scripture and the rhetoric of empire in shaping the religious ethos of Christianity and the Western world.

*Note:* Offered jointly with the Divinity School as 2555.

### **Religion 1420. History of Ancient Christianity**

Catalog Number: 2397

*Helmut H. Koester (Divinity School)*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Christian history from the beginnings to the end of the fourth century in its political and cultural context. The course will discuss Jesus and Paul and the diversity of beginnings, the process of institutionalization, establishment of offices and of the canon of the Holy Scriptures, orthodoxy and heresy, Montanism and Gnosticism, philosophy and the theology of the Church Fathers, development of doctrine, persecutions and martyrdoms, and the controversies and ecumenical councils of the fourth century.

*Note:* Offered jointly with the Divinity School as 1260/2145.

### **Religion 1421. The Gospel of Luke**

Catalog Number: 8662

*François Bovon (Divinity School)*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

A literary, historical, and theological interpretation of some chapters of the Greek text of Luke's Gospel. Exegetical discussion will focus on Luke's style, art of composition, and sources, as well as his situation in the history of Christianity. Late Antique Christianity and Reformation interpretations of Luke will be compared from time to time with the work of modern exegetes.

*Note:* Offered jointly with the Divinity School as 1511.

*Prerequisite:* Three terms of Greek.

### **Religion 1422. History of the Exegesis and Reception of the Gospel of Luke**

Catalog Number: 0072 Enrollment: Limited to 15.

*François Bovon (Divinity School) and Kevin J. Madigan (Divinity School)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A study of the exegesis and reception of the Gospel of Luke in history, stressing the interpretation of the Gospel in the period ca. 200–1600. After studying Luke in its original



context, the seminar will turn to commentaries, sermons, and artistic representations of all or parts of the Gospel, as well as to hermeneutical theory from the ancient world.

*Note:* Offered jointly with the Divinity School as 1872.

*Prerequisite:* A major research language (Latin, Greek, or Syriac) helpful, but not required.

**[Religion 1423. First Images of Christ—Earliest Christologies of the New Testament]**

Catalog Number: 8983

*François Bovon (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Will discuss the earliest forms of christology and their history. Starting from the Jewish messianic expectations of the first century C.E., it will investigate the prophetic perspective of Jesus and christological concepts of the first Christian congregations.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1479.

*Prerequisite:* Introduction to the New Testament or equivalent.

**[Religion 1424. The First Epistle to the Corinthians]**

Catalog Number: 1514

*François Bovon (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This course will focus on Paul's historical and theological argument through a careful reading of the Greek text. An attempt will be made to reconstruct the social setting of the first Christian community in Corinth. Course may be elected as the equivalent of the fourth term of Greek.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1521

*Prerequisite:* One year of Greek.

**Religion 1426. The Apocryphal Jesus and the Noncanonical Apostles: Introduction to Ancient Christian Apocryphal Literature**

Catalog Number: 8930

*François Bovon (Divinity School)*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Begins by exploring the field of non-canonical gospels, particularly Greek fragments of lost Gospels, then devotes a longer time to the apocryphal acts of the apostles, particularly to the *Acts of Philip*, and concludes by reading the *Apocalypse of Peter* and the *Apocalypse of Paul*.

*Note:* Offered jointly with the Divinity School as 1270/2130.

**[Religion 1427. Orthodoxy and Heresy in Ancient Christianity]**

Catalog Number: 3574

*Karen L. King (Divinity School)*

*Half course (fall term). Hours to be arranged.*

An examination of the dynamics of early Christian identity formation, including the development of discourses of orthodoxy and heresy, practices of interpreting Scripture, and categories of religious identity. Focuses on reading the primary literature, with special attention to those types of early Christianity later deemed heretical (for example, Marcion, Valentinian Christianity, and Sethian Gnosticism, as well as *The Gospel of Thomas*, *The Gospel of Mary*, and *The Apocryphon of James*).

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1700.



*Prerequisite:* Introduction to the New Testament or History of Ancient Christianity, or the equivalent.

**Religion 1430. Trinitarianism and Anti-trinitarianism—the Christian God in Dispute: Conference Course**

Catalog Number: 3356 Enrollment: Limited to 25.

*Sarah Coakley (Divinity School)*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*

This course will cover key moments of debate in patristic, medieval, early modern, modern and contemporary theologies of the Trinity. Anti-trinitarian critiques (Arian, Socinian, Unitarian) will be given close attention, as will current attempts at rapprochement between ‘Eastern’ and ‘Western’ doctrines of the Trinity.

*Note:* Offered jointly with the Divinity School as 2654.

**Religion 1434. History of Western Christianity, 300–1100**

Catalog Number: 5783

*Kevin J. Madigan (Divinity School)*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Church and society in western Europe from the fourth through the twelfth century. Early and high medieval Christianity in social and cultural context, with attention to popular religious belief and behavior as well as to the institutional church and its leaders.

*Note:* Offered jointly with the Divinity School as 2230.

**Religion 1437. History of Western Christianity: 1100–1500**

Catalog Number: 5997

*Kevin J. Madigan (Divinity School)*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Church and society in western Europe during the high and late Middle Ages. Particular attention will be paid to theological and institutional change and continuity and to popular religious movements.

*Note:* Offered jointly with the Divinity School as 2250.

**[Religion 1438. The Friars and Their World, ca. 1100–1325]**

Catalog Number: 0851 Enrollment: Limited to 15.

*Kevin J. Madigan (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Will focus on primary texts in English having to do with the origins and development of the Franciscans and Dominicans, the two major orders of friars in the high Middle Ages. We will look at these texts also as a way into the social and religious worlds of the 13th and 14th centuries. Topics include mendicant origins, mission, and hagiography; tension within the orders and between them; heresy and inquisition; apocalyptic thought; scholasticism and the universities; and relations with the papacy.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2252.

**Religion 1439 (formerly Religion 1514). The History of Christianity: An Introduction to Interpretive Issues**



Catalog Number: 6685 Enrollment: Limited to 15.

*David D. Hall (Divinity School) and Kevin J. Madigan (Divinity School)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

An introduction to the interpretive literature of the history of Christianity in Europe and North America. Focus on major debates and the evolution of theory and method in “religious history.” Topics may include the transition from “church history” to “religious culture,” the “triumph of Christianity” in the Roman Empire, the evolution of papal primacy, the causes of the Reformation, the nature of “popular religion,” and American “exceptionalism.”

*Note:* Offered jointly with the Divinity School as 2392.

### **Religion 1442. Luther’s Dangerous Doctrines: Conference Course**

Catalog Number: 5388

*Christine M. Helmer (Divinity School)*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

If theology is to be bold and relevant, then it must articulate doctrines that are dangerous in terms of their theological power and their socio-political effect. This course introduces Luther’s thought by analyzing his dangerous doctrines in their historical context, by examining them in systematic arrangement from the doctrine of God to the Christian life, and by engaging their power to address contemporary issues. Intensive reading is based on Luther’s texts and selected secondary literature.

*Note:* Offered jointly with the Divinity School as 1442.

### **[Religion 1448. Christianity, Mission, and the “Other”: Seminar]**

Catalog Number: 8843 Enrollment: Limited to 20.

*Patrick Provost-Smith (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This seminar will explore a number of historical, theological, and theoretical problems in the history of Christian encounters with ‘others.’ We will consider debates over the meaning of “conversion,” the geo-political expansion of Christendom, various historical paradigms of Christian missionary activity, the problems of colonialism and imperialism, and contemporary discussions of mission in a religiously plural world. Attention will also be given to the historiographical problems of “mission history.”

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2272.

### **Religion 1451. Christian Thought: Renaissance and Early Modern**

Catalog Number: 8766

*Patrick Provost-Smith (Divinity School)*

*Half course (fall term). M., W., at 9 and an hour to be arranged. EXAM GROUP: 2*

Explores major movements in Christian thought from the “crisis of Christianity” recognized by early Renaissance humanists to the consolidation of confessional Christian identities in the early 17th century. Problems will include the meaning of the “Renaissance,” the intellectual landscape of Protestant and Catholic reformations, and the expansion of Christianity to the Americas and Asia.

*Note:* Offered jointly with the Divinity School as 2282.



**[Religion 1452. Christian Thought: Early Modern to Modern]**

Catalog Number: 0890

*Patrick Provost-Smith (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Explores major trajectories and problems in Christian thought from the "wars of religion" in the 17th century through the challenges posed by the Enlightenment, social revolution, and colonial enterprises in the 19th century. We also will look at the problems posed by Christianity in other parts of the world other than Europe (e.g. Chinese rites controversy and missionary experience under the British Empire).

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2285.

**Religion 1457. Renaissance Thought: Utopia and its Critics: Seminar**

Catalog Number: 3165 Enrollment: Limited to 20.

*Patrick Provost-Smith (Divinity School)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Reading the "utopias" of Thomas More and Francis Bacon, with examination of the intellectual context for these works, and attention to the development of "utopia" as a philosophical critical genre. We will then read contemporary philosophical material on "utopia," from Ernst Bloch and the early Frankfurt School.

*Note:* Offered jointly with the Divinity School as 2284.

**Religion 1468. Religion in America: From the Coming of the Europeans to the 1870s**

Catalog Number: 2509

*David D. Hall (Divinity School)*

*Half course (fall term). Tu., Th., at 10; and an hour to be arranged. EXAM GROUP: 12*

Encompassing both "mainstream" and insurgent, "popular" or "new" forms of religion (e.g., the Society of Friends, Mormonism, African-American Protestantism), this survey course deals with the history of Christian thought; changing patterns of religious practice; and religion and society in the context of the regulating and/or liberating "reform" movements of the 19th century.

*Note:* Offered jointly with the Divinity School as 2303.

**[Religion 1470. Introduction to Ethics]**

Catalog Number: 2884

*Arthur J. Dyck (Public Health, Divinity School)*

*Half course (fall term). Hours to be arranged.*

An introductory analysis of the major questions of ethics regarding the identification, justification, and attainment of what is moral for individuals and communities. Readings include classical and modern texts, both philosophical and theological, and acquaint the student with contemporary modes of moral reasoning.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2700.

**Religion 1472. The Ethical and Religious Thought of Martin Luther King, Jr.**

Catalog Number: 8761

*Preston N. Williams (Divinity School)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

A study of the life, thought, and actions of Martin Luther King, Jr. An ethical analysis of his





primary concepts, ideas, and strategies based upon a reading and discussion of his writings and their sources.

*Note:* Offered jointly with the Divinity School as 2721.

**[Religion 1478. Liberation Theology: Systematic and Contextual]**

Catalog Number: 2556

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Historical and religious sources of Liberation Theology in Latin America; variants in Asia and Africa; theological, political, and philosophical criticisms (e.g. Papal questions and “Radical Orthodoxy”); emerging Evangelical, Pentecostal, and non-Christian liberation theologies.

*Note:* Expected to be given in 2006–07. Separate requirements for undergraduate and graduate students. Offered jointly with the Divinity School as 2510.

**[Religion 1479. Liberation Theology in the Americas]**

Catalog Number: 5346

*Thomas A. Lewis*

*Half course (fall term). Hours to be arranged.*

Liberation theology seeks to bring the social teachings of Christianity to bear on political and economic injustice. This course treats liberation theologies as socially grounded, politically engaged currents in religious thought. Focusing on Latin America, we will investigate the historical contexts and central themes of liberation theology: the relationship between theory and practice, the political function of the church, the relation between political freedom and salvation, and the role of intellectuals.

*Note:* Expected to be given in 2007–08. Offered jointly by the Divinity School as 2472.

**[Religion 1481. Introduction to Catholicism]**

Catalog Number: 4993

*Thomas A. Lewis*

*Half course (spring term). Hours to be arranged.*

Explores Catholicism in its diversity, with emphasis on the modern world. Students examine early developments of Christian theology and consider how Catholicism has responded to modern challenges including modern science, democratic ideals of equality, changing social values, increasing knowledge of other cultures, and struggles against injustice and poverty. Religion is viewed not simply as abstract ideas but in relation to social context and the lived religious practices of Catholics around the world.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2474.

**[Religion 1482. The Catholic Experience in the US]**

Catalog Number: 9510

*Robert A. Orsi (Divinity School)*

*Half course (spring term). Hours to be arranged.*

The varieties of Catholic cultures and practices from the colonial period to the present. Topics include: Catholicism and American liberalism; Catholic popular piety on American streets and farms; Catholic political radicalism; the rise of the Catholic school system; Catholics and American modernity; Catholics and public morality and civic culture in the US (motion picture





censorship, for example, the anti-abortion debate).

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2310.

**[Religion 1483. The Catholic Sixties]**

Catalog Number: 8882 Enrollment: Limited to 35.

*Robert A. Orsi (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An examination of profound change across US Catholic culture in the middle years of the 20th century, of the interplay of religious and social transformations. Topics include the Catholic anti-war movement; the new immigrations (from Haiti, for example) and of continuing migration from Mexico; the encounter with race and the cities; the new lives of women religious; sacrilege as cultural practice; memory and the making of popular historical consciousness.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2309.

**[Religion 1489. Contemporary Interpretations of Jesus]**

Catalog Number: 6437

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Beginning with the narratives of the life of Jesus in the Synoptic Gospels (Matthew, Mark, and Luke), we cover four current efforts to reclaim his significance: 1) the new search for the “historical Jesus,” especially the Jesus Seminar and its critics; 2) emerging Asian, African, and Latin-American Christian views of Jesus; 3) recent interpretations of Jesus in such non-Christian faiths as Judaism, Islam, Buddhism, and Hinduism; and 4) images of Jesus in music, film, and literature.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2483.

**[Religion 1491. Themes in Christian “Spirituality”: Theories of Prayer, Self and Gender]**

Catalog Number: 3824

*Sarah Coakley (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This course surveys a number of distinctive theories of prayer, meditation, and contemplation in the Christian tradition (both East and West) up to the 16th century CE, and analyzes how the discourse of prayer-practice is interwoven with presumptions about the nature of the (gendered) self.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2439.

**[Religion 1492. Introduction to Christian Theology]**

Catalog Number: 2161

*Sarah Coakley (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A basic course for beginning students which analyzes different approaches to Christian theology as evident in classic, modern, and contemporary theological texts.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2401.

**[Religion 1493. Contemporary Roman Catholic Theology]**

Catalog Number: 6926



*Francis Fiorenza (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A survey of contemporary Roman Catholic theology that discusses issues in the interpretations of God, Jesus, and the church with reference to theological method. The broad spectrum of present-day Roman Catholic theology will be covered through an analysis of diverse theologians and approaches: existential, transcendental, liberationist, feminist, analytical, and hermeneutical.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2479.

**[Religion 1495. Introduction to Theological Thinking]**

Catalog Number: 5154

*David Lamberth (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A basic survey of a variety of approaches to theology through selected major figures. We will consider: What is the nature of theology? How are theological questions posed and answered? What is distinctive about each author's view? We will also be concerned with what theological thinking is today, and its relation is to other fields of inquiry. Authors are drawn from the early medieval and contemporary periods, and are mostly Christian.

*Note:* Expected to be given in 2006–07. Offered by the Divinity School as 2402.

**Religion 1498. Problems in Contemporary Theology: An Introduction**

Catalog Number: 5367

*Christine M. Helmer (Divinity School)*

*Half course (fall term). Th., F., at 1. EXAM GROUP: 6, 15*

This course surveys the basic problems that theologians address. We will focus on how problems, such as love and evil, are analyzed, both in dialogue with representative theologians of the West and in view of theological consensus regarding how this dialogue can take place. We will also look at the relations between diverse genres of theological expression (for example, sermons, hymns) in order to appreciate how theology is communicated in different contexts.

*Note:* Offered jointly with the Divinity School as 2404.

***Cross-listed Courses***

**History 2630hf. Intellectual History: Seminar**

**\*History 2662hf. Readings in American Thought**

**Medieval Greek 115ar. Introduction to Byzantine Greek**

**[Medieval Studies 125. The Spirit's Voices: Holy Women in Medieval Christianity]**

***Primarily for Graduates***

**[Religion 2401. Disciplinary Matters]**

Catalog Number: 7788 Enrollment: Limited to 10.

*Elisabeth Schüssler Fiorenza (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Focuses on New Testament studies but raises issues that are significant for all areas of theological and religious studies. Examines the history, methods, research areas, educational



practices and theoretical paradigms of the discipline.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 1885.

**[Religion 2426. Editing Greek Christian Literature: Seminar]**

Catalog Number: 9005

*François Bovon (Divinity School) and John Duffy*

*Half course (spring term). Hours to be arranged.*

We explore the several-step preparation of a scholarly text edition. The introductory sessions focus on heuristic questions: how to track down manuscripts of authors and individual works; how to find library catalogs and descriptions; how to obtain copies of documents. The rest of the course is devoted to a hands-on exercise in editing and translating one or more short Greek Christian texts, particularly apocryphal texts.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 1874.

*Prerequisite:* A course in Greek Paleography, and a strong background in Greek.

**Religion 2464. Radical Religion in England and America, 1550–1750: Seminar**

Catalog Number: 5810 Enrollment: Limited to 20.

*David D. Hall (Divinity School)*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

The history of the Puritan movement in the context of the Reformation and the Reformed tradition; mainstream and radical movements, including Quakerism. A reading seminar, using primary materials and the major historiography.

*Note:* Offered jointly with the Divinity School as 2270.

**[Religion 2471. Eucharistic Theology—Contested Questions: Seminar]**

Catalog Number: 4317 Enrollment: Limited to 12.

*Sarah Coakley (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This seminar provides an in-depth discussion of four contested topics in historical and contemporary Eucharistic theology: the status of the minister/priest as *in persona Christi*; the eucharist as 'sacrifice'; the eucharist as 'gift'; and the issue of 'real presence'. Historic liturgical and theological texts will be brought into discussion with contemporary ritual and gender theory with an eye to a fresh, ecumenical assessment of these themes.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity school as 2446.

*Prerequisite:* Advanced work in theology or philosophy.

**Religion 2472. The Metaphysics of the Incarnation – Ancient, Modern and Contemporary Christology: Seminar**

Catalog Number: 3422

*Sarah Coakley (Divinity School)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

Examines the formative developments of Christology in the patristic period, with a focus on the problems of interpreting the Definition of Chalcedon (451), and the variety of its later interpretations in medieval, Reformation and modern thought.

*Note:* Offered jointly with the Divinity School as 2655.



**[Religion 2475. Teresa of Avila and John of the Cross: 'Mystical Theology,' Epistemology and Gender: Seminar]**

Catalog Number: 7330 Enrollment: Limited to 15.

*Sarah Coakley (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This seminar undertakes a close reading of the theories of prayer and self propounded by the 16th-century Carmelites, Teresa of Avila and John of the Cross. The course will be framed by a critical examination of the use (and misuse) of the Carmelites in some influential works of modern psychology, analytic philosophy, cultural theory, and gender theory.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity school as 2448.

*Prerequisite:* Graduate work in theology or philosophy.

**[Religion 2477. God]**

Catalog Number: 8838 Enrollment: Limited to 12.

*Francis Fiorenza (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An analysis of select 20th-century theologians in their approach to the issue of the knowledge of God and in their interpretations of the nature of God.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2634.

**[Religion 2480. Karl Barth: Seminar]**

Catalog Number: 8592 Enrollment: Limited to 12.

*Ronald Thiemann (Divinity School)*

*Half course (fall term). Hours to be arranged.*

An intensive reading and research course on the work of Karl Barth. Attention will be given to the theological and political development throughout his work, including his involvement in the German Church Struggle.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity school as 2535.

*Prerequisite:* At least one course in modern theology.

***Graduate Courses of Reading and Research***

**\*Religion 3420hf. Seminar for Advanced New Testament Students**

Catalog Number: 6026 Enrollment: Limited to 15.

*Laura S. Nasrallah (Divinity School) 4834*

*Half course (throughout the year). Alternate W., 3–5.*

Topic for 2005-06: Apologetics in Antiquity. The seminar will explore what are considered to be ancient apologetic texts, will question the category of apologetic, and will use postcolonial criticism to consider relations of power in “apologetic” literature.

*Note:* A course available to ThM, ThD, and PhD candidates, and qualified MTS and MDiv students with permission of the instructor. Required for ThM candidates in the field and for ThD and PhD candidates until the term following successful completion of general exams. Offered jointly with the Divinity School as 1980.

**\*Religion 3450hf. Colloquium in Religion and Theory**

Catalog Number: 5177 Enrollment: Limited to 25.



*Patrick Provost-Smith (Divinity School) 4808*

*Half course (throughout the year). Tu., 5–7 pm.*

The course will explore “ways of unsaying” in theological and philosophical texts by looking at Christian, Hindu, and Buddhist treatises, and then explore the recovery of “negative theology” in contemporary critical theory.

*Note:* This colloquium will discuss theoretical issues and texts that have had a formative impact on the study of religion, with topics that will vary according to student interest. Past topics have included postcolonial theory and Foucault. Offered jointly with the Divinity School as 2288.

## **Modern Western**

### **For Undergraduates and Graduates**

#### **[Religion 1510. Hegel’s *Phenomenology of Spirit*]**

Catalog Number: 0138

*Thomas A. Lewis*

*Half course (spring term). Hours to be arranged.*

Perhaps the most influential of Hegel’s writings, this work provides an introduction to his thought and considers topics in ethics, philosophy of history, religious thought, and epistemology.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2653.

#### **[Religion 1511. Hegel]**

Catalog Number: 6782

*Thomas A. Lewis*

*Half course (spring term). Hours to be arranged.*

This seminar examines Hegel’s philosophy of spirit, including his conception of human beings, ethics, politics, and the relationship between religion and philosophy. We investigate how these dimensions of his thought fit into the larger system as well as ask what aspects of his thought remain viable today. Readings from the *Encyclopaedia*, *Philosophy of Right*, *Lectures on the Philosophy of History*, and *Lectures on the Philosophy of Religion*.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2652.

#### **Religion 1513. History of Harvard and Its Presidents**

Catalog Number: 1233

*Peter J. Gomes (Divinity School)*

*Half course (spring term). W., F., at 11, and an hour to be arranged. EXAM GROUP: 4*

An exploration of the intellectual and institutional history of America’s oldest college through the examination of four pairs of its 27 presidents. Among themes to be considered are European antecedents, developments in faculty, governance, and curriculum, as well as the maturation of the built environment. Significant attention is paid to the evolution of the religious context of the school, including the practice of and instruction in religion, and the challenges of secularism and pluralism.

*Note:* Offered jointly with the Divinity School as 2297.



**[Religion 1517. The Spirit of American Religious Thought and Philosophy]**

Catalog Number: 8858

*David Lamberth (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Concentrates on important authors in the formative development of American religious thought and philosophy up to the early 20th century, such as Jonathan Edwards, William Ellery Channing, Ralph Waldo Emerson, Henry David Thoreau, C.S. Peirce, William James, and Josiah Royce.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2551.

**[Religion 1520. Introduction to Hermeneutics and Theology]**

Catalog Number: 6184

*Francis Fiorenza (Divinity School)*

*Half course (fall term). Hours to be arranged.*

General introduction to hermeneutical theory. A survey of the development from classical to modern and contemporary hermeneutics. Examines the influence of contemporary hermeneutical theory upon the interpretation of biblical texts, the diverse conceptions of theology, and the explication of key theological categories such as revelation, experience, method, foundations, classics, community, and practice.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2410.

**[Religion 1526. Religion in America from c. 1865 to the 1970s]**

Catalog Number: 8025

*Robert A. Orsi (Divinity School)*

*Half course (spring term). Hours to be arranged.*

American religions from the end of the Civil War to the 1970s. Topics include religions of immigrants and migrants; religion and race; new religious idioms (such as Pentecostalism) and the reinvention of traditions in response to the challenges of modern culture; religious constructions of social and moral issues (e.g., abortion and workers' rights), the religious response to urbanization and suburbanization, religion and gender.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2304.

**[Religion 1530r. Religious Values and Cultural Conflict]**

Catalog Number: 6858

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). Hours to be arranged.*

By reading a number of recent novels and reflecting on both their content and their sometimes controversial reception, we will examine how conflicting theological, cultural, and ethical values find expression. The works considered are *Charming Billy* by Alice McDermott, *The God of Small Things* by Arundhati Roy, *The Beauty of the Lilies* by John Updike, *Children of Men* by P.D. James, *Satanic Verses* by Salman Rushdie, *Left Behind* by Tim LaHaye and Jerry B. Jenkins, *Jazz* by Toni Morrison, and *Lying Awake* by Mark Salzman.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2504.

**[Religion 1534. Feminist Theologies: Contexts and Methods]**

Catalog Number: 3081





*Elisabeth Schüssler Fiorenza (Divinity School)*

*Half course (fall term). Hours to be arranged.*

In the past decades many different feminist religious voices have emerged around the globe. The course will study key feminist thea/ological directions and explore how their theoretical frameworks and methods are shaped by their different socio-cultural-religious locations and struggles. Lectures, group sessions, and projects.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2688.

**[Religion 1536. Introduction to Theology and Culture]**

Catalog Number: 1908 Enrollment: Limited to 30.

*Francis Fiorenza (Divinity School)*

*Half course (fall term). Hours to be arranged.*

A basic introduction to theology and some of its central themes, topics, and issues. Specific attention is given to theological method, the relation between theology and religious studies, and the intersection of theology and culture, and the relation between faith and critical inquiry.

*Note:* Expected to be given in 2006–07.

**[Religion 1541. Kant: Seminar]**

Catalog Number: 5295

*David Lamberth (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A close reading of major works of Kant relevant to theology and philosophy of religion. The seminar focuses on issues such as the nature and limits of reason, the concepts of freedom, morality and faith, and the idea of God.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2674.

*Prerequisite:* Advanced work in theology or philosophy of religion.

**Religion 1542. Kierkegaard: Seminar**

Catalog Number: 0515

*David Lamberth (Divinity School)*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

A close consideration of theological and philosophical issues in the major works of Kierkegaard, both the pseudonymous and Christian writings.

*Note:* Offered jointly with the Divinity School as 2678.

*Prerequisite:* Advanced work in theology or philosophy of religion.

**Religion 1543. 19th-Century Religious Thought: Theology and the Critique of Religion**

Catalog Number: 5065

*David Lamberth (Divinity School)*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

The 19th-century formulated many of the questions and frameworks that continue to dominate theology and religious reflection in the West. We consider the developing interplay between modern Christian theology (primarily continental) and the principal philosophical and social critiques of religion in the 19th-century. Topics include human nature, religion, the divine-human relationship, religious knowledge, the social, and historicity. Readings from Kant,





Schleiermacher, Hegel, Marx, Feuerbach, Kierkegaard, Nietzsche, Harnack, and Troeltsch.

*Note:* Offered jointly with the Divinity School as 2431.

**[Religion 1546. Religion and the American Pragmatic Tradition]**

Catalog Number: 3565

*David Lamberth (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Surveys the American pragmatic tradition, attending to views of the nature and place of religion.

The first part takes up the classical pragmatists, beginning with Emerson as precursor, then focusing on Peirce, James, and Dewey. Topics include belief, experience, truth, action, ethics, rationality, and the nature and role, socially and individually, of religion. The latter part considers contemporary neo-pragmatists, including Rorty, Putnam, Chopp, and Stout. Prior work in theology or philosophy is recommended.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2671.

**[Religion 1547. Modern Theology and the Ends of Modernity]**

Catalog Number: 7008

*David Lamberth (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Continuing Religion 1543, this course considers 20th-century developments within modern theology, focusing on the internationalization and extension of 19th-century derived forms of critique. Begins with the social gospel and kerygmatic theology, and pays particular attention to the emergence of feminist and black liberation theologies in the US, as well as selected developments in postmodern thought. Readings include Anderson, Barth, Cone, Daly, Dewey, Niebuhr, Rauschenbusch, Shüssler-Fiorenza, Tillich, Taylor.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2433.

**[Religion 1549. Media, Religion, and Social Meaning]**

Catalog Number: 3414

*Marla F. Frederick*

*Half course (fall term). Hours to be arranged.*

Looks at the historic development of radio and television ministries and their influence in articulating alternative interpretations of social meaning. In some cases, religious media have disrupted the simple binaries of black/white, rich/poor, male/female. What are the new and/or normalized categories of race, class, and gender presented by contemporary religious media? How might these meanings shift in different local/national as well as transnational settings?

*Note:* Expected to be given in 2006–07.

**Religion 1550. Religion and American Public Life**

Catalog Number: 1431

*Ronald Thiemann (Divinity School)*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

An overview of the issues that arise within American democracy concerning the public role of religion. Covers issues in public theology, democratic political theory, and constitutional law. Concludes with a case study in public policy, considering such issues as religion and welfare



policy, religion and the First Amendment, religion and warfare.

*Note:* Offered jointly with the Divinity School as 2524.

**[Religion 1552. Reason, Tradition, and Modernity: Seminar]**

Catalog Number: 0740

*Thomas A. Lewis*

*Half course (fall term). Hours to be arranged.*

The modern West has been defined largely by pervasive challenges to inherited religious beliefs, ethical mores, and political institutions. Since the Enlightenment, these developments have provoked widespread reflection on the nature and significance of tradition, the limits of reason, as well as the relation between reason and tradition. We will trace this current from the developments of German romanticism through recent “new traditionalist” thought, such as that of Alasdair MacIntyre.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2638.

**[Religion 1558. Religion in the US Between WWI and WWII]**

Catalog Number: 1756

*Robert A. Orsi (Divinity School)*

*Half course (fall term). Hours to be arranged.*

US religious history in the interwar years and the public and academic construal of “religion” in the same period. Topics include religion and labor and accounts of workers’ religion, Middletown’s religion, religion in the WPA guides.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 2311.

**[Religion 1560. Religion and Society in 20th Century America: A Biographical Approach: Seminar]**

Catalog Number: 7061

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course will focus on representative figures in the complex relationship of religion and society in the America of the 20th century, including Walter Rauschenbusch, Jane Addams, Aimee Semple McPherson, Reinhold Niebuhr, Billy Graham, Dorothy Day, Martin Luther King, Jr. and William Sloan Coffin.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2522.

**[Religion 1567. Religion and the Public Intellectual]**

Catalog Number: 2548

*Ronald Thiemann (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An inquiry into the role of the public intellectual in contemporary culture. The course will review the critical literature on the public intellectual focusing on the question of religion. Special attention will be given to the social and cultural conditions that enable religiously based social criticism and to the various genres (poetry, the essay, the novel) through which that criticism is communicated. Readings in Akhmatova, Bender, Camus, Hughes, Jacoby, Nussbaum, Orwell, West, and others.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2528.



**[Religion 1580. Introduction to African American Religious History]**

Catalog Number: 7140

*Wallace D. Best (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course will trace the origins and development of African American religion(s) in the US. We will explore the critical relationship between African American religion(s) and African American cultural forms (music, literature, and the visual arts), paying particular attention to the importance of socio-economic class and region. The connection between black churches and black political thought, black women and religion, and "Afro-centric Christianity" are but a few of the themes we will address.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2334.

**[Religion 1581. Black Women and Religious Narrative]**

Catalog Number: 1731 Enrollment: Limited to 20.

*Wallace D. Best (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course will analyze the personal narratives of several African American women from the 19th and 20th centuries. We will examine the notion that religious metaphor and symbolism have figured prominently in black women's writing across literary genres. We will explore the various ways black women have used their narrative not only to reveal their religious faith, but also to understand and to critique American society.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2333.

**[Religion 1582. Langston's *Salvation*: Race, Religion, and the Harlem Renaissance]**

Catalog Number: 6071 Enrollment: Limited to 20.

*Wallace D. Best (Divinity School)*

*Half course (spring term). Hours to be arranged.*

The Harlem Renaissance of the 1920s is most often depicted as "the flowering of African American arts and literature." It can also be characterized as a period of emergence for diverse forms of African American religious expressions, ideologies, and institutions. This course will explore the literature and visual arts of the Harlem Renaissance to understand the pivotal intersection of race and religion during this time of black "cultural production."

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2335.

**[Religion 1583. Black Gospel Music: A History]**

Catalog Number: 9242

*Wallace D. Best (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Black Gospel has been called the "sacred sister to the blues." Like the blues, it is a musical genre deeply rooted in the African American experience. This course will trace the history of Black Gospel from its "modern" origins in 1930s Chicago, popularized by Thomas Dorsey and Mahalia Jackson, into the 1990s mainstream. Analyzing songs from each period of Black Gospel, we will explore the ways the music has tended to reflect and critique the current cultural climate.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2336.



### **Religion 1591. Pentecostalism as a Global Religion**

Catalog Number: 3989

*Wallace D. Best (Divinity School) and Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

This course looks into the religious and cultural sources of Pentecostalism from its birth in Los Angeles in 1906, focusing on such distinctive features as healing, expressive bodily worship, “speaking in tongues,” and its special appeal to people on the margins of society. We will then discuss its partial mutation into “neo-Pentecostalism,” its political and familial implications and the recent emergence of a Pentecostal theology of religions and a social theology.

*Note:* Offered jointly with the Divinity School as 2499.

### ***Cross-listed Courses***

**[African and African American Studies 184. Women and Religious Expression in 20th-Century African-American History]**

**[African and African American Studies 193. Religion and Social Change in Black America]**

### ***Primarily for Graduates***

#### **[Religion 2501. The Religious History of American Women: Seminar]**

Catalog Number: 6508 Enrollment: Limited to 16.

*Ann D. Braude (Divinity School)*

*Half course (fall term). Hours to be arranged.*

Focuses on the relationship between concepts of piety and concepts of femininity in American culture. Assesses both the role of gender in shaping religious history and the impact of religion on gender norms. Explores established groups, as well as theological and institutional innovators such as in Shakerism and Christian Science.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2325.

*Prerequisite:* Some previous work in American religious history.

#### **[Religion 2540. Circumscribing a Discipline: Theology and the Philosophy of Religion: Seminar]**

Catalog Number: 4141 Enrollment: Limited to 12.

*David Lamberth (Divinity School)*

*Half course (spring term). Hours to be arranged.*

1) What are the conditions under which the philosophy of religion emerged as its own field? And  
2) to what extent is it justifiable and valuable to consider the philosophy of religion as separate from theology?

*Note:* Expected to be given in 2006–07. Offered by the Divinity School as 2672.

*Prerequisite:* Advanced work in the theology or philosophy of religion.

#### **[Religion 2545. Religion and Social Theory: Seminar]**

Catalog Number: 2728

*David Little (Divinity School)*

*Half course (spring term). Hours to be arranged.*

Our focus is the writings of Max Weber together with the reactions of his critics and defenders.



Relevance to topics such as “secularization,” “religious nationalism,” and “cultural relativism.”

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 2813.

### **Religion 2550. Women and Religion in Contemporary America: Seminar**

Catalog Number: 8927

*Ann D. Braude (Divinity School)*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

An historical examination of the engagement of religion with the changing roles of women religion in post-World War II US, with attention to feminism, anti-feminism and secularization.

*Note:* Offered jointly with the Divinity School as 2328.

### ***Graduate Courses of Reading and Research***

#### **\*Religion 3505 (formerly \*Religion 3505hf). Colloquium in American Religious History**

Catalog Number: 6445 Enrollment: Limited to 20.

*Ann D. Braude (Divinity School) 2792*

*Half course (fall term; repeated spring term). Alternate Tu., 7:30–9:30 pm.*

Presentation and discussion of the research of doctoral candidates in American religious history.

*Note:* Open, with instructor’s permission, to doctoral students in other fields of religious studies or American studies. Offered jointly with the Divinity School as 2390.

### ***Hinduism***

#### ***For Undergraduates and Graduates***

### **Religion 1600. Introduction to Hindu Thought and Practice**

Catalog Number: 9700

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*Half course (spring term). M., W., at 10 and a weekly section to be arranged. EXAM GROUP: 3*

Surveys some of the significant texts and practices of Hindu communities in their various historical contexts. Topics include basic concepts, philosophical writings, Vedic sacrifice and procedures for daily worship, ascetic and devotional movements, literary works including the Ramayana, and the role of modernity in the construction of Hinduism as a religion.

*Note:* Offered jointly with the Divinity School as 3411.

#### **[Religion 1627. Hindu Ethics: Seminar]**

Catalog Number: 9638 Enrollment: Limited to 15.

*Anne Elizabeth Monius (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An intensive exploration of the place of ethics and moral reasoning in Hindu thought and practice. Materials to be examined will be drawn from a wide range of sources, from classical Sanskrit dharmashastra to epic narrative, devotional poetry, and modern ethnography, but emphasis will be placed throughout upon the particularity of different Hindu visions of the ideal human life.

*Note:* Expected to be given in 2008–09. Offered jointly with the Divinity School as 3923.



**Religion 1628. Ramayana in Literature, Theology, and Political Imagination**

Catalog Number: 3427 Enrollment: Limited to 15.

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*Half course (spring term). Tu., Th., at 10 and a weekly section to be arranged. EXAM GROUP: 12*

Examines specific scenes in the Ramayana as represented in classical Sanskrit poetry, vernacular retellings, and late-medieval theological commentaries, as well as the use of the epic in contemporary Hindu nationalist political discourse.

*Note:* Offered jointly with the Divinity School as 3412.

**Religion 1631. Hindu Traditions of Devotion**

Catalog Number: 9423

*Anne Elizabeth Monius (Divinity School)*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

An examination of Hindu *bhakti* (devotional traditions), focusing on three specific geographic/cultural regions within the Indian subcontinent. Keeping in mind both continuities and differences in the *bhakti* traditions of these three distinct cultural areas, we explore a variety of devotional literatures in English translation and considers the enduring significance and use of that deeply emotional poetry in the lives of Hindus today.

*Note:* Offered jointly with the Divinity School as 3406.

**Religion 1635. Reading Pre-Modern Hindu Narrative Literature: Seminar**

Catalog Number: 0073

*Anne Elizabeth Monius (Divinity School)*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Focusing on the genres of *itihasa*, *purana*, and *katha*, this seminar explores the relevance of both classical Indic and contemporary Euro-American literary theories for the understanding of pre-modern South Asian narrative.

*Note:* Offered jointly with the Divinity School as 3926.

*Prerequisite:* Although all primary source readings will be in English translation, previous study of South Asian religions is required.

**Religion 1650. Modern Hindu Movements: Seminar**

Catalog Number: 5120 Enrollment: Limited to 15.

*Diana L. Eck*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Readings in 19th and 20th century Hindu movements, investigating the many kinds of teachers, writings, and movements that have come to comprise modern “Hinduism.” Consideration of such thinkers, teachers, and activists as Dayananda, Vivekananda, Gandhi, Sarvarkar, and Radhakrishnan and such groups as the Arya Samaj, Gandhian movements, Swadhyaya, the R.S.S., the Vishva Hindu Parishad. A consideration of post-colonial perspectives on the emergence of modern Hinduism.

*Note:* Offered jointly with the Divinity School as 3877.

***Cross-listed Courses***





**Foreign Cultures 12. Sources of Indian Civilization**

**[Indian Studies 119. South Asian Literature and Its Theorists]**

**Indian Studies 206. Old Indian and Eurasian Creation Myths: Seminar**

**[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage]**

***Graduate Courses of Reading and Research***

**[\*Religion 3601. Readings in Hindu Myth, Image, and Pilgrimage: Seminar]**

Catalog Number: 3998

*Diana L. Eck 4514*

*Half course (spring term). Hours to be arranged.*

Intensive reading and research on specific topics in Hindu mythology, image and iconography, temples and temple towns, sacred geography and pilgrimage patterns.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3869.

***Buddhism***

***For Undergraduates and Graduates***

**[Religion 1700. Introduction to Buddhism, in Theory and Practice]**

Catalog Number: 3486

*Janet Gyatso (Divinity School)*

*Half course (spring term). Hours to be arranged.*

A study of the main ideas, practices, and classic texts of Buddhist tradition. The class will consider some of the principal religious, social, and philosophical questions in Buddhist history, as well as the hermeneutics of its modern academic study. It will survey early Buddhism and developments in Theravada, Mahayana, and Tantric Buddhism across Asia. These developments exemplify distinctive Buddhist modes of personal cultivation, community life, and literary practice.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3558.

**Religion 1705. Buddhism in Tibet**

Catalog Number: 7192

*Janet Gyatso (Divinity School)*

*Half course (spring term). Tu., Th., 11:30–1;. EXAM GROUP: 13, 14*

Distinctive traditions of Tibetan Buddhism in their historical contexts. Topics include: practices and theories on the ethics of compassion, visionary meditations; tantric yoga and physiologies; medical traditions; death and reincarnation practices; magic and state rituals; the creation of sacred landscape; religious authority and discipline; and cultures of writing, learning and painting. Throughout the course we will consider the relation of these religious practices to the historical development of Tibetan cultures, Buddhist institutions, and state formations.

*Note:* Offered jointly with the Divinity School as 3563.

**[Religion 1706. South Asian Buddhism: Dharmas, Emptiness, and Idealism ]**

Catalog Number: 9464

*Parimal G. Patil*





*Half course (fall term). Hours to be arranged.*

A very close and contextual reading (in translation) of Buddhist “doctrinal” and “philosophical” texts. We will select chapters from Vasubandhu’s *Treasury of Metaphysics*, Nagarjuna’s *Basis of the Middle Way*, and Vasubandhu’s *Twenty Verses*. Attempt to understand these texts on their own terms and in their South Asian contexts, while also inquiring into their significance for the study of Buddhism and religion in South Asia.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3536.

### **Religion 1708. Issues in Buddhist Philosophy: Conference Course**

Catalog Number: 8754 Enrollment: Limited to 25.

*Janet Gyatso (Divinity School)*

*Half course (fall term). W., 3–5:30; M., at 4; Tu., at 4. EXAM GROUP: 8, 9*

What is reality? How do we know? How do we exist? Readings in translation of Madhyamika, Yogacara, and theories of mind, language, and perception, along with comparable work in European continental philosophy. We also read two later Asian appropriations of Indian Buddhist philosophy: a Tibetan theory of memory; and a modern Japanese philosophy of the body, which draws together Buddhist meditation theory and western phenomenology.

*Note:* Offered jointly with the Divinity School as 3562.

*Prerequisite:* Some knowledge of Buddhist traditions is preferable.

### **[Religion 1710. Buddhist Ethics: Seminar]**

Catalog Number: 8878

*Janet Gyatso (Divinity School)*

*Half course (spring term). Hours to be arranged.*

An exploration of selected classic doctrinal texts and contemporary Buddhist literary and autobiographical writings. In each instance the task will be to discern the bases of key ethical principles, with particular attention to the definition of the self, the grounds for human relationships, and the question of why one cares for another. Some works of western philosophical ethics will also be read in order to consider the relevance of the Buddhist material for contemporary ethical issues.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3568.

### **[Religion 1725. Buddhism and Social Change: Seminar]**

Catalog Number: 4517 Enrollment: Limited to 15.

*Christopher S. Queen*

*Half course (fall term). Hours to be arranged.*

This survey of Buddhist social teachings examines the evolution of central concepts (impermanence, selflessness, suffering), ethical styles (discipline, virtue, altruism, engagement), and themes (peace, justice, gender, ecology) in Asia and the West. We consider representative figures and movements in the rise of socially engaged Buddhism since the 19th century.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3853.

*Prerequisite:* Previous study of Buddhism.

### **Religion 1726. Buddhism in America: Seminar**

Catalog Number: 4292 Enrollment: Limited to 15.

*Christopher S. Queen*



*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

The transmission of Buddhist teachings and institutions to the West. A survey of Buddhist thinkers and movements since the 19th century, with primary attention to America: immigrant Buddhist communities, Transcendentalists and Theosophists, Pragmatist and Process philosophers, the “beat” generation, and recent Zen, Tibetan, and Theravada developments. Topics for discussion and research include tradition and transformation, socially engaged Buddhism and environmentalism, feminism, peace activism, and the dialogue with other faiths. *Note:* Separate requirements for undergraduate and graduate students. Offered jointly with the Divinity School as 3851.

*Prerequisite:* Knowledge of Asian Buddhism.

**[Religion 1730. Buddhist Women and Representations of the Female: Conference Course]**

Catalog Number: 4463

*Janet Gyatso (Divinity School)*

*Half course (fall term). Hours to be arranged.*

We explore three interrelated subjects: 1) Buddhist conceptions concerning the female gender; 2) the lifestyles and self-conceptions of historical Buddhist women, focusing upon autobiographical writings by Buddhist women, and accounts of modern nuns involved in reform movements and political struggles in Asia; 3) Buddhist philosophy of language and its relation to Buddhist representations of the female. The latter is studied in conjunction with the writings of Western feminist thinkers on language and semiotics.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3559.

**[Religion 1750. Philosophy of Religion: Religious Epistemology ]**

Catalog Number: 9826

*Parimal G. Patil*

*Half course (spring term). Hours to be arranged.*

Philosophers belonging to nearly every religious tradition have offered arguments in support of their traditions’ most basic doctrines. We consider, in detail, some of the epistemological frameworks within which these arguments have been (and continue to be) offered. Specifically, we discuss: (1) Reformed Epistemology; (2) Virtue Epistemology; (3) The Epistemology of Religious Experience; (4) Proper Function; and (5) Buddhist, Hindu, and Jaina Epistemologies.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3535.

***Primarily for Graduates***

**Religion 2710r. Buddhist Studies: New Work in the Field: Seminar**

Catalog Number: 1608

*Janet Gyatso (Divinity School)*

*Half course (spring term). W., at 3. EXAM GROUP: 8*

Topic for spring 2006: the state of the field of Buddhist Studies. We will study new work in Buddhist aesthetics, ethics, theology, philosophy, social and cultural theory, literary analysis, and historiography.

*Note:* This is an advanced seminar for multidisciplinary Buddhist Studies. It is offered every year, but the topic of focus changes. It may be taken for credit more than once. Offered jointly



with the Divinity School as 3888.

*Prerequisite:* Knowledge of at least one classical Asian language.

### ***Cross-Listed Courses***

**[East Asian Buddhist Studies 114. The Mahâyâna in East Asia: Bodhisattvas and Their Cults in Medieval and Early Modern East Asian Buddhism]**

**[East Asian Buddhist Studies 115. Buddhist Meditation Traditions]**

**[East Asian Buddhist Studies 116a. Buddhism in China: I-VII Century](#)**

**[East Asian Buddhist Studies 116b. Buddhism in China: VIII-XVI Century](#)**

**[East Asian Buddhist Studies 210r. Topics in East Asian Buddhism: Buddhism in Modern China](#)**

### ***Islam***

#### ***For Undergraduates and Graduates***

**[Religion 1801 (formerly Religion 1551). For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]**

Catalog Number: 0110

*Ali S. Asani*

*Half course (fall term). Hours to be arranged.*

Designed as an introduction to Islam, the course explores literature and the arts (poetry, calligraphy, dance, music, drama, and architecture) as expressions of Muslim devotion, as well as their role in worship and liturgy. An important aim is to understand and explore the connecting points between religion, literature, and the arts in Muslim societies. Course material drawn from several regions beyond the Middle East, particularly sub-Saharan Africa and South and Southeast Asia.

*Note:* Expected to be given in 2007–08. Offered jointly with the Divinity School as 3627.

**[Religion 1802 (formerly Religion 1555). Introduction to Islamic Mysticism: The Sufi Tradition]**

Catalog Number: 3830

*Ali S. Asani*

*Half course (spring term). Hours to be arranged.*

Introductory survey of Sufism, focusing on its fundamental concepts, ritual practices, institutions, and its impact on literary and sociopolitical life in different regions of the Islamic world.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3620.

*Prerequisite:* An introductory course in Islam or equivalent helpful but not essential.

**[Religion 1810. Representations of the Prophet Muhammad through History: Seminar](#)**

Catalog Number: 0074

*M. Shahab Ahmed*

*Half course (spring term). W., 2–4:30. EXAM GROUP: 7, 8, 9*

An introduction to the different ways in which Muhammad and his prophethood have been



remembered, constructed, understood, and represented in Islamic and non-Islamic discourses from the earliest period of Islam to the present day, including: Muhammad in the Quran and exegesis, in Hadith, in epic biography, in theology, in philosophy, in Sufism, in devotional and popular literatures, in medieval and early modern Europe, in modern Orientalism, in modern Muslim discourses, in theatre, film, fiction, and in art.

*Note:* Not open to auditors. Offered jointly with the Divinity School as 3972.

*Prerequisite:* At least one previous course on Islam.

### **Religion 1815. Mosques in Muslim History**

Catalog Number: 3325

*Baber Johansen (Divinity School)*

*Half course (fall term). Hours to be arranged.*

The course will provide an introduction into the Koranic foundation of basic aspects of the Muslim culture. It will treat the multi-dimensional functions that different types of mosques have performed for urban and rural communities over the centuries. It will discuss the changes in these functions in different regions and historical periods and will, in the last two sessions, be dedicated to the situation of mosques in the European and American diaspora.

*Note:* Offered jointly with the Divinity school as 3610.

### **[\*Religion 1820 (formerly \*Religion 1585). Islam in South Asia: Religion, Culture, and Identity in South Asian Muslim Societies]**

Catalog Number: 2741 Enrollment: Limited to 20.

*Ali S. Asani*

*Half course (spring term). Hours to be arranged.*

A survey of Islamic civilization in the Indian subcontinent focusing on an exploration of Islamic identity. Issues and themes salient to Islamic identity considered within religious and political contexts, as well as the broader context of South Asian culture as expressed in language, literature, and the arts. Also examines the uses of the term “Islamic” in various pre-modern and modern discourses in South Asia.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3625.

*Prerequisite:* Introductory course in Islam or equivalent.

### **[Religion 1825 (formerly Religion 1590). Issues in Feminism and Islam: A Historical Overview]**

Catalog Number: 9891

*Leila Ahmed (Divinity School)*

*Half course (fall term). Hours to be arranged.*

We explore some of the major issues and debates in relation to feminism and women in Islam in historical overview from a post-colonial perspective. Thus, as we explore these issues and debates, we will also be examining the methods, tools and assumptions forming the grounds of our studies, including in particular issues of Orientalism, colonialism and feminism in the construction of the religions/cultures of Others. Subsequent topics include an examination of some contemporary feminist readings of early Islam and exploration of women in Sufism and lived religion.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3604.



**[Religion 1827. Themes in Islam in America]**

Catalog Number: 0618

*Leila Ahmed (Divinity School)*

*Half course (fall term). Hours to be arranged.*

This course will explore themes in contemporary American Islams, in particular, issues of gender, and of Progressive Islam. It will include guest speakers.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3606.

**Religion 1828. Muslims in Multicultural America**

Catalog Number: 5326

*Jocelyne Cesari (Divinity School)*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

This course describes the ethnic and religious variety of Islamic communities in America, immigrant and indigenous. It provides analyses of the ways in which both migrants and African American Muslims are maintaining or reactivating religious practices and identifications in a secular and pluralistic society. The differences between religion, ethnicity, and culture will be discussed. The political consequences of September 11, 2001 on American Muslims will also be addressed.

*Note:* Offered jointly with the Divinity School as 3870.

**[Religion 1840. Writing Lives: Readings in Contemporary Muslim and Arab Autobiography: Seminar]**

Catalog Number: 5833

*Leila Ahmed (Divinity School)*

*Half course (fall term). Hours to be arranged.*

An exploratory seminar in contemporary autobiographical writings by Arabs and Muslims, reflecting on themes of religiousness and secularism, among others. We will read the following texts: Edward Said's *Out of Place*, Sara Suleri's *Meatless Days*, and Fatima Mernissi's *Dreams of Trespass*.

*Note:* Expected to be given in 2006–07. Offered jointly with the Divinity School as 3913.

**Religion 1850. The Protocol of the Gaze: Seminar**

Catalog Number: 3353

*Baber Johansen (Divinity School)*

*Half course (fall term). Tu., at 11, W., 3–5. EXAM GROUP: 8, 9, 13*

The seminar will examine the links between the rules of the gaze on the one hand, gender and social hierarchy on the other. It will investigate the construction of public and private spheres and its influence on the way of looking at others. It will follow these debates from the ninth to the twelfth century. The first of two seminars that will trace the development of the protocol of the gaze until the present.

*Note:* Offered jointly with the Divinity School as 3932.

***Primarily for Graduates***

**Religion 2840. Ibn Taymiyyah and His Times: Seminar**

Catalog Number: 0075 Enrollment: Limited to 12.



*M. Shahab Ahmed*

*Half course (fall term). F., 2–5. EXAM GROUP: 7, 8, 9*

An engagement with the pre-modern Islamic intellectual tradition, and its relationship to modern Islam, through the life, thought, and legacy of Ibn Taymiyyah (1263–1328 CE), who is said to have “dominated the history of Islam in the twentieth century.”

*Note:* Not open to auditors. Offered jointly with the Divinity School as 3973.

*Prerequisite:* Advanced proficiency in Arabic.

### ***Cross-listed Courses***

[Arabic 230a. Hadith I: Seminar](#)

[Arabic 230b. Hadith II: Seminar](#)

[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]

[\*Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam]

[Near Eastern Civilizations 200a \(formerly Islamic Civilizations 200a\). Approaches to Middle Eastern Studies: Proseminar](#)

### ***Chinese and Japanese Religions***

### ***Cross-listed Courses***

[Chinese History 251. Confucian Ethics: Conference Course](#)

[East Asian Studies 140. Major Religious Texts of East Asia](#)

[Historical Study A-13. China: Traditions and Transformations](#)

[Historical Study A-14. Japan: Tradition and Transformation](#)

[History of Art and Architecture 282y. The Visual Culture of Relics in East Asia]

[Japanese History 115. Religion and Society in Edo and Meiji Japan](#)

[Japanese History 120. Religion and Society in Twentieth-Century Japan](#)

[Japanese History 125. Japanese Religious Traditions](#)

[Japanese History 126. Shinto: Conference Course](#)

### ***Graduate Courses of Reading and Research***

#### **\*Religion 3000. Direction of Doctoral Dissertations**

Catalog Number: 1933

*Ali S. Asani 7739 (on leave 2005-06), Wallace D. Best (Divinity School) 5092, François Bovon (Divinity School) 3551, Sarah Coakley (Divinity School) 1873, Harvey G. Cox, Jr. (Divinity School) 3479, Arthur J. Dyck (Public Health, Divinity School) 1670, Diana L. Eck 4514, Francis Fiorenza (Divinity School) 2735 (on leave 2005-06), Marla F. Frederick 4728 (on leave 2005-06), Robert M. Gimello (University of Arizona) 9240, William A. Graham, Jr. 4156, Janet Gyatso (Divinity School) 4243, David D. Hall (Divinity School) 2510, Jay M. Harris 2266 (on leave fall term), Christine M. Helmer (Divinity School) 4836, Albert Henrichs 4085 (on leave fall term), William R. Hutchison (Divinity School) 4061, Helmut H. Koester (Divinity School) 3477, David Lamberth (Divinity School) 3714, Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, Everett I. Mendelsohn 2700 (on leave 2005-06), David G. Mitten 1290, Anne*





*Elizabeth Monius (Divinity School) 4489, Roy Mottahedeh 1454, Laura S. Nasrallah (Divinity School) 4834, Robert A. Orsi (Divinity School) 4242, Parimal G. Patil 4478 (on leave 2005-06), Elisabeth Schüssler Fiorenza (Divinity School) 3193, P. Oktor Skjaervo 2869, Ronald Thiemann (Divinity School) 3395, Wei-Ming Tu 7233, and Leonard W. J. van der Kuijp 1556*

*Note: May also be taken with other instructors, when authorized by the Chair.*

### **\*Religion 3001. Reading and Research**

Catalog Number: 7954

*Ryuichi Abe 4974, Ali S. Asani 7739 (on leave 2005-06), Wallace D. Best (Divinity School) 5092, François Bovon (Divinity School) 3551, David L. Carrasco (FAS, Divinity School) 4213 (on leave fall term), Harvey G. Cox, Jr. (Divinity School) 3479, Arthur J. Dyck (Public Health, Divinity School) 1670, Diana L. Eck 4514, Francis Fiorenza (Divinity School) 2735 (on leave 2005-06), Marla F. Frederick 4728 (on leave 2005-06), Robert M. Gimello (University of Arizona) 9240, William A. Graham, Jr. 4156, Janet Gyatso (Divinity School) 4243, David D. Hall (Divinity School) 2510, Jay M. Harris 2266 (on leave fall term), Christine M. Helmer (Divinity School) 4836, William R. Hutchison (Divinity School) 4061, Beverly M. Kienzle (Divinity School) 2452 (on leave 2005-06), Karen L. King (Divinity School) 4217, Helmut H. Koester (Divinity School) 3477, David Lamberth (Divinity School) 3714, Jon D. Levenson (Divinity School) 2264, David Little (Divinity School) 2793, Peter Machinist 2812, Kevin J. Madigan (Divinity School) 4287, Everett I. Mendelsohn 2700 (on leave 2005-06), David G. Mitten 1290, Anne Elizabeth Monius (Divinity School) 4489, Roy Mottahedeh 1454, Laura S. Nasrallah (Divinity School) 4834, Robert A. Orsi (Divinity School) 4242, Parimal G. Patil 4478 (on leave 2005-06), Kimberley C. Patton (Divinity School) 3306 (on leave 2005-06), Elisabeth Schüssler Fiorenza (Divinity School) 3193, Ronald Thiemann (Divinity School) 3395, Wei-Ming Tu 7233, and Leonard W. J. van der Kuijp 1556*

*Note: May also be taken with other instructors, when authorized by the Chair.*

### **\*Religion 3002. Foreign Language Certification**

Catalog Number: 4791

*Members of the Committee*

Reading and research conducted in a specific foreign language, normally French or German, to satisfy the modern language reading proficiency requirement for PhD students in the Study of Religion.

*Note: Limited to PhD candidates who receive written permission from the Committee's Director of PhD Studies.*

## Romance Languages and Literatures

**AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**





***Faculty of the Department of Romance Languages and Literatures***

Christie McDonald, Smith Professor of French Language and Literature (*Chair*)  
 José Ignacio Alvarez-Fernández, Preceptor in Romance Languages and Literatures  
 Janet Beizer, Professor of Romance Languages and Literatures (*on leave spring term*)  
 Carole Bergin, Preceptor in Romance Languages and Literatures  
 Marie-France Bunting, Senior Preceptor in Romance Languages and Literatures (*Undergraduate Adviser in French*)  
 Kimberlee Campbell, Professor of the Practice of Romance Languages and Literatures (*Director of Language Programs in Romance Languages and Literatures*)  
 Luis E. Cárcamo-Huechante, Assistant Professor of Romance Languages and Literatures, Associate of Kirkland House (*on leave 2005-06*)  
 Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature (*Director of Graduate Studies in Portuguese*)  
 Tom Conley, Abbott Lawrence Lowell Professor of Romance Languages and Literatures (*Director of Graduate Studies in French*)  
 Verena A. Conley, Visiting Professor of Literature and of Romance Languages and Literatures  
 Elvira G. DiFabio, Senior Preceptor in Romance Languages and Literatures (*Associate Director of Undergraduate Studies and Undergraduate Adviser in Italian*)  
 Alexia E. Duc, Assistant Professor of Romance Languages and Literatures  
 Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality (*on leave 2005-06*)  
 Francesco Erspamer, Professor of Romance Languages and Literatures  
 Luis Fernández-Cifuentes, Robert S. and Ilse Friend Professor of Romance Languages and Literatures (*on leave spring term*)  
 Franco Fido, Carl A. Pescosolido Professor of Romance Languages and Literatures (*fall term*) and Carl A. Pescosolido Professor of Romance Languages and Literatures, Emeritus (*spring term*) (*on leave fall term*)  
 Chiara Frenquellucci, Preceptor in Romance Languages and Literatures  
 Judith Frommer, Professor of the Practice of Romance Languages (*on leave 2005-06*)  
 Mary M. Gaylord, Sosland Family Professor of Romance Languages and Literatures  
 Luis M. Girón Negrón, John L. Loeb Associate Professor of the Humanities (*Undergraduate Adviser in Latin American Studies*)  
 Virginie Greene, Professor of Romance Languages and Literatures, Associate of Kirkland House (*Undergraduate Adviser in Romance Studies and Director of Undergraduate Studies*)  
 Ernesto E. Guerra, Preceptor in Romance Languages and Literatures  
 Adriana Gutiérrez, Preceptor in Romance Languages and Literatures  
 Nina C. de W. Ingraio, Senior Preceptor in Romance Languages and Literatures  
 Francis Abiola Irele, Visiting Professor of African and African American Studies and of Romance Languages and Literatures  
 Alice Jardine, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality  
 Clémence Jouët-Pastré, Senior Preceptor in Romance Languages and Literatures (*Undergraduate Adviser in Portuguese*)  
 Lawrence D. Kritzman, Visiting Professor of Romance Languages and Literatures (*Dartmouth College*) (*fall term only*)



Johanna Damgaard Liander, Senior Preceptor in Romance Languages and Literatures  
(*Undergraduate Adviser in Spanish*)  
D. Bradford Marshall, Preceptor in Romance Languages and Literatures  
Julio Marzán, Visiting Associate Professor of Romance Languages and Literatures (*Nassau Community College*) (*spring term only*)  
José Antonio Mazzotti, Gardner Cowles Associate Professor of Romance Languages and Literatures  
Giuliana Minghelli, Lecturer on Romance Languages and Literatures  
Marlies Mueller, Senior Preceptor in Romance Languages and Literatures  
Lino Pertile, Harvard College Professor and Carl A. Pescosolido Professor of Romance Languages and Literatures (*Director of Graduate Studies in Italian*)  
Sandy Petrey, Visiting Professor of Romance Languages and Literatures (*SUNY Stony Brook*) (*spring term only*)  
Mylène Priam, Assistant Professor of Romance Languages and Literatures  
Ileana Rodríguez, Visiting Professor of Romance Languages and Literatures (*Ohio State University*) (*fall term only*)  
Mario Santana, Visiting Associate Professor of Romance Languages and Literatures (*University of Chicago*) (*spring term only*)  
Nicolau Sevcenko, Visiting Professor of Romance Languages and Literatures (*Universidade de São Paulo*) (*spring term only*)  
Doris Sommer, Ira Jewell Williams, Jr., Professor of Romance Languages and Literatures (*Director of Graduate Studies in Spanish*)  
Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and Professor of Comparative Literature  
Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature  
Silvio Torres-Saillant, Visiting Associate Professor of Romance Languages and Literatures (*Syracuse University*)

***Other Faculty Offering Instruction in the Department of Romance Languages and Literatures***

Francisco Márquez Villanueva, Arthur Kingsley Porter Research Professor of Romance Languages and Literatures  
Avi Matalon, Assistant Professor of Near Eastern Languages and Civilizations

Romance Languages and Literatures offers courses in Catalan, French, Italian, Portuguese, and Spanish, as well as in Latin American Studies, and Romance Studies. Courses appear below under these headings. Letters A-D and numbers 20-99 indicate courses designed primarily for undergraduates. Courses numbered 100-199 are open to both undergraduates and graduate students. 200-level course are intended primarily for graduate students and, exceptionally, to advanced undergraduates.

Course groupings reflect both progression in level of language study and diversity of thematic focus. GROUP I: Courses focused on language acquisition. Courses A-D offer beginning and early intermediate instruction in language. Courses 20-59 give special attention to the development of language skills in a variety of literary and cultural contexts. GROUP II: Courses



designed to introduce students to systematic study of literature and culture. Courses 60-69 combine language study and engagement with living language communities in the Boston Area. Courses 70-79 introduce major works and currents of literary history as preparation for 100-level literature courses. Courses 80-99 include specialized undergraduate seminars, tutorials, and independent study. N.B. Courses numbered 40-97 require approximately the same level of language proficiency. GROUP III: Advanced courses in literature and culture. Numbers 100-199 reflect period, regional, and thematic groupings. All courses in this group assume the same degree of language proficiency. GROUP IV: 200-299 Graduate courses, chiefly seminars.

Additionally, department faculty offer courses (some of which are cross-listed below) in the Department of Comparative Literature, in the Core, Freshman Seminar, Literature and the Women, Gender, and Sexuality Studies Program. For further offerings in general and comparative Romance literature, see listings of the Departments of Comparative Literature.

Students interested in earning a foreign language citation in a Romance language should read carefully the sections on French, Italian, Portuguese, and Spanish in the description of "Citations in Foreign Language" in the Academic Performance section of the FAS Student Handbook. In general, language courses Ca and above can count toward a citation if they are taken in sequence and if they meet the criteria set forth in the Student Handbook. Literature courses taught in the target language usually offer citation credit, but students should consult course descriptions in the online catalog for exact information.

No language courses may be taken pass/fail. Graduate students in the Faculty of Arts and Sciences may take language courses (numbered A-54) for a grade of Sat/Unsat, with permission of the course head. All Romance language courses, 100-level and above, may be taken Pass/Fail without course head's signature unless otherwise noted. Undergraduates are free to enroll in 200-level graduate courses without course head's signature unless otherwise noted. No auditors are allowed in lettered language courses or in courses numbered 20 to 59. No one may enter A level courses after the eighth meeting of the class, Bab or Dab classes after the first meeting, or C or 20 level courses after the sixth meeting.

## **Catalan**

### ***Primarily for Undergraduates***

#### **Catalan Ax. Reading Catalan: Culture, History and Literature**

Catalog Number: 5084

*Kimberlee Campbell and staff*

*Half course (fall term). Tu., Th., 2-3:30. EXAM GROUP: 16, 17*

Intensive introduction to reading in Catalan for undergraduates and graduates. Aims at the rapid development of reading skills with texts that provide an introduction to Catalan history and culture. Since its foundation, the Catalan countries (Catalonia, Valencia, Balears) have played a major role in the process of constructing a more pluralized and decentralized Spain. Catalonia is also a leading voice in the debate on a Europe of nations versus a Europe of states.

*Note:* May be taken Pass/Fail by undergraduates or Sat/Unsat by GSAS students.

*Prerequisite:* Some previous knowledge of a Romance language recommended.



### **Catalan Ba. Introduction to Catalan**

Catalog Number: 2153

*Kimberlee Campbell and staff*

*Half course (spring term). Tu., Th., 2–4. EXAM GROUP: 16, 17*

An introductory course in spoken and written Catalan, the language of approximately ten million people in Spain, France, Italy, and Andorra, and the most widely used of minoritized languages in Europe today. Antonio Gaudí, Salvador Dalí, Joan Miró, Antoni Tàpies, Mercè Rodoreda, and Pau Casals were native Catalan speakers. Emphasizing oral communication, reading, and writing, Catalan Ba will offer students contact with contemporary Catalan culture, particularly that of Barcelona, through the press and Internet.

*Note:* Conducted in Catalan. Knowledge of another Romance language is useful but not essential. May be taken Pass/Fail by undergraduates or Sat/Unsat by GSAS students.

### **\*Catalan 91r. Supervised Reading and Research**

Catalog Number: 2578

*Bradley S. Epps and staff*

*Half course (fall term; repeated spring term). Tu., Th., 4–5:30.*

Tutorial supervision of research on subjects not treated in regular courses. May be used for further language study after Catalan Ax or Ba.

## ***French***

All students with some previous French in secondary school are required to take the placement test if they have not taken the SAT II, AP, or IB examinations in French. The term “placement score” or “placement test” hereafter refers to the French placement test given during Freshman Week for freshmen, and usually on the day preceding Registration Day for returning students.

Students who receive a grade of 5 in the College Board Advanced Placement Examinations in French Literature or Language are admitted directly into French courses numbered in the 40s and 50s, or 70a and 70b, with permission of course head, and also into 100-level courses of French literature. For details of Advanced Placement see the pamphlet *Advanced Standing at Harvard College* or contact the Director of the Program of Advanced Standing.

### ***Primarily for Undergraduates***

### **French A. Beginning French**

Catalog Number: 3373

*Marlies Mueller and staff*

*Full course (indivisible). Five meetings a week. Sections M. through F., at 9, 10, 11, 12, and 1. EXAM GROUP: 10*

Complete basic course offering equal emphasis on speaking, listening, reading and writing as well as conveying a taste for the French *savoir-vivre*. Latest technology allows for surround-sound training by native speakers in dorm rooms. By year’s end, students will be able to carry on conversations in simple, correct French, and will have been introduced to French culture by such landmark authors as Victor Hugo and Sartre and state-of-the-art movies like *Amélie*.



*Note:* French A fulfills the language requirement. Open to students with placement scores up to 499 or permission of course head. May not be taken Pass/Fail. Graduate students at GSAS may take the course Sat/Unsat with permission of course head. Section on-line on the French A website.

### **French Ax. Reading Modern French**

Catalog Number: 2763

*D. Bradford Marshall and staff*

*Half course (fall term; repeated spring term). Fall: Section I: Tu., Th., 10–11:30; Section II: Tu., Th., 11:30–1.; Spring: Tu., Th., 10–11:30. EXAM GROUP: 12, 13, 14*

An introduction to reading and translating modern French texts for students who require only a basic knowledge of French for research purposes. French Ax presents the principle structures of French grammar in a systematic and coherent manner and, at the same time, makes reading and translation assignments as discipline-specific as possible for each student's needs.

*Note:* Conducted in English. Not open to students with a score of 500 or above on the Harvard Placement Test or the SAT II French test, to those with more than one year of undergraduate French, or to auditors. May not be used to fulfill the language requirement and may not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the French Ax website.

*Prerequisite:* Some previous study of a Romance language helpful but not necessary. Fluency in English required.

### **\*French Bab. Intensive Beginning French: Special Course**

Catalog Number: 8780 Enrollment: Limited to 15 students per section.

*Marlies Mueller and staff*

*Full course (spring term). Section I: M. through F., at 10 and Tu., Th., at 11. Section II: M., W., F., at 12 and Tu., Th., 1-3. EXAM GROUP: 3, 12*

A complete first-year course for non-requirement students. Provides a solid foundation in French for those with absolutely no prior knowledge of the language. Speaking, listening, reading, and writing are all emphasized, with class time devoted to oral expression. After French Bab, students should be able to engage in everyday conversation with native speakers, and read straightforward texts, both fiction and non-fiction, with relative ease.

*Note:* May not be used to fulfill the language requirement and may not be taken Pass/Fail or Sat/Unsat. Interested students should fill out the on-line request form on the French Bab website by the beginning of the fall term reading period.

*Prerequisite:* An advanced knowledge of at least one foreign language but no previous study of French.

### **French Ca. Intermediate French I**

Catalog Number: 1810

*Carole Bergin and staff*

*Half course (fall term). M. through Th., sections at 9, 10, 11, 12, or 1. EXAM GROUP: 10*

A beginning intermediate course emphasizing listening, speaking, reading, and writing, and including a study of grammar. Students become familiar with contemporary France through videotapes, feature length films, and multimedia and are introduced to French literature through a variety of texts.



*Note:* Conducted in French. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the French Ca website.

*Prerequisite:* 500-599 on the SAT II test or the Harvard Placement Test; 3 years of French in high school; French A; or permission of course head.

### **French Cb. Intermediate French II: La Francophonie**

Catalog Number: 6343

*Carole Bergin and staff*

*Half course (spring term). Three weekly meetings: Sections M., W., F., at 10, 11, 12, or 1. EXAM GROUP: 2*

In French Cb, students continue the study of grammar begun in French Ca. and further develop their communicative skills. Students are introduced to the concept of “*la francophonie*” as represented in literature and films from Quebec, the Caribbean, and Africa.

*Note:* Conducted in French. May not be audited or taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the French Cb website.

*Prerequisite:* 550-599 on the SAT II test or the Harvard Placement test; French Ca; or permission of course head.

### **French 25. Comprehensive Intermediate French III: L’Etre humain et son univers**

Catalog Number: 8781

*Marlies Mueller and staff*

*Half course (fall term; repeated spring term). Fall: Sections M., W., F., at 9, 10, 12, or 1.*

*Spring: Sections M., W., F., at 10 or 12. EXAM GROUP: Fall: 2, 3, 5, 6; Spring: 3, 5*

Introduction to French literature and cinema combined with a comprehensive review of French grammar and intensive vocabulary building. Authors and filmmakers, whose reflections on enduring questions of human experience and the meaning of life are compared and contrasted, include Baudelaire, Camus, Kieslowski, Pagnol, Rimbaud, and Sartre. By the end of the term, students should be able to understand lectures in French and express their thoughts orally and in writing with confidence using correct French.

*Note:* Conducted in French. A grade of A- in French A or French Bab, a B in French Ca with language requirement completed, a B in French Cb; or 600-659 on the SAT II test or the Harvard Placement test; or permission of course head. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the French 25 website.

### **French 27. Oral Expression I: Le Français parlé**

Catalog Number: 3060

*D. Bradford Marshall and staff*

*Half course (fall term; repeated spring term). Sections M. through F., at 9, 12, or 1. EXAM GROUP: 2, 11*

Emphasizing speech strategies, useful vocabulary, idiomatic expressions, and listening comprehension, this course helps students develop oral fluency while learning about contemporary France and Francophone countries. Films, music, news media, and Internet resources offer virtual linguistic and cultural immersion, and provide material for in-class discussions and special activities. After a term of French 27, students should feel comfortable speaking French and have confidence to handle any situation commonly encountered in a French-speaking environment.





*Note:* Conducted in French. May not be used to fulfill the language requirement. May not be audited or taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the French 27 website.

*Prerequisite:* A grade of A- or better in French A or Bab, or B in French Ca with language requirement completed; or B in French Cb; or 600-659 on the SAT II test or the Harvard Placement test; or permission of course head.

### **French 31. Oral Expression II: La France à travers les médias**

Catalog Number: 0490

*D. Bradford Marshall and staff*

*Half course (fall term; repeated spring term). Section I: Tu., Th., 10–11:30; Section II: Tu., Th., 11:30–1. EXAM GROUP: 12, 13*

Intended for those who have learned how to handle everyday situations in a French-speaking environment, French 31 prepares students for interacting on a more sophisticated level. Students will fine-tune their oral language skills through a more advanced study of pronunciation, grammar and discourse strategies, while discussing and debating topics of current interest as they are presented in the media, including the press, radio, television, cinema, and the Internet.

*Note:* Conducted in French. May not be audited or taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 30s. Section on-line on the French 31 website.

*Prerequisite:* French 25 or 27; 660-689 on the SAT II test or the Harvard Placement test; or permission of course head.

### **French 35. Upper-Level French I: “La quête de soi et le rapport avec autrui”**

Catalog Number: 1935

*Marlies Mueller and staff*

*Half course (fall term; repeated spring term). Sections: Fall M., W., F., at 9, 10, 11, or 1, Spring: M., W., F., at 10 or 11. EXAM GROUP: Fall: 2, 3; Spring: 3*

Course in French language, literature, and film designed to enhance facility in all four language skills. Considers representations of self in literature and cinema. How does one arrive at knowledge of self, and what are the consequences of this knowledge for relationships with others? This question will be examined through authors and filmmakers such as Baudelaire, Camus, Duras, Hugo, Leconte, Rouan, Truffaut, Vercors. Complete grammar review, vocabulary building, emphasizing idiomatic subtleties and social etiquette.

*Note:* Conducted in French. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 30s. Section on-line on the French 35 website.

*Prerequisite:* French 25; 660-689 on the SAT II test or the Harvard Placement test; or permission of course head.

### **French 36. Upper-Level French II: Liberté et Conscience**

Catalog Number: 6963

*Marlies Mueller and staff*

*Half course (spring term). Sections M., W., F., at 10, 11, or 1. EXAM GROUP: 3, 4*

Advanced course in French language and literature structured to develop near-native fluency in written and oral expression. Examines the nature and consequences of freedom. How do power,





knowledge, and freedom interrelate? Politics, philosophy, art, and literary imagination are considered in their relation to the creation and expansion of individual autonomy. Authors and film directors include Balzac, Beauvoir, Camus, Granier-Deferre, Maupassant, Nuytten, Ophuls, Renoir, Ribowska, and Yourcenar. Consolidating grammatical structures, vocabulary building, intensive stylistic exercises.

*Note:* Conducted in French. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 30s. Section on-line on the French 36 website.

*Prerequisite:* French 25, 27, 31 or 35; 690-719 on the SAT II test or the Harvard Placement test; or permission of course head.

### **French 37. Les régions de France: hier et aujourd'hui**

Catalog Number: 7909

*Marie-France Bunting and staff*

*Half course (fall term). Sections M., W., F., at 11 or 12. EXAM GROUP: 4, 5*

A journey through various regions of France surveying the present and past identities of Bretagne, Alsace, Provence, Dordogne, and Périgord, through history, folklore, gastronomy, art, music, and regional literature. Resources for class discussions include current articles from the French press, historical, sociological and literary writings as well as films and video documents. Emphasis on oral communication. An advanced grammar review is offered along with practice in writing and vocabulary enrichment.

*Note:* Conducted in French. May not be taken Pass/Fail. Students may take no more than two courses numbered in the 30s.

*Prerequisite:* French 31, 35 or 36; 690 on the SAT II test or the Harvard Placement test; or permission of course head.

### **French 42. Introduction au monde francophone**

Catalog Number: 2581

*Mylène Priam*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Designed to introduce students to cultural issues expressed in the works of some leading Francophone writers and through art and films while helping them acquire greater skills and confidence in both oral and written expression. Discussions will focus on issues of identity, exile, tradition and modernity, rural/urban culture.

*Note:* Conducted in French. May not be taken Pass/Fail. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* French 31, 35, 36, or 37; 720 on the SAT II test or the Harvard Placement test; or permission of course head.

### **French 47b. La Société française à travers les âges**

Catalog Number: 6222

*Marie-France Bunting*

*Half course (fall term). Sections M., W., F., at 10 or 12. EXAM GROUP: 3, 5*

Aims to improve all linguistic skills while providing an historical survey of France from the Middle Ages to the end of the 19th century. Discussion will focus on prominent figures, social archetypes and major events that contributed to the formation of a national identity. Readings



from historical, literary and sociological sources, and films. Active use of the language in class and practice in writing will be emphasized.

*Note:* Conducted entirely in French. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* French 35, 36, 37, or 42; 750 on the SAT II or the Harvard placement test; or permission of course head.

### **French 48b. Contemporary French Society**

Catalog Number: 8290

*Marie-France Bunting and staff*

*Half course (spring term). Sections M., W., F., at 10 or 12. EXAM GROUP: 3, 5*

Designed to develop greater linguistic fluency while introducing students to major debates in French society today. Themes to be explored include: family, gender, the education system, urban problems and social stratification, immigration, and French politics. Students will participate in discussions based on readings from the French press as well as from sociological and literary sources. Films and video documents closely related to the course material will emphasize the social, cultural and human aspects.

*Note:* Conducted entirely in French. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* French 35, 36, 37, 42, 45, or 47b; 750 on the SAT II or the Harvard placement test; or permission of course head.

### **[French 50. Translation Workshop]**

Catalog Number: 2645

*Kimberlee Campbell*

*Half course (spring term). Hours to be arranged.*

An introduction to translation. Students work on literary and commercial texts, researching topics, preparing glossaries and practicing analytical skills. Students will also explore the theory and ideology of the practice of translation.

*Note:* Expected to be given in 2007–08. Conducted in French. Students may take no more than two courses numbered in the 50s.

### **[French 51. Writing Workshop: Atelier d'écriture]**

Catalog Number: 0575 Enrollment: Limited to 15 per section.

*Marie-France Bunting*

*Half course (fall term). Hours to be arranged.*

Aims to strengthen and develop competence in written expression. Using short stories, essays and sample texts drawn from history and philosophy, students learn to practice different styles in creative, argumentative, and analytical writings. Special emphasis is paid to stylistic variations, lexical nuances, and complex grammatical structures. In addition, each student presents several *explications de texte* (close reading of a text).

*Note:* Expected to be given in 2006–07. Conducted in French. May not be taken Pass/Fail.

Students may take no more than two courses numbered in the 50s.

*Prerequisite:* French 36, 37, 42, 47b, or 48b; 750 on the SAT II or the Harvard placement test; or permission of course head. Strongly recommended for concentrators and joint concentrators.

**French 52. Advanced Oral Expression**

Catalog Number: 2610

*Marie-France Bunting**Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Designed for students interested in working with the specificity of oral French in order to improve their comprehension, fluency, syntactic accuracy, and pronunciation. The aim of the course is: to fine-tune listening comprehension; to develop linguistic skills in presenting oneself, expressing emotions, debating, negotiating, etc.; and to improve pronunciation. Authentic materials on video cassettes will be used as models. In addition to practical and corrective work, students will participate collectively in a theatrical production.

*Note:* Conducted in French. May not be taken Pass/Fail. Students may take no more than two courses numbered in the 50s.

*Prerequisite:* French 37, 42, 47b, or 48b; 750 on the SAT II or the Harvard placement test; or permission of course head. Recommended for concentrators and joint concentrators.

**French 55 (formerly French 45). Le Français économique et commercial**

Catalog Number: 7122

*D. Bradford Marshall and staff**Half course (spring term). Section I: Tu., Th., 10–11:30; Section II: Tu., Th., 11:30–1. EXAM GROUP: 12, 13*

Designed for students working or traveling for business in French-speaking countries. Through audiovisual materials, the Internet, and the French press students become familiar with the current business and economic climate in France and find out about practices, customs, and “intangibles” that make French businesses different from their American counterparts. Those enrolled may take the Paris Chamber of Commerce and Industry exams and obtain an official diploma attesting to their proficiency in French.

*Note:* Conducted in French. May not be audited or taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 50s. Section on-line on the French 55 website.

*Prerequisite:* A placement score of 720 on the SAT II test or the Harvard Placement test; or permission of course head.

**French 70a. Introduction to French Literature I: From the Middle Ages to Modernity**

Catalog Number: 2865

*Alexia E. Duc**Half course (spring term). M., W., F., at 12;. EXAM GROUP: 5*

Readings and discussion of texts of various genres representative of central trends in French literature from the Middle Ages through the 18th century. Emphasis on developing analytical skills by tracing the transformations of ethical, literary, philosophical and social currents.

*Note:* Conducted in French.

*Prerequisite:* 720 on the SAT II test; the Harvard Placement test; equivalent preparation; or permission of course head.

**French 70b. Introduction to French Literature II: Representations of Change From the Romantics to the Present**

Catalog Number: 6720



*Janet Beizer*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Significant texts from the nineteenth and twentieth centuries examined in the light of close reading and contemporary criticism.

*Note:* Conducted in French; third hour devoted to discussion of texts studied.

*Prerequisite:* 720 on the SAT II test or the Harvard Placement test, equivalent preparation, or permission of course head.

**[French 70c. Introduction to French Literature III: The Francophone World]**

Catalog Number: 6432

*Francis Abiola Irele*

*Half course (spring term). Hours to be arranged.*

Studies short stories, poetry, film, and drama from Black Africa, Québec, Martinique, Guadeloupe, French Guyana, Vietnam, Algeria, Morocco, Tunisia, Madagascar, Djibouti, and La Réunion.

*Note:* Expected to be given in 2007–08. Conducted in French.

*Prerequisite:* 720 on the SAT II test or the Harvard Placement test, equivalent preparation, or permission of course head.

**\*French 91r. Supervised Reading and Research**

Catalog Number: 3954

*Marie-France Bunting and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial supervision of research on subjects not treated in regular courses.

**\*French 97. Tutorial—Sophomore Year: The Politics of Poetics: An Introduction to Literary and Cultural Analysis**

Catalog Number: 0173

*Alice Jardine*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

An introduction to literary and cultural interpretation as it has evolved in French Studies since WWII. Our conversations will be structured around rigorous analysis of key literary works in relation to literary theory, semiotics, psychoanalysis, and politics.

*Note:* Required of concentrators in their sophomore year. Open to non-concentrators with permission of course head.

**\*French 98. Tutorial—Junior Year**

Catalog Number: 0879

*Marie-France Bunting and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion of one term of French 98 is required of all honors concentrators.

**\*French 99. Tutorial—Senior Year**

Catalog Number: 2836

*Marie-France Bunting and members of the Department and Tutorial Board*

*Full course. Hours to be arranged.*



*Note:* For honors seniors writing a thesis. The first term may be counted as a half course only with the permission of the Undergraduate Adviser in French. Students who do not complete a thesis are required to submit a substantial paper in order to receive either half course or full course credit. To enroll, see Marie-France Bunting, Undergraduate Adviser.

### ***Cross-listed Courses***

**[Comparative Literature 165. The Holocaust and Problems of Representation]**

**[Foreign Cultures 21. Cinéma et culture française, de 1896 à nos jours]**

**[Foreign Cultures 22a. La critique sociale à travers l'humour](#)**

**[Foreign Cultures 22b. La critique sociale à travers l'humour](#)**

**[Foreign Cultures 88. The African Experience: Tradition and Modernity](#)**

**[\\*Freshman Seminar 36z. Utopia and Anti-Utopia](#)**

**[\\*Freshman Seminar 39s. Arthurian Literature in Medieval Context](#)**

**[Literature and Arts C-25. The Medieval Stage]**

**[Literature and Arts C-43. The Medieval Court]**

**[Literature and Arts C-55. Surrealism: Avant-Garde Art and Politics between the Wars]**

### ***For Undergraduates and Graduates***

Open to students with 750 on the Harvard Placement Test or SAT II, a score of 5 on the Advanced Placement Test in language or literature, previous coursework at Harvard of an appropriate level, or by permission of course head.

**[French 100. History of the French Language]**

Catalog Number: 4197

Virginie Greene

*Half course (fall term). Hours to be arranged.*

Presents the evolution of French from Latin to modern French, introduces basic phonology and morphology, discusses the various policies which attempted to rule the use of French and its dialects from the 9th century to the present.

*Note:* Expected to be given in 2006–07. Conducted in French. Required of all graduate students in French.

**[French 102. Introduction to Medieval Literature and Old French]**

Catalog Number: 9929

Virginie Greene

*Half course (spring term). Hours to be arranged.*

Provides students with linguistic, literary and cultural means of exploring French medieval literature. We will study verse and prose works from the 12th to the 15th century, using both editions in Old French and translations in modern French.

*Note:* Expected to be given in 2006–07. Conducted in French.

**[French 108. “Amours et armes”: A Study of Medieval Romances](#)**

Catalog Number: 3495

Virginie Greene

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*



Explores how war and love define romance. Readings will be organized around famous love stories (such as those of Dido and Aeneas, Lancelot and Guenièvre, Tristan and Yseut), and less famous ones, in works from the 12th to the 15th century.

*Note:* Conducted in French.

**[French 112. From the Troubadour to the “Grand Rhétoriqueur”: Lyric Poetry in Medieval France (12th to 15th Century) ]**

Catalog Number: 5007

*Virginie Greene*

*Half course (fall term). Hours to be arranged.*

Medieval poets created both new poetic forms and new figures of poets. Singers, writers, composers, lovers, dreamers, rhetoricians, moralists, and preachers: poets could be all of those. This course studies how their poetry grew from and elaborated upon the impulse “I have to sing” (*chanter m’estuet*) to become a highly self-conscious art of writing.

*Note:* Expected to be given in 2006–07. Conducted in French.

**French 118. French Poetry: Pleiade and Baroque**

Catalog Number: 1142

*Tom Conley*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Takes up the impact of the Pléiade and the Lyon School on poetry in the Wars of Religion and their aftermath. Includes study of Scève, Marguerite de Navarre, Ronsard and his school, Jodelle, Desportes, D’Aubigné, Tyard, Sponde, Chassignet, Tristan l’Hermite, Malherbe and the early Corneille. Emphasis placed on the relation of lyric to space and nascent science.

*Note:* Conducted in French.

**French 121. The Text of the Renaissance**

Catalog Number: 4006

*Tom Conley*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Studies writing of the Renaissance in cultural and political context; includes readings of Rhétoriciens, Marot, Rabelais, *arts poétiques*, Ronsard, Pléiade and Baroque poetry, d’Aubigné, and essays by Montaigne.

*Note:* Conducted in French.

**[French 125. Crimes and Criminals in the 17th Century]**

Catalog Number: 8229

*Alexia E. Duc*

*Half course (spring term). Hours to be arranged.*

Explores representations of criminality in 17th-century France. After a short inquiry into the justice system and famous cases of the period, we look at the nature and meaning of “evil-doing” in the early modern period as it is represented, condemned or celebrated in the literature and the arts. Whether against the State, God or nature, these crimes, their judges and their punishments help us understand what it means to be human for early-modern men and women.

*Note:* Expected to be given in 2006–07. Conducted in French.



### **French 126. Literature and Humanism in the 17th Century I: The Courtier, the Hero and the Saint**

Catalog Number: 6971

*Alexia E. Duc*

*Half course (fall term). Th., F., 3–4:30. EXAM GROUP: 8, 9, 17, 18*

An exploration of the relations between ethics and writing in the 17th century. The readings focus on three major figures of the period (the courtier, the hero, and the saint) in order to analyze the humanist legacy of the Renaissance in the times of absolutism and the relationships between literary genres and anthropology. Readings include: d'Urfé, Caussin, Sales, Charron, Corneille, Mairet, Cyrano de Bergerac, Retz, Molière.

*Note:* Conducted in French.

### **[French 131. From the Study to the Stage: Writing the Self in Early Modern France]**

Catalog Number: 7385

*Alexia E. Duc*

*Half course (fall term). Hours to be arranged.*

Presents a counter-narrative to conventional histories of the emancipation of the individual from the Renaissance to the Enlightenment. In 17th-century France, the prevailing modes of constructing the self reflect a strong skepticism towards the very possibility of self-knowledge. Explores the work's reflection on the relationship between subjectivity and discourse, society, God. Readings include Montaigne, lyrical poetry (T. de Viau), theater (Corneille, Molière) moralist and epistolary writing (La Rochefoucauld, Mme. de Sévigné, Bussy-Rabutin).

*Note:* Expected to be given in 2007–08. Conducted in French.

### **[French 132a. 20th-Century French Fiction I: The Realist Mode]**

Catalog Number: 4382

*Susan R. Suleiman*

*Half course (fall term). Hours to be arranged.*

How has realism been interpreted by its major modern practitioners in French? Is realism in fiction a style, a genre, an ideology, a way of seeing, a way of reading? What is the relation between realism and history, politics, sexual politics, ethics? Discussions of works by Colette, Gide, Céline, Malraux, Sartre, Camus, Beauvoir, and others, as well as selected critical and theoretical essays.

*Note:* Expected to be given in 2007–08. Conducted in French.

### **[French 132b. 20th-Century French Fiction II: The Experimental Mode]**

Catalog Number: 1890

*Susan R. Suleiman*

*Half course (fall term). Hours to be arranged.*

What are some alternatives to (or subversions of) realism in fiction? We will examine four major experimental currents or movements in 20th-century imaginative writing: Surrealism, the *nouveau roman*, the Oulipo, and *écriture féminine*. Discussion of works by Breton, Bataille, Robbe-Grillet, Sarraute, Queneau, Perec, Duras, Wittig, Cixous, as well as selected critical essays.

*Note:* Expected to be given in 2006–07. Conducted in French.





**[French 136. Feminist Literary Criticisms]**

Catalog Number: 3845

*Alice Jardine*

*Half course (spring term). Hours to be arranged.*

Close readings of postwar French fiction and theory with emphasis on what is called “the feminine” in key psychoanalytic, philosophical, and literary writings of the French poststructuralist tradition. What has been the legacy of fifty years of dialogue between French postwar theory and feminist practice in the US? Writers considered include Cixous, Duras, Hyvrard, Irigaray, Kristeva, and Wittig as well as Deleuze, Derrida, and Lacan.

*Note:* Expected to be given in 2007–08. Conducted in English.

*Prerequisite:* Excellent reading knowledge of French.

**[French 137. 20th-Century French Theater]**

Catalog Number: 4065

*Susan R. Suleiman*

*Half course (spring term). Hours to be arranged.*

We explore the richness and variety of French theatrical writing and theory, starting with Jarry’s groundbreaking *Ubu Roi* (1896); special emphasis on experimental and avant-garde productions. Discussion of works by Jarry, Apollinaire, Artaud, Sartre, Beckett, Genet, Ionesco, Duras, Cixous, and others.

*Note:* Expected to be given in 2007–08. Conducted in French.

**[French 139a. The 18th Century: Self and Society](#)**

Catalog Number: 3637

*Christie McDonald*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

An exploration of how the relationship between self and other, society and utopia, inaugurates a discourse on change from the second half of the 18th century through the French Revolution: Marivaux, Rousseau, Diderot, d’Alembert, Voltaire, Sade, Gouges, Beaumarchais, Condorcet.

*Note:* Conducted in French.

**[French 139b. The 18th Century: Ethical Dilemmas]**

Catalog Number: 2223

*Christie McDonald*

*Half course (fall term). Hours to be arranged.*

Questions how notions of personhood and otherness inhabit the emergent novel, exploring the way in which events and values are resisted or subsumed in literary discourse and the kind of social and political responsibility that accompanies it. Readings will be taken from the works of Charrière, Gouges, Laclos, Marivaux, Montesquieu, Rousseau, Sade, Voltaire, etc.

*Note:* Expected to be given in 2007–08. Conducted in French.

**[French 157. Engendering the 19th-Century Novel]**

Catalog Number: 1338

*Janet Beizer*

*Half course (spring term). Hours to be arranged.*

During the 19th-century, the reputation of the novel evolved from a frivolous, light genre to a



weightier, worthier one. In gendered terms, the earlier romantic novel was seen as feminine or effeminate, the realist/naturalist novel as muscular, masculine, others as hermaphroditic. This course explores the rise of the novel and its affiliation with gender. (Readings: texts by Gautier, Balzac, Sand, Flaubert, Zola, Rachilde, etc.)

*Note:* Expected to be given in 2007–08. Conducted in French.

### **[French 161. Rereading Realism]**

Catalog Number: 1729

*Janet Beizer*

*Half course (spring term). Hours to be arranged.*

Is Realism real? Is Naturalism natural? As we read Realist and Naturalist texts, we will consider how ideological and aesthetic conventions of the “real” and the “natural” interacted with literary movements of the second half of the nineteenth century, focusing particularly on texts that represent representation. Readings will include Balzac, Flaubert, Huysmans, Zola, Rachilde.

*Note:* Expected to be given in 2006–07. Conducted in French.

### **[French 165. Marcel Proust]**

Catalog Number: 4620

*Christie McDonald*

*Half course (spring term). Hours to be arranged.*

In Proust’s novel, *A la recherche du temps perdu*, questions of time and memory, truth and signification, literature and philosophy converge to ask: who am I? What does it mean to become a writer? Discussion of Proust’s novels and essays, as well as a number of critical texts.

*Note:* Expected to be given in 2007–08. Conducted in French.

### **French 167. Parisian Cityscapes**

Catalog Number: 7641

*Verena A. Conley*

*Half course (fall term). M., 3–5;. EXAM GROUP: 8, 9*

Examines the rapid urbanization of Paris from World War II to the present by means of fiction, films and critical essays. Investigates how the Americanization of France, decolonization, immigration, globalization and the European Union continue to restructure the city with repercussions on its social, political, and artistic life (Allouache, Augé, Balibar, Beauvoir, Beyala, Godard, Kassovitz, Maspero, Latour, Ross, and others).

*Note:* Conducted in French.

### **French 169. Realist Fiction in French Culture**

Catalog Number: 2667

*Sandy Petrey (SUNY Stony Brook)*

*Half course (spring term). F., 2–4. EXAM GROUP: 7, 8*

The vast cultural upheaval that followed the French Revolution has been plausibly credited with producing the West’s modern sense of history. That upheaval also enclosed Balzac, Stendhal, and Sand’s invention of the realist novel, the dominant form of Western fiction for two centuries. Our course will examine this convergence of innovations by linking two questions: What makes a society feel historical? What makes a fiction look real?

*Note:* Conducted in French.



**[French 170. The City]**

Catalog Number: 3772

Verena A. Conley

*Half course (spring term). Hours to be arranged.*

Focuses on representations of the city in literature (Mercier, Balzac, Baudelaire, Zola, Breton, Aragon) and theory (Benjamin, Lefebvre). Analyzes the evolution of the concept under the impact of industrialization and technological inventions.

*Note:* Expected to be given in 2006–07. Conducted in French.

**French 171. A Certain Idea of France: Nationalisms, Race, and Culture**

Catalog Number: 2673

Lawrence D. Kritzman (Dartmouth College)

*Half course (fall term). M., 1–3; . EXAM GROUP: 6, 7*

Since the time of the French Revolution the issues of citizenship, race, and culture have been linked to the varieties of French nationalism and what it means to be “French”. The course will examine theories of French nationalism and the politics of race both conceptually and historically. Topics include theories of the other, political propaganda, and immigration. Texts by Renan, Drumont, Arendt, Sartre, Fanon, Césaire, Kristeva, Nancy, Balibar, Derrida, and Targuief.

*Note:* Conducted in French.

**French 180. 20th-Century Women Writing in French**

Catalog Number: 4566

Alice Jardine

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

A consideration of some of the major novels by women writing in French from Colette to Djébar. Emphasis is added to the literary, critical and political questions raised by the inclusion of women’s cultural work into the canon.

*Note:* Conducted in French or English; to be decided by professor and students on first day of class.

*Prerequisite:* Good reading knowledge of French.

**[French 182. Politics and Poetics]**

Catalog Number: 1172

Verena A. Conley

*Half course (spring term). Hours to be arranged.*

Examines how recent political questions in France and in the world (immigration, globalization, transformations of the nation state, citizenship, etc.) are addressed in fiction, theory and film (Derrida, Cixous, Badiou, Balibar, Virilio, and others).

*Note:* Expected to be given in 2006–07. Conducted in French.

**[French 184. Cinema and the auteur]**

Catalog Number: 0512

Tom Conley

*Half course (fall term). Hours to be arranged.*

Studies development of *auteur* theory in French film and criticism. Readings include *Cahiers du*



*cinéma*, Bazin, Deleuze, Godard, and Foucault. Viewings include Renoir, American and Italian *auteurs*, and post-new wave cinemas.

*Note:* Expected to be given in 2006–07. Conducted in French.

**French 185. Culture, Citizenship, and Narrative Representation in 20th-Century Francophone Literature**

Catalog Number: 1143

Mylène Priam

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Through major works of prominent Francophone authors from various origins who discuss their own comprehension—fictionalized, poetic or cinematic—of being French and/or Caribbean, African, from Maghreb, etc., we explore the multiethnic foundation of contemporary France and the question of French cultural, national or social identity in contemporary works from the Francophone world, and decipher, question and deconstruct such notions as territoriality, ethnicity, citizenship, of Republic and of national or continental sentiment.

*Note:* Conducted in French.

**French 187. Urban Spaces as Architecture of Memory in the Contemporary Antillean Novel**

Catalog Number: 1166

Mylène Priam

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Explores cultural, social and historical transformations which have played a decisive role in the construction and evolution of the Antillean cityscape. The advance of urbanism, rural migration, are mutations that Martinicans and Guadeloupeans had to learn to familiarize themselves with within the framework of new urban development politics, and of an always evolving apprehension of space. Selected novels, poems and critical essays will show the impact of such mutations on the construction of West Indian memory.

*Note:* Conducted in French.

**[French 192. The Literary and Cultural Renaissance in Haiti, 1920-60]**

Catalog Number: 7505

Francis Abiola Irele

*Half course (spring term). Hours to be arranged.*

The literary renewal that began in Haiti in the 1920s, in the wake of the American occupation, will form the theme of this course. We will review the island's colonial history and its political evolution since independence as background to the literature. We will thereafter examine the works of leading writers and intellectuals-Price-Mars, Depestre, Roumain, Alexis, Briere-and consider their significance for the black and francophone literary corpus.

*Note:* Expected to be given in 2007–08.

**French 195 (formerly French 277). The African and Caribbean Novel in French: Comparative Perspectives**

Catalog Number: 5245

Francis Abiola Irele

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*



Examines a representative selection of novels by Francophone African and Caribbean novelists, and evaluates the development of the narrative genre that has arisen from the double heritage of the oral tradition and the literate conventions of the West.

*Note:* Conducted in French.

*Prerequisite:* Solid reading knowledge of French.

**French 196. 20th-Century Theater in the Francophone Caribbean and the Indian Ocean: “de la Tragédie au Burlesque”**

Catalog Number: 2684

*Mylène Priam*

*Half course (spring term). F., at 1, W., 1–3. EXAM GROUP: 6, 7*

Analyzes the evolution of Theater from French Guyana, Haiti, Martinique, Guadeloupe, and La Reunion through the study of its currents, themes, schools, reception, and adaptation.

Discussions of plays by Georges Mauvois, Jose Pliya, Emmanuelle Gendrin, G. Desportes, etc.

*Note:* Conducted in French.

***Cross-listed Courses***

**African and African American Studies 185. Perspectives in the African Novel**

**[Comparative Literature 165. The Holocaust and Problems of Representation]**

**[History of Art and Architecture 174s. Body Image in French Visual Culture: 18th and 19th Century]**

**\*Literature 140. Colonial and Post-Colonial Spaces: France and North Africa**

**Visual and Environmental Studies 190f. Contemporary French Cinema**

***Primarily for Graduates***

**French 213. In Search of a Medieval Subject**

Catalog Number: 0952

*Virginie Greene*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

We will read various medieval authors ranging from Augustine to Christine de Pizan to identify a medieval subjectivity. Modern texts on subjectivity (by Hegel, Sartre, and others) will be used as a counterpoint.

*Note:* Conducted in French. Open to qualified undergraduates.

**[French 224. Theater and Politics in the Classical Age: Corneille, Racine, Molière]**

Catalog Number: 6943

*Alexia E. Duc*

*Half course (fall term). Hours to be arranged.*

Focuses on the representation of the relationship between the hero and the state in tragedy and on the reflection that comedy provides on power, force and discourse in times of absolutism.

Political readings included.

*Note:* Expected to be given in 2006–07. Conducted in French.



**French 238. Failure and Change: Rereading Enlightenment**

Catalog Number: 2066

*Christie McDonald*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Analysis of crossover between discourses: religious, political, social, philosophical, literary. Topics include authority, freedom, equality, sentiment, reason, libertinism, fanaticism, tolerance. 18th-century readings: Kant, Rousseau, Sade, Voltaire, etc.; 20th-century European and American debates about Enlightenment.

*Note:* Conducted in French.

**[French 252. Sounds of Silence]**

Catalog Number: 2954

*Janet Beizer*

*Half course (fall term). Hours to be arranged.*

Silence, feared and revered by literature as its ambiguous dark double (mirror of textual dissolution/sign of textual self-transcendence) is never far from the text. This seminar will explore silence as it haunts nineteenth-century texts.

*Note:* Expected to be given in 2007–08. Conducted in French.

**French 256. Sand, Colette, and the Mothers of Invention**

Catalog Number: 3546

*Janet Beizer*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Women writing often seek legitimation through literary foremothers such as George Sand and Colette. We will explore the maternal imaginary as it plays out in novels and memoirs by Sand, Colette, and their critics.

*Note:* Conducted in French or English, to be determined by class composition. Readings in French.

**[French 259. The Culture of Hysteria in Nineteenth-Century France ]**

Catalog Number: 3349

*Janet Beizer*

*Half course (fall term). Hours to be arranged.*

Reading medical and literary narratives of hysteria, we will ask why the disease flourished in this time and place, tracing hysteria as symptom of a cultural malaise. Readings in canonical and popular novels, medical encyclopedias and treatises.

*Note:* Expected to be given in 2006–07. Conducted in French or English, to be determined by class composition. Readings in French.

**[French 263. French Society in Film and History, 1895-1950]**

Catalog Number: 8004

*Tom Conley and Patrice Higonnet*

*Half course (spring term). Hours to be arranged.*

Studies the intersections of culture, cinema, and society from Lumière and Méliès to the threshold of La nouvelle vague. Emphasis on how, from its origins, film portrays and projects



history. Close analysis of silent cinema, poetic realism, and film under and after the Occupation.  
*Note:* Expected to be given in 2006–07. Conducted in French.

**[French 270. War and Memory: Representations of World War II and the Occupation in Postwar French Literature, History, and Film]**

Catalog Number: 7428

*Susan R. Suleiman*

*Half course (spring term). Hours to be arranged.*

France was the only country in Western Europe that both “lost” and “won” World War II. We explore individual and collective consequences of that split. Works include Sartre, Céline, Simon, Perec, Duras, Modiano, and Ophüls.

*Note:* Expected to be given in 2007–08. Conducted in French.

**French 271. Legacies of Poststructuralism: An Introduction**

Catalog Number: 8448

*Verena A. Conley*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

We examine the legacies of poststructuralism, or “high theory” and literary theory today. We study the works of several theoreticians (Badiou, Cixous, Deleuze, Derrida, Foucault, Nancy, et al.) and their effects on various disciplines from literature to the media.

*Note:* Conducted in French. Open to qualified undergraduates.

**[French 273. Globalization and French Culture]**

Catalog Number: 3765

*Verena A. Conley*

*Half course (spring term). Hours to be arranged.*

Globalization in French cultural theory, fiction and film. Texts read include Balibar, Deleuze-Guattari, Derrida, Finkelkraut, Latour, Negri, Virilio and others.

*Note:* Expected to be given in 2007–08. Conducted in French.

**[French 275 (formerly French 186). The Négritude Poets]**

Catalog Number: 7995

*Francis Abiola Irele*

*Half course (fall term). Hours to be arranged.*

Focuses on the poets associated with the Négritude movement, notably Damas, Césaire, Senghor, and David Diop. Attention is paid to the themes of racial protest and cultural reclamation central to Négritude discourse.

*Note:* Expected to be given in 2006–07.

**[French 279. Spatial Textures of Critical Theory ]**

Catalog Number: 1811

*Tom Conley*

*Half course (spring term). Hours to be arranged.*

Examines space as concept and practice in contemporary theory. Readings selected from Blanchot, Lévi-Strauss, Foucault, de Certeau, Augé, and Deleuze. Secondary literature includes





geography of experience: Yi Fu Tuan, Edward Casey, Henri Lefèbvre.

*Note:* Expected to be given in 2006–07. Language of instruction to be determined.

### **French 285r. French Literature: Seminar**

Catalog Number: 7479

*Tom Conley*

*Half course (fall term). Th., 1:30–4. EXAM GROUP: 15, 16, 17*

Topic for 2005-06: Literature, Cinema and Cartography. Investigates mapping and cartographic theory in literature and literary theory through cinema. Includes Blanchot, Certeau, Deleuze, Foucault, Harley, Jacob, Perec, Ropars, Virilio. Viewings: from silent film through the post-new wave.

*Note:* Conducted in French. Open to qualified undergraduate students.

### ***Graduate Courses of Reading and Research***

Advanced graduate students reading in the field of a proposed doctoral dissertation or working in a field of specific interest not covered by courses may propose individual projects of reading and research to be undertaken under the direction of individual members of the Department.

### **\*French 320. French Literature: Supervised Reading and Research**

Catalog Number: 1798

*Janet Beizer 3957 (on leave spring term), Tom Conley 1908, Verena A. Conley 2250, Alexia E. Duc 3801, Judith Frommer 7066 (on leave 2005-06), Virginie Greene 1007, Francis Abiola Irele 4354, Alice Jardine 7457, Christie McDonald 1160, Mylène Priam 5302, and Susan R. Suleiman 7234*

### **\*French 330. Direction of Doctoral Dissertations**

Catalog Number: 7843

*Janet Beizer 3957 (on leave spring term), Tom Conley 1908, Verena A. Conley 2250, Alexia E. Duc 3801, Virginie Greene 1007, Francis Abiola Irele 4354, Alice Jardine 7457, Christie McDonald 1160, Mylène Priam 5302, and Susan R. Suleiman 7234*

### ***Italian***

The term “placement score” or “placement test” below and in the various course descriptions refers to the Italian placement test given during Freshman Week for freshmen and usually on Registration Day for returning students. All students with some previous Italian in secondary school are required to take the Placement Test.

No student may enter Italian A after the eighth meeting of the class, Italian Bab after the third meeting, or a C level course after the sixth meeting. Students should sign up for Italian A through 51 online on the course website before 4:00 pm on the first day of the term.

### ***Primarily for Undergraduates***



### **Italian A. Beginning Italian**

Catalog Number: 4309

*Elvira G. DiFabio and staff*

*Full course (indivisible). M. through F., sections at 9, 10, 11, or 1. EXAM GROUP: 10*

For students with little or no knowledge of Italian. Aims at achieving basic communication skills and vocabulary. Emphasis on oral expression and listening comprehension in the fall term, with increasing emphasis in the spring term on reading and writing. Introduction to Italian literature through short stories in the spring term. Course materials include complete software program for Italian grammar and vocabulary.

*Note:* Conducted in Italian. Students whose placement score does not entitle them to enter a more advanced course are assigned to Italian A. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian A website.

### **Italian Ax. Reading Italian**

Catalog Number: 4015

*Elvira G. DiFabio and staff*

*Half course (spring term). M., W., 3–5. EXAM GROUP: 8, 9*

For students (both undergraduate and graduate) with little or no knowledge of Italian. Aims at the rapid development of reading skills as a tool for research. Selections of materials in accordance with the needs of the participants.

*Note:* Not open to auditors. May not be used to fulfill the language requirement. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Ax website.

### **\*Italian Bab. Intensive Beginning Italian: Special Course**

Catalog Number: 3065 Enrollment: Limited to 15.

*Chiara Frenquellucci and staff*

*Full course (fall term; repeated spring term). Section I: M., through F., at 10 and Tu., Th., at 11; Section II: M., W., F., at 12 and Tu., Th., 1–3. EXAM GROUP: 3, 12*

A complete first-year course in one term for students with no knowledge of Italian. Speaking, listening, reading, and writing skills are all emphasized with class time focused on developing oral/aural skills. Selected readings from 20th-century authors.

*Note:* May not be used to fulfill the language requirement and may not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Conducted in Italian. Section on-line on the Italian Bab website.

*Prerequisite:* An advanced knowledge of at least one foreign language, preferably a modern Romance language, but no previous study of Italian.

### **Italian Ca. Intermediate Italian I: L'italiano in giallo, rosa e nero**

Catalog Number: 3217

*Chiara Frenquellucci and staff*

*Half course (fall term). Section I: M., W., F., at 9 and W., at 1; Section II: M., W., F., at 1 and W., at 2; Section III: M., W., F., at 1 and W., at 3. EXAM GROUP: 2, 6*

Refines and expands knowledge of structures and vocabulary that students have acquired in beginning Italian, highlighting the functions of describing and comparing, making recommendations and talking about the past. Students are introduced to contemporary Italian



culture through readings that include a mystery (un giallo), a romance (un rosa), and a gothic tale (un nero).

*Note:* Conducted in Italian. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Ca website.

*Prerequisite:* Italian A or Bab, or 450-599 on the SAT II test or the Harvard Placement test, or permission of course head.

### **Italian Cb. Intermediate Italian II: Raccontiamo storie!**

Catalog Number: 6805

*Chiara Frenquellucci and staff*

*Half course (spring term). Section I: M., W., F., at 9 and W., at 1; Section II: M., W., F., at 1 and W., at 2; Section III: M., W., F., at 1 and W., at 3. EXAM GROUP: 5*

A logical continuation of Italian Ca, with a grammar review highlighting the functions of talking about tastes, making hypotheses, and talking about the future. Content includes Calvino folktales and Collodi's *Pinocchio*. Sophisticated written/oral communication through regular writing assignments, and a special project at the end of the term, normally the staging of a class rendition of *Pinocchio*.

*Note:* Conducted in Italian. Open to students whose placement score indicates a more advanced course, or as a continuation of Italian Ca. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Cb website.

### **\*Italian Dab. Intensive Intermediate Italian: L'italiano delle favole**

Catalog Number: 7258 Enrollment: Limited to 15.

*Chiara Frenquellucci and staff*

*Full course (fall term; repeated spring term). M., W., F., at 12, Tu., Th., 1–3. EXAM GROUP: 5, 15, 16*

A complete second-year course in one term for students with a basic knowledge of Italian. Speaking, listening, reading, and writing skills are all emphasized through seven principal functions of communication. Class time focused on further developing oral/aural skills through the retelling of popular folktales. Writing skills developed through a weekly journal with focused assignments, and an end of term class writing project.

*Note:* May not be used to fulfill the language requirement. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Conducted in Italian. Section on-line on the Italian Dab website.

*Prerequisite:* Italian A or Bab, 450-599 on the SAT II test or the Harvard Placement test, or permission of course head.

### **Italian 33. Oral Expression: La musica dell'italiano**

Catalog Number: 6463

*Elvira G. DiFabio and staff*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

An oral expression course based on Italian Opera, Italian 33 is intended for students with an advanced-intermediate knowledge of Italian but does not require prior knowledge of either music or opera. Content focuses on both the cultural and the linguistic elements of the "musical voice" of Italians as expressed by Rossini, Verdi, Donizetti, Puccini, Leoncavallo, and others.

*Note:* Conducted in Italian. Monthly screenings to be arranged. May not be taken for credit by



students who have passed Italian 35. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 33 website.

*Prerequisite:* Italian Cb, 600 or above on the SAT II or Harvard Placement test, or permission of course head.

### **Italian 35. Upper-Level Italian I: Parliamo dell'Italia**

Catalog Number: 2659

*Elvira G. DiFabio and staff*

*Half course (fall term). M., W., F., at 12 or 1. EXAM GROUP: 5, 6*

Insights into Italian society and culture, especially through Italian newspaper and magazine articles, feature films, and videotapes. For students with a solid grasp of the fundamentals of Italian grammar. Aims at improving command of the language both in speaking and writing, combined with reading strategies. Practice consists of discussions, exercises in diction, and written reports.

*Note:* Conducted in Italian. May not be taken for credit by students who have passed Italian 33. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 35 website

*Prerequisite:* Italian Cb, 630 or above on the SAT II test or the Harvard Placement test, or permission of course head.

### **Italian 36. Upper-Level Italian II: Letteratura e cinema**

Catalog Number: 5223

*Elvira G. DiFabio and staff*

*Half course (spring term). M., W., F., at 12; M., W., F., at 1. EXAM GROUP: 5, 6*

Aims at advancing students' proficiency in speaking, reading and writing through vocabulary development and extension of control of higher-level syntactical patterns. Students read two complete novels and selections from two others, and view feature films on which they are based, all related to twentieth-century Italian society. Practice through class presentations, compositions, and discussions.

*Note:* Conducted in Italian. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 36 website.

*Prerequisite:* Italian 35 or permission of course head.

### **Italian 40. Advanced Oral Expression: Teatro dal vivo**

Catalog Number: 0804 Enrollment: Limited to 12.

*Elvira G. DiFabio and staff*

*Half course (spring term). M., Th., 3–5. EXAM GROUP: 8, 9, 17, 18*

Reading, analyzing, enacting plays by Nobel Prize-winners Luigi Pirandello and Dario Fo. Student preparation culminates in the production of a theatrical work at the end of the term.

*Note:* Conducted in Italian. Open to graduate students with permission of course head. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 40 website.

*Prerequisite:* Italian 33 or higher, or permission of course head.

### **Italian 44. Advanced Italian: Effetto Commedia**

Catalog Number: 5776



*Elvira G. DiFabio and staff*

*Half course (fall term). M., Th., 3–5. EXAM GROUP: 8, 9, 17, 18*

Comedy Italian-style in cinema (from Totò to Benigni) and its origins. Presents students with another dimension of Italian culture, while perfecting their language skills. Problems in composition addressed through short weekly assignments; grammar review in context. Weekly video screenings.

*Note:* Conducted in Italian. Open to graduate students with permission of course head. May be taken Pass/Fail or Sat/Unsat by GSAS students. Section on-line on the Italian 44 website.

*Prerequisite:* Italian 35 or higher, or permission of course head. Appropriate for concentrators electing the Italian Studies track.

### **[Italian 48. Advanced Italian: Voices from Italy: Issues of Identity]**

Catalog Number: 0178

*Elvira G. DiFabio*

*Half course (fall term). Hours to be arranged.*

An exploration of various identities of Italy, including that of non-Italians in contemporary Italy and Italians living abroad. Students will investigate these issues from a wide variety of sources, including literary, historical and sociological texts, news reports and feature films. Frequent oral and written assignments. Grammar reviewed in context, with particular emphasis on the functions of describing, summarizing and expressing an opinion.

*Note:* Expected to be given in 2006–07. Conducted in Italian. Open to graduate students with permission of course head. Section on-line on the Italian 48 website.

*Prerequisite:* Italian 35 or higher, or permission of course head. Appropriate for concentrators selecting the Italian Studies track.

### **Italian 50. Literary Translation**

Catalog Number: 5676

*Elvira G. DiFabio and staff*

*Half course (spring term). M., 2–4, W., 3–5. EXAM GROUP: 7, 8, 9*

Translation from English to Italian, and occasionally from Italian to English, using sample texts from literature, history, and philosophy, as well as texts being considered for publication. Discussion of a variety of styles, literary devices, semantic and cultural distinctions, and structural differences, along with testimony from a number of authors, including Pavese, Eco and Venuti.

*Note:* Conducted in Italian. Open to graduate students with permission of course head. May be taken Pass/Fail or Sat/Unsat by GSAS students. Section on-line on the Italian 50 website.

*Prerequisite:* Italian 44 or higher or permission of course head.

### **\*Italian 91r. Supervised Reading and Research**

Catalog Number: 2287

*Elvira G. DiFabio and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial supervision of research on subjects not treated in regular courses.

### **\*Italian 97. Tutorial—Sophomore Year**

Catalog Number: 1795



*Elvira G. DiFabio and members of the Department and Tutorial Board*

*Half course (fall term). Hours to be arranged.*

*Note:* Conducted in Italian. Successful completion of one term of Italian 97 is required of concentrators.

**\*Italian 98. Tutorial—Junior Year**

Catalog Number: 1167

*Elvira G. DiFabio and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Italian 98 is required of all honors concentrators.

**\*Italian 99. Tutorial — Senior Year**

Catalog Number: 7840

*Elvira G. DiFabio and members of the Department and Tutorial Board*

*Full course. Hours to be arranged.*

*Note:* Successful completion of one term of Italian 99 is required of all honors concentrators.

***Cross-listed Courses***

**\*Freshman Seminar 34k. Italian-American Literature, History, and Identity  
Literature and Arts A-26. Dante's *Divine Comedy* and Its World**

***For Undergraduates and Graduates***

**Italian 116. The Renaissance: Power, Thought, Imagination**

Catalog Number: 1211

*Francesco Erspamer*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A survey of the one hundred years that changed the world. The analysis of seminal texts by Machiavelli, Castiglione, Michelangelo, Vasari, and Galileo, is aimed at the study of the making of modernity.

*Note:* Conducted in English.

**[Italian 120b. Dante's *Purgatorio* and *Paradiso*]**

Catalog Number: 2558

*Lino Pertile*

*Half course (spring term). Hours to be arranged.*

*Dante's *Divina Commedia*.*

*Note:* Expected to be given in 2006–07. Conducted in English.

**Italian 123. Semantics of Desire: The Erotic Theme in Dante's Poetry**

Catalog Number: 8912

*Lino Pertile*

*Half course (spring term). Tu., 1–3, Th., at 9. EXAM GROUP: 11, 15, 16*

Examines Dante's discourse on love, earthly and heavenly, in the context of the literature and culture of his times. In addition to a selection from Dante's *Comedy*, texts will include Book 4 of



Virgil's *Aeneid*, Ovid's *Ars amatoria* and Andreas Cappellanus' *De amore*, Saint Bernard's commentary on the *Song of Songs*, Guinizzelli's and Cavalcanti's *Rime* and Iacopone da Todi's *Laude*.

*Note:* Conducted in Italian.

*Prerequisite:* Reading knowledge of Italian.

### **[Italian 141. Renaissance Epic: Power, Imagination, and the Making of Modernity]**

Catalog Number: 5328

*Francesco Erspamer*

*Half course (fall term). Hours to be arranged.*

The literary masterpieces of the golden century of Italian civilization were two narrative poems, Ariosto's *Orlando Furioso* and Tasso's *Jerusalem Delivered*, both celebrating the chivalric spirit of a bygone era. The course analyzes their relation with the epic tradition and their significance in the making of the modern conception of the world.

*Note:* Expected to be given in 2007–08. Conducted in Italian.

### **Italian 148. Between Africa and Italy: Literature, Film, and Cartoons**

Catalog Number: 1219

*Giuliana Minghelli*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

From Emilio Salgari's 19th-century adventure novels, to the postmodern comics of Hugo Pratt, this course investigates the representation of Africa in Italian culture. How does Africa shape the work of Modernist writers who lived in Alexandria like Marinetti, Ungaretti, and Cialente, and filmmakers like Pasolini and Antonioni, shooting their postmodern wanderings "on location" in Africa? And reversing the gaze, what is the image of Italy in the texts of recent African immigrant writers?

*Note:* Conducted in Italian

### **Italian 157. The Modern Image: Photography and Cinema in Italian Literature**

Catalog Number: 1220

*Giuliana Minghelli*

*Half course (spring term). Th., 1–3:30. EXAM GROUP: 15, 16, 17*

How did the advent of the mechanically-reproduced image impact the Italian literary imagination, advance epistemological and formal innovations, speed up and fragment the text? This course examines Verga's passion for photography and how it influenced the poetics of *verismo*, D'Annunzio's adventure with cinema, Pirandello's critique of and experimentation with the new medium, and other intersections between the mechanical image, both still and in motion, and the written text from modernism to neorealism, and beyond.

*Note:* Conducted in English.

### **Italian 176. Italian Modernism**

Catalog Number: 7812

*Giuliana Minghelli*

*Half course (fall term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

In what sense can we speak of an Italian Modernism? This course will examine the Italian contribution to the Modernist project by analyzing key issues in reference to disruptive texts: the





crisis of the naturalist aesthetic in D'Annunzio's fiction and Pirandello's drama; the various embodiments of the "diseased" subject of Modernism vis-à-vis the rise of Fascism.

*Note:* Conducted in Italian.

### **Italian 178. Contemporary Italy: Identities, Society, Cultures**

Catalog Number: 3111

*Francesco Erspamer*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A survey and a discussion of how Italy has changed since World War II and particularly in the last fifteen years from a poor, agricultural country of emigrants to an opulent, industrialized and multiethnic society, and a key player within the European Union. The course surveys recent Italian history and analyzes Italian politics, economy, institutions and culture.

*Note:* Conducted in English.

### **[Italian 196. The Post-War Novel]**

Catalog Number: 7018

*Lino Pertile*

*Half course (spring term). Hours to be arranged.*

Aims at providing a critical understanding of some major novels published in Italy since 1945. Authors considered include Cesare Pavese, Italo Calvino, Giuseppe Tomasi di Lampedusa, Leonardo Sciascia, Dacia Maraini. Focus on changing relationship between writer and society in past 60 years of Italian history.

*Note:* Expected to be given in 2006–07.

### ***Cross-listed Courses***

### **Linguistics 110. Introduction to Linguistics**

***Primarily for Graduates***

### **Italian 205. Italian Theory and Literary Criticism**

Catalog Number: 1236

*Giuliana Minghelli*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Moving from Francesco De Sanctis's *Storia della letteratura italiana*, this course pursues the unfolding of Italian critical thought and reflections on art and culture from Croce to Gramsci, and on to Eco and postmodernity.

*Note:* Conducted in Italian.

### **[Italian 220. Poesia del '200]**

Catalog Number: 6181

*Lino Pertile*

*Half course (spring term). Hours to be arranged.*

Explores the riches and variety of forms, styles, and themes of Italian poetry before Dante from the Sicilian school to the Sweet New Style. The seminar is devoted mainly to reading and



discussion of the most important texts of the period.

*Note:* Expected to be given in 2007–08. Conducted in Italian.

### **Italian 230. Petrarca and the Divided Self**

Catalog Number: 5548

*Lino Pertile*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Petrarch's vernacular poetry in the cultural context of Trecento Italy. Particular reference to Dante and the *dolce stil nuovo*. Stylistic and linguistic features of Petrarch's *Rime* analyzed in depth while philosophical aspects are related to Petrarch's Latin works, especially the *Secretum*.  
*Note:* Conducted in Italian.

### **[Italian 235. Boccaccio and the Birth of Novella]**

Catalog Number: 6488

*Lino Pertile*

*Half course (fall term). Hours to be arranged.*

Boccaccio's writings from the early Neapolitan works to the Decameron, with special attention to Boccaccio's narrative poetics and techniques.

*Note:* Expected to be given in 2006–07.

### **Italian 250. Decadent Italy**

Catalog Number: 1235

*Francesco Erspamer*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Readings in turn-of-the-century Italian literature, from the scapigliati, Verga, and D'Annunzio, to Fogazzaro, Grazia Deledda, Pirandello. This course analyzes the complex process of self-fashioning and modernization that Italy went through between its unification and the advent of fascism.

*Note:* Conducted in Italian.

### **Italian 260. Up to Speed: Italian Fiction and Cinema, 1990–2005**

Catalog Number: 1335

*Francesco Erspamer*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

The transformation of Italian society and culture through the narratives of the best Italian novelists and directors of today.

*Note:* Conducted in Italian.

### **[Italian 262. Time: Rhetoric and Ideology of a Cultural Concept]**

Catalog Number: 3847

*Francesco Erspamer*

*Half course (fall term). Hours to be arranged.*

Studies the development of the concept and metaphor of Time through Italian Literary canon, from Vasari and Galileo to Vico and Leopardi, from Pirandello and the Futurists to contemporary writers such as Carlo Levi, Giuseppe Tomasi di Lampedusa, Italo Calvino, and



Elena Ferrante.

*Note:* Expected to be given in 2006–07. Conducted in Italian.

**[Italian 288r. Italian Literature Seminar]**

Catalog Number: 0613

*Lino Pertile*

*Half course (fall term). Hours to be arranged.*

Topic for 2006-07: Foscolo and Leopardi.

*Note:* Expected to be given in 2006–07. Conducted in Italian.

***Graduate Courses of Reading and Research***

See Note to Graduate Courses of Reading and Research in French.

**\*Italian 320. Italian Literature: Supervised Reading and Research**

Catalog Number: 4834

*Francesco Erspamer 5074, Franco Fido 2446 (on leave fall term), and Lino Pertile 3416*

**\*Italian 330. Direction of Doctoral Dissertations**

Catalog Number: 3679

*Francesco Erspamer 5074, Franco Fido 2446 (on leave fall term), and Lino Pertile 3416*

***Latin American Studies***

***Primarily for Undergraduates***

**[Latin American Studies 70. Introduction to Latin American Studies](#)**

Catalog Number: 3379

*José Antonio Mazzotti*

*Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*

Why is Latin America poor and sometimes politically unstable? What about its cultural and human richness? What is its enormous potential for the future? To address these questions, we focus on readings, films and music from the different Latin American regions. We also concentrate on the diversity, coexistence, and divergence of ethnic traditions within national spaces. Through interdisciplinary analysis, students are introduced to the complexity of Latin American societies, their urgent problems, and fascinating cultures.

*Note:* Conducted in Spanish, with some readings, lectures, and discussions in English.

**[Latin American Studies 90b. Dominican-American Writers: Hispanic Caribbean Otherness in US Literature](#)**

Catalog Number: 0107

*Silvio Torres-Saillant (Syracuse University)*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Examines the difficult location of Dominican-American writers at the intersection of cultural otherness and the quest to belong within the protective contours of US citizenship. Will read the



works of Julia Alvarez, Annecy Baez, Josefina Baez, Alan Cambeira, Angie Cruz, Junot Diaz, Rhina Espaillat, Loida Maritza Perez, and Nelly Rosario.

*Note:* Conducted in English. Recommended for students in English and African and African-American Studies.

### **Latin American Studies 98. Tutorial—Junior Year**

Catalog Number: 1224

*Luis M. Girón Negrón and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Latin American Studies 98 is required of all honors concentrators in their junior year.

### **Latin American Studies 99. Tutorial—Senior Year**

Catalog Number: 7959

*Luis M. Girón Negrón and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Weekly individual instruction for honors seniors writing a thesis.

*Note:* Successful completion of one term of Latin American Studies 99 is required of all honors concentrators. To enroll, see the Undergraduate Adviser in Latin American Studies.

### ***Cross-listed Courses***

#### ***For Undergraduates and Graduates***

### **[Latin American Studies 110. Dictatorship/Postdictatorship: Memory, Media, and Market Culture]**

Catalog Number: 2642

*Luis E. Cárcamo-Huechante*

*Half course (spring term). Hours to be arranged.*

Analyzes and discusses the ways in which questions of violence, memory, history and (re)presentation have worked in and about the periods of dictatorship in Chile (1973–1990), Argentina (1976–1983), and Uruguay (1973–1985). We will scrutinize literary works, *testimonios*, political journalism, historical documents, and films, along with theoretical texts.

*Note:* Expected to be given in 2007–08. Conducted in English.

*Prerequisite:* Reading ability in Spanish.

### **[Latin American Studies 121. Revoluciones: Cultural Views]**

Catalog Number: 1950

*Luis E. Cárcamo-Huechante*

*Half course (fall term). Hours to be arranged.*

How does the domain of art and culture engage in, or counterpoint with, historical processes of change? This question will guide our critical examination of the cultural developments related with the experience of three national revolutions in Latin America: the Mexican Revolution, the 1944 Revolution of Guatemala, and the 1952 national Revolution of Bolivia. Literary production, pictorial and audio visual arts, political history, and cultural policy discussions will be included.



*Note:* Expected to be given in 2007–08. Conducted in English.

*Prerequisite:* Advanced reading ability in Spanish.

## **Portuguese**

Placement: The term “placement score” or “placement test” below and in the various course descriptions refers to the Portuguese placement test given during Freshman Week for freshmen, and usually on Registration Day for returning students.

### ***Primarily for Undergraduates***

#### **Portuguese A. Beginning Portuguese**

Catalog Number: 7130

*Clémence Jouët-Pastré and staff*

*Full course (indivisible). M., W., F., at 12. EXAM GROUP: 5*

Designed to introduce the student with little or no knowledge of the language to the Portuguese-speaking world. Teaches fundamental communication skills—understanding, speaking, reading, and writing—and, at the same time, provides exposure to the culture and civilization of Brazil and Portugal through media broadcasts, literature readings, films, music, and videotapes. By the end of the course, students should be able to communicate easily with native speakers as well as be acquainted with basic elements of Luso-Brazilian culture.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese A website.

#### **Portuguese Ac. Beginning Portuguese for Spanish Speakers**

Catalog Number: 0430

*Clémence Jouët-Pastré and staff*

*Half course (fall term). M., W., F., at 12 or 1. EXAM GROUP: 5, 6*

An introductory language course designed for Spanish-English bilinguals. Along with the fundamental communication skills—understanding, speaking, reading and writing—the course will focus on those features of Portuguese which are most difficult for Spanish speakers: pronunciation, idioms and grammatical structures particular to Portuguese. Students will be introduced to the cultures of the Portuguese-speaking world through readings and authentic materials, including films, music, and videotapes.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Open to Spanish-English bilinguals. Not open to auditors. Section on-line on the Portuguese Ac website.

*Prerequisite:* 750 on the Spanish SAT II or the Harvard Placement test; 5 on the Spanish AP test; or a 40s level Spanish course.

#### **Portuguese Ad. Beginning Portuguese for Spanish Speakers**

Catalog Number: 1315

*Clémence Jouët-Pastré and staff*

*Half course (spring term). M., W., F., at 12 or 1. EXAM GROUP: 5*

A continuation of Portuguese Ac. By the end of the second term, students should be able to



communicate easily with native speakers and be acquainted with basic elements of Luso-Brazilian culture.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese Ad website.

*Prerequisite:* Portuguese Ac.

### **Portuguese Ba. Introduction to Portuguese**

Catalog Number: 0514

*Clémence Jouët-Pastré and staff*

*Half course (spring term). Section I: M., W., 3–5; Section II: Tu., Th., 3–5. EXAM GROUP: 8, 9*

A basic introductory course for students who can devote only one term to the study of Portuguese. Teaches fundamental communication skills—understanding, speaking, reading and writing—but does not offer a complete study of grammar.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese Ba website.

### **Portuguese Ca. Intermediate Portuguese I**

Catalog Number: 7692

*Clémence Jouët-Pastré and staff*

*Half course (fall term). Section 1: M., W., 2–3:30; Section II: Tu., Th., 11:30–1. EXAM GROUP: 7, 8*

A beginning intermediate course for students interested in expanding and strengthening their basic Portuguese linguistic skills. Reading, writing, and conversational competency is emphasized through the study of the Luso-African-Brazilian cultures. The course aims to promote cross-cultural understanding through the use of authentic materials such as literary texts, multimedia, film, music, and videotapes.

*Note:* Conducted in Portuguese. Recommended for students who wish to improve their ability to speak and write Portuguese. May not be taken Pass/Fail. Section on-line on the Portuguese Ca website.

*Prerequisite:* Portuguese A or permission of course head.

### **Portuguese Cb. Intermediate Portuguese II**

Catalog Number: 2799

*Clémence Jouët-Pastré and staff*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Aims to further develop the four communicative skills while expanding students' background knowledge of the history and cultures of the Portuguese-speaking world. Portuguese Cb covers the important grammar points not studied in Portuguese Ca.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail. Section on-line on the Portuguese Cb website.

*Prerequisite:* Portuguese Ca or permission of course head.

### **Portuguese 37. Brasil hoje: Contemporary Brazilian Culture through Media**

Catalog Number: 5024

*Clémence Jouët-Pastré*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*



Students engage in systematic grammar review, along with practice in writing and vocabulary enrichment, while examining contemporary Brazil as presented in the Portuguese-language press, television, literature, and film. They analyze the ways Brazilians and non-Brazilians construct different and conflicting images of Brazil and “Brazilness.” Issues of race relations, national identity, ethnicity, and gender addressed. Discussions based on historical and literary texts, advertisements, films, videotapes of Brazilian television, and current issues of newspapers and magazines.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students.

*Prerequisite:* Portuguese Ca/Cb or permission of course head.

### **Portuguese 44 (formerly Portuguese 38). Images of Brazil: Contemporary Brazilian Cinema**

Catalog Number: 8893

*Clémence Jouët-Pastré*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Examines major Brazilian films in their historical, political, and social context. Class discussion also focuses on documentaries, reviews, and critical articles. In-depth textual and grammatical analysis, vocabulary building, reflections on the similarities and differences of the oral and written Portuguese will lead students to achieve a high level of competency.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Portuguese 44 website.

*Prerequisite:* Portuguese Ca/Cb or permission of course head.

### **Portuguese 60 (formerly Portuguese 40). Portuguese and the Community**

Catalog Number: 3322

*Clémence Jouët-Pastré and staff.*

*Half course (spring term). W., Th., 3–4:30 plus four hours of service per week. EXAM GROUP: 8, 9, 17, 18*

An advanced language course examining the Luso-African-Brazilian experience in the US. Promotes community engagement as a vehicle for greater linguistic fluency and cultural understanding. Students will be placed with Boston-area community organizations and agencies. Class work focuses on readings and films by and about Luis-African-Brazilians and specific uses of Portuguese language from these communities. Authors include D. Macedo, Braga Martes, Margolis, Sales, Albues, and Villas Boas.

*Note:* Section on-line on the Portuguese 60 website.

*Prerequisite:* Portuguese 37, 38 or a score of 100 on the Harvard Placement Test.

### **\*Portuguese 91r. Supervised Reading and Research**

Catalog Number: 5589

*Clémence Jouët-Pastré and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced reading in topics not covered in regular courses.

*Note:* Limited to juniors and seniors.





**\*Portuguese 97. Tutorial — Sophomore Year**

Catalog Number: 5769

*Clémence Jouët-Pastré and members of the Department and Tutorial Board*

*Half course (spring term). W., 1–3.*

Successful completion of one term of Portuguese 97 is required of all concentrators in their sophomore year.

**\*Portuguese 98. Tutorial — Junior Year**

Catalog Number: 8667

*Clémence Jouët-Pastré and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Successful completion of one term of Portuguese 98r is required of all honors concentrators. To enroll see course head.

**\*Portuguese 99. Tutorial — Senior Year**

Catalog Number: 8753

*Clémence Jouët-Pastré and members of the Department and Tutorial Board*

*Full course. Hours to be arranged.*

For honors seniors writing a thesis. Successful completion of one term of Portuguese 99 is required of all honors concentrators. To enroll, see course head.

***For Undergraduates and Graduates***

**[Portuguese 115. Popular Tradition as the Muse of Modern Brazilian Culture]**

Catalog Number: 5279

*Nicolau Sevcenko (Universidade de São Paulo)*

*Half course (spring term). Hours to be arranged.*

Brazilian oral popular culture is a complex sediment, composed of Iberian, African and Native American elements, condensed by the lower strata of the population, during centuries of isolation in the backlands. It was attacked by modernizing elites as an anachronism, a barrier of illiteracy and superstition hindering Brazilian development. Some modern artists and writers, however, took it as an inspirational resource to confront aesthetic dogmatism. We will study/compare 20th century writers, poets and visual artists.

*Note:* Expected to be given in 2007–08. Conducted in Portuguese or English, to be decided jointly by professor and students.

**Portuguese 118 (formerly Portuguese 219ar). Major Poems of the Portuguese Language I**

Catalog Number: 2192

*Joaquim-Francisco Coelho*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

A study of major lyrical texts of the Portuguese language, from medieval times to the present, with emphasis on poetry written in Portugal and Brazil after 1900. The approach is comparative, focusing on the formal aspects of poetry (meter, rhyme, rhythm).

*Note:* Conducted in Portuguese.



**Portuguese 119 (formerly Portuguese 219br). Major Poems of the Portuguese Language II**

Catalog Number: 3242

*Joaquim-Francisco Coelho*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

A continuation of Portuguese 118.

*Note:* Conducted in Portuguese.

**[Portuguese 121a. Introduction to the Literature of Brazil I]**

Catalog Number: 5164

*Joaquim-Francisco Coelho*

*Half course (fall term). Hours to be arranged.*

A survey of the development of Brazilian literature from colonial times to the present. Emphasis on major authors (Gregório de Matos, Gonçalves Dias, Machado de Assis, Drummond de Andrade, Clarisse Lispector, Cecília Meireles, Guimarães Rosa, Ferreira Gullar). Special attention paid to the social forces that continue to shape literary thought in Brazil.

*Note:* Expected to be given in 2007–08. Conducted in Portuguese and English.

*Prerequisite:* Excellent reading knowledge of Portuguese.

**[Portuguese 121b. Introduction to the Literature of Brazil II]**

Catalog Number: 4363

*Joaquim-Francisco Coelho*

*Half course (spring term). Hours to be arranged.*

A continuation of Portuguese 121a.

*Note:* Expected to be given in 2007–08. Conducted in Portuguese and English.

*Prerequisite:* Excellent reading knowledge of Portuguese.

**[Portuguese 122a. Introduction to the Literature of Portugal I]**

Catalog Number: 2943

*Joaquim-Francisco Coelho*

*Half course (fall term). Hours to be arranged.*

The main currents of Portuguese literature. Emphasis on major authors, literary schools, and socio-aesthetic ideas from Gil Vicente and Camões to Eça de Queiroz, Fernando Pessoa, Jorge de Sena and José Saramago. Aims to teach students to read Portuguese texts and to think and write about them in a broad Western European context.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Excellent reading knowledge of Portuguese.

**[Portuguese 122b. Introduction to the Literature of Portugal II]**

Catalog Number: 3654

*Joaquim-Francisco Coelho*

*Half course (spring term). Hours to be arranged.*

A continuation of Portuguese 122a.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Excellent reading knowledge of Portuguese.



**Portuguese 133. The History of the Short Story in Portugal and Brazil**

Catalog Number: 1381

*Joaquim-Francisco Coelho*

*Half course (spring term). Tu., 1:30–3:30. EXAM GROUP: 15, 16, 17*

A history of the shapes and intentions of the short story in the literatures of Portugal and Brazil, from early medieval tales to the present. Emphasis given to modern narratives. Authors include: Eça de Queirós, Machado de Assis, Mário de Andrade, Clarice Lispector, Almada Negreiros, and Jorge de Sena.

**Portuguese 134. Expanding Art**

Catalog Number: 1412

*Nicolau Sevcenko (Universidade de São Paulo)*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Explores the many interfaces between literature, music and the visual arts in modern Brazilian culture.

*Note:* Conducted in Portuguese or English, to be decided jointly by professor and students.

**[Portuguese 144. Waves of Change]**

Catalog Number: 1419

*Nicolau Sevcenko (Universidade de São Paulo)*

*Half course (spring term). Hours to be arranged.*

Studies Antropofagia, Sertanismo, and Tropicalia as aesthetic movements that shaped modern Brazilian culture.

*Note:* Expected to be given in 2006–07. Conducted in Portuguese or English, to be decided jointly by professor and students.

**Portuguese 147. The Lyre in the Streets**

Catalog Number: 1422

*Nicolau Sevcenko (Universidade de São Paulo)*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Will study vernacular Streams in Brazilian poetry, from G. de Matos to Ana C. Cesar.

*Note:* Conducted in Portuguese or English, to be decided jointly by professor and students.

***Cross-listed courses***

**Linguistics 110. Introduction to Linguistics**

***Primarily for Graduates***

**Portuguese 222. Introduction to Camões**

Catalog Number: 2995

*Joaquim-Francisco Coelho*

*Half course (fall term). Tu., 1:30–3:30. EXAM GROUP: 15, 16, 17*

Study of the epic and lyric poetry of Camões in the context of the European Renaissance. Special attention given to the love sonnets and to the lyrical passages of *The Lusiads*.

*Note:* Taught in Portuguese.



**[Portuguese 227. Fernando Pessoa]**

Catalog Number: 7375

*Joaquim-Francisco Coelho*

*Half course (fall term). Hours to be arranged.*

Study of the works of Portugal's most distinguished literary figure of the 20th century as poet, critic, and prose writer, as well as his relation to the corpus of Portuguese literature.

*Note:* Expected to be given in 2006–07. Conducted in Portuguese and English.

**[Portuguese 231. Literature and the Plea for Compassionate Modernization in 20th-Century Brazil]**

Catalog Number: 2102

*Nicolau Sevcenko (Universidade de São Paulo)*

*Half course (spring term). Hours to be arranged.*

The Republican regime's aim was the modernization of Brazil. It was conceived however as an authoritarian and discriminatory process. Writers of diverse social/ethnic backgrounds fought against it. Readings from the first Republican generation of intellectual/writers.

*Note:* Expected to be given in 2007–08. Conducted in Portuguese or English, to be decided jointly by professor and students.

**[Portuguese 260. The Devil at the Crossroads]**

Catalog Number: 1463

*Nicolau Sevcenko (Universidade de São Paulo)*

*Half course (spring term). Hours to be arranged.*

Focuses on revolutionary changes in Brazilian culture in the 1950s and 1960s.

*Note:* Expected to be given in 2006–07. Conducted in Portuguese or English, to be decided jointly by professor and students.

***Graduate Courses of Reading and Research***

See Note to Graduate Courses of Reading and Research in French.

**\*Portuguese 320. Literature of Portugal: Supervised Reading and Research**

Catalog Number: 6733

*Nicolau Sevcenko (Universidade de São Paulo) 5229 (spring term only) and Joaquim-Francisco Coelho 7715*

**\*Portuguese 321. Literature of Brazil: Supervised Reading and Research**

Catalog Number: 5933

*Joaquim-Francisco Coelho 7715 and Nicolau Sevcenko (Universidade de São Paulo) 5229 (spring term only)*

**\*Portuguese 330. Direction of Doctoral Dissertations**

Catalog Number: 4072

*Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880 (on leave 2005-06), Luis Fernández-Cifuentes 2091 (on leave spring term), Mary M. Gaylord 2632, Nicolau Sevcenko (Universidade de São Paulo) 5229 (spring term only), and Doris Sommer 2744*



## ***Romance Languages***

See also courses in Linguistics.

### ***Primarily for Graduates***

#### **Romance Languages 200. Second Language Teaching and Learning (formerly Theory and Practice of Language Teaching)**

Catalog Number: 2825

*Kimberlee Campbell*

*Half course (fall term). F., 3–5. EXAM GROUP: 8, 9*

An overview of second-language teaching and learning. Students are encouraged to think critically about theoretical models, learning objectives, materials design, and classroom practice. Students will evaluate existing textbooks as well as design their own materials.

*Note:* Special practicum meets F., at 2 for graduate students and teaching assistants from the Department of Romance Languages and Literatures only. Offered jointly with the Graduate School of Education as H-750. Open to qualified undergraduates.

### ***Graduate Courses of Reading and Research***

#### **\*Romance Languages 300. Seminar for Dissertation Writing in the Romance Literatures**

Catalog Number: 9758

*Mary M. Gaylord 2632*

*Half course (fall term; repeated spring term). Bi-weekly meetings: Th., 4-6. EXAM GROUP: 18*

Addresses prospectus preparation; scope, chapter organization, audience; politics and ethics of critical writing (acknowledgement, quotation, controversy); publishing (conference/job talks, articles, book). Biweekly meetings use readings, discussion, workshopping, guest lectures to focus on practical concerns.

*Prerequisite:* Completion or imminent completion of PhD general examinations.

## ***Romance Studies***

### ***Primarily for Undergraduates***

#### **Romance Studies 79. Romance Languages in Comparative Perspective**

Catalog Number: 8713

*Elvira G. DiFabio, Virginie Greene, Clémence Jouët-Pastré, and members of the Department*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Highlights of the similarities and differences among the Romance languages, beginning with an overview of the historical development of the Romance languages from Latin, and moving on to the comparison of linguistic identifiers of French, Italian, Portuguese, and Spanish; may also include a discussion of Catalan. Topics will cover comparative phonology, morphology, and syntax, as well as some cross-cultural experiences such as immigration and translation.

*Note:* Conducted in English; texts in original and in translation. May not be taken by RLL graduate students to fulfill the history of the language requirement.



*Prerequisite:* Advanced proficiency in one of the Romance Languages, or permission of the faculty committee.

**Romance Studies 82. The Middle Ages at the Movies**

Catalog Number: 1479

*Kimberlee Campbell*

*Half course (spring term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

Explores major themes of the Middle Ages, from war to the role of women in society, comparing medieval texts to modern cinematographic versions of the Cid, the story of Joan of Arc, and the King Arthur's court, among others. Students will examine medieval source materials as well as modern, developing a critical sense of the social uses for history, and the ways in which these may be articulated through film.

*Note:* Conducted in English. Students may elect to do course assignments in Spanish or French.

**\*Romance Studies 91r. Supervised Reading and Research**

Catalog Number: 8210

*Virginie Greene and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial supervision of research on subjects not treated in regular courses.

**\*Romance Studies 97. Tutorial—Sophomore Year**

Catalog Number: 1994

*Virginie Greene and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Romance Studies 97 is required of all concentrators in their sophomore year.

**\*Romance Studies 98. Tutorial—Junior Year**

Catalog Number: 5203

*Virginie Greene and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Romance Studies 98 is required of all honors concentrators in their junior year.

**\*Romance Studies 99. Tutorial—Senior Year**

Catalog Number: 1067

*Virginie Greene and members of the Department and Tutorial Board*

*Full course. Hours to be arranged.*

*Note:* Weekly individual instruction. Successful completion of one term of Romance Studies 99 is required of all honors concentrators. To enroll, see the Undergraduate Adviser in Romance Studies.

***For Undergraduates and Graduates***

**[Romance Studies 133. How to Behave in Romance]**

Catalog Number: 2558



*Mary M. Gaylord and Alexia E. Duc*

*Half course (fall term). Hours to be arranged.*

Romance cultures of the early modern period share a common interest in civility. The climate of intense change that marked 16th- and 17th-century Europe produced a flurry of treatises on gender and class roles, manuals of behavior geared to new situations and how-to books for social climbers. Looking for debts to philosophy and religion as well as for the influence of changing contexts, we read Erasmus, Castiglione, Vives, Luis de León, Gracián, Faret, Courtin, Vaumorières, Bellegarde, and others.

*Note:* Expected to be given in 2006–07. Conducted in English.

### **[Romance Studies 171. The Spanish Civil War from Both Sides of the Border]**

Catalog Number: 5340

*Bradley S. Epps and Susan R. Suleiman*

*Half course (spring term). Hours to be arranged.*

The Spanish Civil War (1936-39) was not just a national but an international event, which mobilized the passions of major artists and writers as well as the public. We examine the impact and the representations of that war and its aftermath in France and Spain, with some reference to England and the US, from the 1930s to the present.

*Note:* Expected to be given in 2006–07. Conducted in English.

*Prerequisite:* Good reading knowledge of either French or Spanish.

### ***Primarily for Graduates***

### **Romance Studies 201. Approaches to Theory**

Catalog Number: 0934

*Doris Sommer and Members of the Department*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Major topics in literary theory as they relate to interpretation of romance literatures. Weekly seminars feature specialists in the Department who develop: philology, formalism, structuralism, post-structuralism, feminism, deconstruction, psychoanalysis, Marxism, cultural studies, post-colonial studies, queerness.

*Note:* Conducted in English.

### ***Spanish***

All students who have taken Spanish in secondary school are required to take the Placement Test given during Freshman Week for freshmen and usually on Registration Day for returning students.

A grade of 5 in the College Board Advanced Placement Examinations in Spanish allows you to take Spanish courses numbered 40 to 90 or, if recommended, 100-level courses. All language courses are conducted in Spanish and include weekly writing assignments. For details, see the pamphlet *Advanced Standing at Harvard College* or apply to the Director of the Program of Advanced Standing.





### ***Primarily for Undergraduates***

#### **Spanish A. Beginning Spanish**

Catalog Number: 4684

*Johanna Damgaard Liander and staff*

*Full course (indivisible). M. through F., sections at 9, 10, 11, 1, or 2. EXAM GROUP: 10*

A complete basic course for students with little or no knowledge of Spanish. Initial emphasis on speaking, and, in the spring term, more emphasis on reading and writing, introducing Hispanic culture through texts by García Lorca, Neruda, and others; and use of computer, video, and film materials. After Spanish A, students should be able to engage in everyday conversation with native speakers, and read straightforward texts, both fiction and non-fiction, with relative ease. *Note:* Conducted in Spanish. May not be taken by students who have had more than 3 years of Spanish in high school. May not be taken Pass/Fail. Students whose placement score does not entitle them to enter a more advanced course are assigned to Spanish A. Section on-line on the Spanish A website.

#### **Spanish Ax. Reading Spanish**

Catalog Number: 5318

*Ernesto E. Guerra*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

For students (both undergraduate and graduate) with little or no knowledge of Spanish. Aims at the rapid development of reading skills as a tool for research.

*Note:* Not open to auditors. May not be used to fulfill the language requirement. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Conducted in English. Section on-line on the Spanish Ax website.

#### **\*Spanish Bab. Intensive Beginning Spanish: Special Course**

Catalog Number: 5577 Enrollment: Limited to 15 students per section.

*José Ignacio Alvarez-Fernández and staff*

*Full course (fall term; repeated spring term). Section I: M. through F., at 9 and Tu., Th., at 10; Section II: M. through F., at 11 and Tu., Th., at 12. EXAM GROUP: 2, 4, 11*

For students with no previous formal training in Spanish but with competence in at least one foreign language. Emphasis on communication skills. Language instruction supplemented by cultural and literary readings, film, and computer materials.

*Note:* May not be used to fulfill the language requirement. May not be taken Pass/Fail. Interested students should contact Dr. Alvarez-Fernández before registration for fall term and before fall examination period for spring term.

#### **Spanish Ca. Intermediate Spanish I**

Catalog Number: 5914

*Nina C. de W. Ingraio and staff*

*Half course (fall term). Sections M., W., F., at 9, 10, 11, 12, and 1. EXAM GROUP: 2*

A beginning intermediate course emphasizing listening, speaking, reading and writing, and including a review of grammar. Selected readings and related activities respond to a wide variety of interests: current events and issues, as well as short stories by well-known Spanish and Latin American authors. After Spanish Ca students should be able to communicate in Spanish with



native speakers.

*Note:* Conducted in Spanish. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish Ca website.

*Prerequisite:* Spanish A, 450-599 on the SAT II test or on the Harvard Placement Test, 3 years of Spanish in high school, or permission of course head.

### **Spanish Cb. Intermediate Spanish II**

Catalog Number: 6874

*Nina C. de W. Ingrao and staff*

*Half course (spring term). Sections M., W., F., at 9, 10, 11, 12, and 1. EXAM GROUP: 10*

Emphasis on oral communication, with continued practice in reading and writing. Class discussions focus on Hispanic culture, art, and literature. Special listening materials used for insight into daily life in Spanish-speaking areas. After the Ca-Cb sequence, 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.

*Note:* Conducted in Spanish. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish Cb website.

*Prerequisite:* Placement score of 550-599, Spanish Ca or permission of course head.

### **\*Spanish Dab. Intensive Intermediate Spanish: Special Course**

Catalog Number: 4553

*José Ignacio Alvarez-Fernández and staff*

*Full course (spring term). M. through F., at 11 and a weekly section to be arranged. EXAM GROUP: 4, 13*

A complete second-year course in one term. Geared toward motivated students with an elementary knowledge of Spanish who want to accelerate their progress in the language. Consolidates and expands oral comprehension, speaking, reading, and writing. Class materials include literature, film, and media.

*Note:* Conducted entirely in Spanish. May not be used to fulfill the language requirement. May not be taken Pass/Fail.

*Prerequisite:* Spanish A, Spanish Bab, 450-599 on the SAT II test or the Harvard Placement test, or permission of course head.

### **[Spanish 27. Oral Expression I: El español hablado]**

Catalog Number: 5358

*Nina C. de W. Ingrao and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Develops oral fluency in Spanish, while introducing students to attitudes, values, and cultural patterns of contemporary life in Spain and Latin America. Students have continual opportunities to act out situations encountered in a Spanish-speaking environment. Although oral proficiency is not a prerequisite, course is best suited to students with a solid foundation in Spanish.

*Note:* Expected to be given in 2007–08. Conducted in Spanish. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. May not be taken for credit by students who have passed Spanish 25. Section on-line on the Spanish 27 website.



*Prerequisite:* Spanish Cb, 600-659 on the SAT II test or the Harvard Placement test, or permission of course head.

### **Spanish 30. Oral Expression II: Temas de actualidad**

Catalog Number: 0479

*Nina C. de W. Ingrao and staff*

*Half course (fall term; repeated spring term). M., W., F. at 11, 12, and 1. EXAM GROUP: 4*

Intended for students who have learned to handle everyday situations. Prepares students for interacting on a more sophisticated level in a work or study setting. Class discussions and activities as well as the written assignments are based on topics of current interest researched by the students, literary selections, films, and the press. Review of selected grammar topics.

*Note:* Conducted in Spanish. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 30s. Section on-line on the Spanish 30 website.

*Prerequisite:* 600-719 on the SAT II test or the Harvard Placement test, Spanish Cb, 25, or 27, or permission of course head.

### **Spanish 35. Upper-Level Spanish I: Cuatro países latinoamericanos**

Catalog Number: 7127

*Adriana Gutiérrez and staff*

*Half course (fall term). M., W., F., at 10, 11, and 1. EXAM GROUP: 3, 4, 6*

Designed to expand speaking and writing skills in Spanish, the course introduces students to the cultural expression—in literature, film, and journalism—of four Latin American countries each representing a unique perspective: Argentina, Peru, Colombia, and Mexico. In addition to in-class discussions, course work involves a comprehensive grammar review and practice in writing.

*Note:* Conducted entirely in Spanish. May not be taken Pass/Fail, but may be taken Sat/Unsat by students at GSAS. Students may take no more than two courses numbered in the 30s. Section on-line on the Spanish 35 website.

*Prerequisite:* Spanish Cb, 25, or 27, 600-719 on the SAT II test or the Harvard Placement test or permission of course head.

### **Spanish 36. Upper-Level Spanish II: Cultura urbana actual**

Catalog Number: 7095

*Adriana Gutiérrez and staff*

*Half course (spring term). M., W., F., at 10, 11, and 1. EXAM GROUP: 3, 4, 6*

Consolidates and expands fluency, accuracy and stylistic range in Spanish through an examination of diverse literary and cinematographic works which depict contemporary life in the large cities of Spain, Cuba, Puerto Rico, and Mexico. In addition to in-class discussions, course work involves a comprehensive grammar review and practice in writing.

*Note:* Conducted entirely in Spanish. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 30s. Section on-line on the Spanish 36 website.

*Prerequisite:* Spanish Cb, 25 or 27, 600-719 on the SAT II test or the Harvard Placement test, or permission of course head.



### **Spanish 44. Spanish Culture Through Film**

Catalog Number: 5058 Enrollment: Limited to 35.

*Johanna Damgaard Liander*

*Half course (fall term). M., W., F., at 10 or 11. EXAM GROUP: 3, 4*

An advanced language and culture class that develops competence through a grammar review and the study of major films by Luis Buñuel, Carlos Saura, Pedro Almodóvar, and others in historical, political, and social context. Course materials also include interviews, reviews, screenplays, and critical articles.

*Note:* This course does not section on-line. Please attend the first class to be considered for admission. Conducted in Spanish. May not be taken Pass/Fail. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* Spanish 35 or 36; 720 on the SAT II test or the Harvard Placement test; or permission of course head.

### **Spanish 48. Perspectives on Mexico**

Catalog Number: 5426 Enrollment: Limited to 35.

*Johanna Damgaard Liander*

*Half course (spring term). M., W., F., at 10 or 11. EXAM GROUP: 3, 4*

An advanced language and culture class focusing on 20th-century Mexico as seen through the works of several Mexican women (Antonieta Rivas Mercado, Frida Kahlo, Rosario Castellanos, Elena Poniatowska, María Novaro, and others). Class materials include interviews, selections from the press, films, and paintings, as well as literary and historical readings. Frequent written and oral assignments, and a thorough review of grammar.

*Note:* This course does not section on-line. Please attend the first day of class to be considered for admission. Conducted in Spanish. May not be taken pass/fail. Not open to native speakers of Spanish. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* Spanish 35 or 36; 720 on the SAT II test or the Harvard Placement test; or permission of course head.

### **Spanish 49a. Life in Buenos Aires**

Catalog Number: 7890 Enrollment: Limited to 15.

*Johanna Damgaard Liander*

*Half course (spring term). M., W., F., at 10 or 11. EXAM GROUP: 4*

An advanced language and culture class that will develop advanced language competency through the study of contemporary life in Buenos Aires. We will examine the Argentine capital, its identity and its mystique, through history, folklore, gastronomy, film, music, art, and literature. Frequent written and oral assignments, and a thorough review of grammar.

*Note:* Conducted in Spanish. This course does not section on-line. Please attend the first day of class to be considered for admission. May not be taken pass/fail. Not open to native speakers of Spanish. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* Spanish 35 or 36; 720 on the SAT II test; the Harvard Placement test; or permission of course head.

### **Spanish 49b. Arte y nación: la esfera pública latinoamericana**

Catalog Number: 4936

*Adriana Gutiérrez*



*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Artists and intellectuals can use language to change society. To appreciate the agency of linguistic arts, we will read literature and view films that helped to establish political projects, including nation-building, throughout Latin America. At the same time, students develop their own abilities to use Spanish effectively through a sequence of grammar reviews and weekly writing assignments.

*Note:* Conducted in Spanish. Students may take no more than two courses numbered in the 40s.

*Prerequisite:* Spanish 35 or 36; 720 on the SAT II test; the Harvard Placement test; or permission of course head.

### **Spanish 50 (formerly Spanish 43). Creative Writing in Spanish**

Catalog Number: 6794

*Ernesto E. Guerra*

*Half course (spring term). M., W., F., at 10 or 11. EXAM GROUP: 3, 4*

An advanced language courses designed to strengthen and develop competence in written expression through creative writing. Offers an in-depth grammar review, and basic tools for reading and writing short fiction in Spanish. Readings include works by Horacio Quiroga, Jorge Luis Borges, Gabriel García Márquez and others.

*Note:* Conducted in Spanish. Recommended for concentrators and joint concentrators. Students may take no more than two courses numbered in the 50s. Section on-line on the Spanish 50 website.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50-level course in Spanish; or permission of course head.

### **Spanish 54. Advanced Oral Expression**

Catalog Number: 3964 Enrollment: Limited to 15.

*Ernesto E. Guerra*

*Half course (fall term). Tu., Th., 1:30–3; Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

An advanced language course designed to strengthen oral skills through discussion and representation of Spanish and Spanish-American plays. Intensive practice in listening comprehension, pronunciation, self-presentation, debating, negotiating, counseling, persuading, and expressing emotion will culminate in a class theatrical production.

*Note:* Conducted in Spanish. Recommended for concentrators and joint concentrators. Students may take no more than two courses numbered in the 50s. Section on-line on the Spanish 54 website.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

### **Spanish 55 (formerly Spanish 45). El español de los negocios**

Catalog Number: 3731

*José Ignacio Alvarez-Fernández and staff*

*Half course (fall term; repeated spring term). M., W., F., at 11 or 12. EXAM GROUP: 4*

An advanced language course that teaches the linguistic skills necessary for professional communication. Focus on the writing of formal letters and official documents. Systematic vocabulary building by thematic areas, and review of key grammatical points. Discussion of cultural patterns relating to business and society in Hispanic countries and in the US.



*Note:* Conducted in Spanish. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 50s Section on-line on the Spanish 55 website.

*Prerequisite:* Spanish 35, 36, 41 or 42; 720 on the SAT II test or the Harvard Placement test; or permission of course head.

### **Spanish 60 (formerly Spanish 40). Spanish and the Community**

Catalog Number: 8789 Enrollment: Limited to 12.

*Johanna Damgaard Liander and staff.*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30, and four hours of service a week. EXAM GROUP: 12, 13*

An advanced language course which examines the Latin American and Latino experience in the US, promoting community engagement as a vehicle for greater linguistic fluency and cultural understanding. Students will be placed with community organizations within the Boston area. Classwork focuses on readings and films by and about Latin Americans in the US and specific uses of Spanish in these communities. Authors include Sandra Cisneros, Ilán Stavans, and Alberto Fuguet.

*Note:* Interested students must apply in writing *before* registration (fall term) and before Winter Recess (spring term) to Dr. Liander.

*Prerequisite:* 750 on the Harvard placement test; a 40- or 50- level course in Spanish; or permission of course head.

### **\*Spanish 61. Spanish for Heritage Speakers**

Catalog Number: 1481

*Nina C. de W. Ingraio*

*Half course (fall term; repeated spring term). M., W., F., at 12. EXAM GROUP: 5*

Designed to enhance heritage students' knowledge of Spanish by providing them with ample opportunities to develop and improve language skills. Explores the common cultural thread among people from Spanish-speaking countries. Activities include interviews and discussions of Hispanic art, writings, film and press. Frequent written and oral assignments and a thorough review of grammar.

*Note:* Conducted in Spanish. May not be taken Pass/Fail.

### **Spanish 70a. Hispanic Literature: Spanish Literature from the Origins to 1700**

Catalog Number: 1587

*Luis M. Girón Negrón*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

Major works and critical approaches in the study of medieval and Golden Age literature. Works and authors include: *Cantar de mio Cid*, Alfonso X, Juan Ruiz, Juan Manuel, the Romancero, Jorge Manrique, *La Celestina*, *Lazarillo de Tormes*, Garcilaso de la Vega, San Juan de la Cruz, Cervantes, Quevedo, Calderón, Tirso.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

### **[Spanish 70c. Documenting Spanish Modernity: A Survey of Spanish Literature and Culture from 1700]**





Catalog Number: 7713

*Luis Fernández-Cifuentes*

*Half course (spring term). Hours to be arranged.*

From philosophical essays to newspaper articles, from romantic tragedy to turn-of-the-century films, from early autobiography to dirty realism, from academic landscape painting to comic strips, this course will present a provocatively diverse set of documents that will help understand Spain's equivocal and frequently contested Modernity.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50-level course in Spanish; or permission of course head.

**Spanish 71a. Demons, Pirates, and Saints: Survey on Colonial Spanish American Literature**

Catalog Number: 4319

*José Antonio Mazzotti*

*Half course (fall term). Tu., Th., at 12 and one hour to be arranged. EXAM GROUP: 14*

An introduction to the chronicles of discovery and conquest (Bernal Díaz, Las Casas, Cabeza de Vaca) and other colonial classics (Inca Garcilaso, Sor Juana, Miramontes, Acosta). The course also traces the links between colonial writing and some contemporary works of Latin American literature (Carpentier, Asturias), and gives room to the debate on long-standing cultural topics, such as la Malinche, the Virgin of Guadalupe, Santa Rosa de Lima, Lutheran piracy, and la Perricholi.

*Note:* Conducted in Spanish. Required for concentrators in Hispanic Literatures and Hispanic Studies (as an alternative to Spanish 71b), and mandatory for concentrators in Latin American Studies.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

**[Spanish 71b. From Modernism On: Survey of Late 19th- and 20th-Century Latin American Literature]**

Catalog Number: 6700

*Luis E. Cárcamo-Huechante*

*Half course (spring term). Hours to be arranged.*

Introduces students to Spanish-American literature from the end of the 19th to the late 20th century. Special emphasis placed on the use of key notions for literary analysis as well as for linking the literary text with broader cultural, economic, social, political and historical processes. Complementary support with grammar and language provided. Readings by Rubén Darío, José Martí, Delmira Agustini, Jorge Luis Borges, Gabriel García Márquez, José Lezama Lima, Alejandra Pizarnik, among others.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

**[Spanish 84. Poetry and Grammar; Language and the Making of Poems in Spanish]**

Catalog Number: 8578

*Mary M. Gaylord*





*Half course (spring term). Hours to be arranged.*

What are poems made of? Meter, versification, and diction are the raw materials considered most proper to poetry. Yet poets have long known that grammatical forms and syntax are indispensable building blocks of verse composition. Reading major poets—classical and modern, Spanish and Latin American—we will explore what a focus on grammar suggests about poetic craft and what focus on poems as grammatical structures reveals about the making of meaning in Spanish.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

### **[Spanish 90m. Imagining Latin Americas: Neruda, Asturias, and Paz.]**

Catalog Number: 8609

*Luis E. Cárcamo-Huechante*

*Half course (spring term). Hours to be arranged.*

Analyzes the work of three major twentieth-century writers: Pablo Neruda, Miguel Angel Asturias, Octavio Paz. Special emphasis on the modern dimension of their literary registers—poetry, novel, short story, and essay—as well as on the construction of the writer as a “public intellectual” and how their writings imagine the (Latin) American space.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

### **Spanish 90p. In the Beginning Were the Words: Colonial Latin American Literature**

Catalog Number: 9726

*Julio Marzán (Nassau Community College)*

*Half course (spring term). Tu., Th., 4–5:30. EXAM GROUP: 18*

Writing notarized the reality of a distantly conquered New World, and being the Old World’s mass medium, publicized glory, generated myths, and popularized epics—often blurring the line between documentation and inspired recollection. Thus begins Latin American literature, obsessed with narrative viewpoint, origin, myth, history as fiction, and vice versa.

*Note:* Readings, class discussion, and writing assignments in Spanish.

### **\*Spanish 91r. Supervised Reading and Research**

Catalog Number: 1586

*Johanna Damgaard Liander and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial supervision of research on subjects not treated in regular courses.

### **\*Spanish 97. Tutorial—Sophomore Year**

Catalog Number: 2315

*Luis Fernández-Cifuentes*

*Half course (fall term). Tu., Th., at 2.*

Theory in Praxis: Critical Controversies. Reading assignments will expose not only a variety of recent developments in literary criticism (as it has been practiced by prominent scholars, from Vygotsky to Barbara Johnson, on both prose and poetry) but also significant controversies that



have accompanied and stimulated such development (Trilling versus Vendler on Wordsworth, Jakobson versus Riffaterre on Baudelaire, Alonso versus Spitzer on Fray Luis, etc.). Requirements include short weekly papers and regular participation in class discussions. *Note:* Conducted in Spanish. Required for all concentrators in their sophomore year, but open to others.

*Prerequisite:* 750 on the Harvard Placement test; a 40- or 50- level course in Spanish; or permission of course head.

### **\*Spanish 98. Tutorial—Junior Year**

Catalog Number: 5511

*Johanna Damgaard Liander and members of the Department and Tutorial Board*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion of one term of Spanish 98 is required of all honors concentrators in their junior year.

### **\*Spanish 99. Tutorial—Senior Year**

Catalog Number: 5867

*Johanna Damgaard Liander and members of the Department and Tutorial Board*

*Full course. Hours to be arranged.*

Weekly individual instruction for honors seniors writing a thesis.

*Note:* Successful completion of one term of Spanish 99 is required of all honors concentrators. To enroll, see the Undergraduate Adviser in Spanish.

### ***Cross-listed Courses***

#### **Foreign Cultures 37. Madrid, fin-de-siècle**

#### **\*Freshman Seminar 36e. Spanish-American Culture and Society in the 1960s – The Last Utopia?**

#### **\*Freshman Seminar 49w. Latin American Social Movements Literature and Arts A-57. Bilingual Arts**

### ***For Undergraduates and Graduates***

Open to students with 750 on the Harvard Placement Test or SAT II, a score of 5 on the Advanced Placement Test in language or literature, previous coursework at Harvard of an appropriate level, or permission of course head. For other related courses, see also Latin American Studies and Romance Studies.

#### **Spanish 115. The Hispanic and the Judaic after 1492: Seminar**

Catalog Number: 1506

*Avi Matalon*

*Half course (fall term). M., 4–6. EXAM GROUP: 9*

Examines Hispanic and Judaic cultures after the expulsion of 1492 by tracing the connections between Spanish and Jewish literature and historiography in the Age of Discovery. Topics will include: Sephardic civilization; *converso* literature; the early novel; the role of historiography in shaping identities; the comparative impact of exile on New World conquest.

*Note:* Discussion in English. Readings in Spanish.



**Spanish 120. Medieval Spain in the Poem of the Cid**

Catalog Number: 1579

Luis M. Girón Negrón

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

Major themes and critical approaches in the study of the Castilian epic poem *Cantar de mio Cid* and the Cidian tradition (especially in the *Romancero*).

*Note:* Conducted in Spanish.

**Spanish 123. The Honor Stage: Identity, Community, Nation in Early Modern Spanish Drama**

Catalog Number: 2080

Mary M. Gaylord

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course studies the powerful but elusive ethos of “Honor” as it informs the literary imagination of Spain during the 16th and 17th centuries. With readings in law, ethics, anthropology and history, we consider the personal and communal risks and benefits the honor code entailed, and ask why the theme demanded dramatic and poetic form. Authors studied include Juan de la Cueva, Lope, Cervantes, Tirso, Alarcón, Calderón.

**Spanish 124. Don Quixote**

Catalog Number: 1378

Mary M. Gaylord

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Close reading of “the first modern novel.” Considers Cervantes’ masterpiece as critical response to developments in European literature and aesthetic theory, to religious and political thinking, to 16th-century historiography, and to the discursive practices of imperial Spain.

*Note:* Conducted in Spanish.

**Spanish 155. Inventing Cultural and Political Myths in Latin American Culture**

Catalog Number: 7904

Diana Sorensen

*Half course (spring term). Tu., 1–3 and a weekly section to be arranged. EXAM GROUP: 15, 16*

We scrutinize the cultural strategies that produce the negotiation between concealment and revelation or invention leading to mythical representations of historical figures who are made to articulate politics and culture. Figures to be studied include Simon Bolívar, la Malinche, Eva Perón, Che Guevara.

*Note:* Conducted in Spanish.

**Spanish 167. Abjection and the Un-civil Society**

Catalog Number: 2886

Ileana Rodríguez (Ohio State University)

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Reading of recent Latin American texts. Examination of the relationship between democracy, neo-liberalism, postmodern ideologies, and cultural fantasies. Are the themes of memory, madness, delinquency, abjection a sign of the articulation of the modern and the traditional, of national and post-national ideologies, of the political and the postpolitical? Included authors are:



Sergio Chejfec, Cristina Rivera, Laura Restrepo, Sergio Ramírez.

*Note:* Conducted in Spanish.

**[Spanish 176. Globalization and Narration in the Americas]**

Catalog Number: 9269

*Luis E. Cárcamo-Huechante*

*Half course (fall term). Hours to be arranged.*

How can we locate and characterize literary and cultural production under the new conditions of globalization in the late 20th- and early 21st-century? Starting with this question, we will analyze the relationship developed by texts of the contemporary period in relation to technology, market logic, mass culture, and the local, transnational and global articulations of time and space. Will include poetry, urban chronicle, novel, short story, cultural criticism and theory, as well as cultural journals, and Internet sites.

*Note:* Expected to be given in 2007–08. Conducted in Spanish.

**Spanish 184. Sex and Gender in Spanish America: “Man” and “Woman”**

Catalog Number: 2186

*Diana Sorensen*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Charting the social and discursive constructions of sexual differences, our study focuses on gender as a category of analysis. We scrutinize it as a system, mapping feminism and masculinity studies as we address questions of identity, authority, and authorship. Readings in fiction and poetry include Mistral, Neruda, Ferré, Castellanos, Molloy, Bellatín, Donoso, Cortázar, Borges, and others.

*Note:* Conducted in Spanish.

**[Spanish 191. Jorge Luis Borges and Julio Cortazar]**

Catalog Number: 5420

*Diana Sorensen*

*Half course (fall term). Hours to be arranged.*

A course devoted to their major writings and to the ways in which they have established productive dialogues with critical theory and with other literary traditions.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

**Spanish 193. Introduction to Spanish Cinema**

Catalog Number: 3101

*Mario Santana (University of Chicago)*

*Half course (spring term). M., W., 3–4:30, with film screenings M., 4:30–6:30. EXAM GROUP: 8, 9*

Examines the history of Spanish film and explores fundamental concepts for the critical study of narrative in visual media. We will discuss the specific social and political conditions of film production in Spain, and will focus on the detailed analysis of a selection of films by, among others, Luis Buñuel, J.A. Bardem, Luis G. Berlanga, Víctor Erice, Carlos Saura, Pilar Miró, Imanol Uribe, Pedro Almodóvar, Julio Medem, Alejandro Amenábar, Ventura Pons, and Iciar Bollain.

*Note:* Conducted in Spanish.



**Spanish 195. Latino/a Writing and Its Literary Contexts**

Catalog Number: 4189

*Julio Marzán (Nassau Community College)*

*Half course (spring term). Th., 1–3:30. EXAM GROUP: 15, 16, 17*

Influenced by Latin American and US minority and feminist literatures, Latino writing emerges from a Hispanic background to mainstream American letters. This course studies these literary contexts, with antecedents such as William Carlos Williams and George Santayana, as influences on both the writing and reading of contemporary Latino texts.

*Note:* Most readings in English, class discussion in Spanish; papers and exams in Spanish.

**[Spanish 198 (formerly Spanish 90k). Cultural Spaces: Representations of the Country, the City and the Border in Spanish American Writing]**

Catalog Number: 9252

*Diana Sorensen*

*Half course (fall term). Hours to be arranged.*

How is space represented in the cultural imagination? What cultural, psychological, ideological, and social forces come into play in its production? How do nations build their notions of place, how do they conceive the negotiations between the country and the city? What does the border mean in today's world of exile and migration? Texts by Virgil, Horace, Sarmiento, José Hernández, Darío, Güiraldes, Borges, Arguedas, Gallegos, Traba, Lihn, Anzaldúa, Poniatowska, and others.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

***Cross-listed Courses***

**[Comparative Literature 111. From Type to Self in the Middle Ages]**

**[Studies of Women, Gender, and Sexuality 1202. Women's Writing and Film in Latin America and the Caribbean]**

**[Studies of Women, Gender, and Sexuality 1406. Melodrama, Camp, and Beyond: Pedro Almodóvar in Cinematic Context]**

***Primarily for Graduates***

**Spanish 201. The History of the Spanish Language**

Catalog Number: 5610

*Luis M. Girón Negrón*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

A general survey of the development of the Spanish language from Latin to the present.

Interdisciplinary approach.

*Note:* Conducted in Spanish.

**[Spanish 204 (formerly Spanish 104). Love and Power in 14th-Century Castille: Juan Ruiz and Juan Manuel]**

Catalog Number: 1181

*Luis M. Girón Negrón*

*Half course (fall term). Hours to be arranged.*



Love and power as the thematic axes in two classics of premodern Spanish verse and prose, respectively: Juan Ruiz's *Libro de buen amor* and Juan Manuel's *Conde Lucanor*. A close reading of both works with due attention to major critical trends and approaches in the scholarly literature.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

**[Spanish 243 (formerly Spanish 143). Foundational Fiction and Other Cultural Agents]**

Catalog Number: 3129

*Doris Sommer*

*Half course (fall term). Hours to be arranged.*

Through novels that legitimated nation-states in Latin America, we'll explore modernity as personal and public. Teleconferencing with Bogota updates links between creativity and citizenship: telenovelas, film, performances. Theorists include Gramsci, Anderson, Foucault, Arendt, Certeau, Mockus.

*Note:* Expected to be given in 2007–08. Conducted in Spanish.

**Spanish 245. Corrientes literarias en América Latina**

Catalog Number: 1507

*Doris Sommer*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Major literary currents, from colonial to post-modern periods, with focus on significant primary and secondary works. The weekly seminar will coordinate sessions directed by Harvard specialists and visitors.

*Note:* Readings in Spanish and Portuguese.

**[Spanish 256. Modernismo and Vanguardias]**

Catalog Number: 8759

*Bradley S. Epps and Luis E. Cárcamo-Huechante*

*Half course (fall term). Hours to be arranged.*

Examines the local and global, national and transnational, transatlantic and transcultural developments of Spanish and Spanish-American modernismos and vanguardias. Poetry, narrative, manifestos, pictorial and audiovisual arts, literary and aesthetic theory will be included.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

**Spanish 257. History and Memory: Narratives of the Spanish Transition**

Catalog Number: 3925

*Mario Santana (University of Chicago)*

*Half course (spring term). Tu., 2–5. EXAM GROUP: 16, 17, 18*

Explores the role of fiction in the representation and commemoration of the Spanish transition to democracy. Authors may include Martín Gaité, Millás, Vázquez Montalbán, Mendicutti, J. Aldecoa, Chirbes, Muñoz Molina.

*Note:* Conducted in Spanish.

**Spanish 265. The Stylistics of Death**

Catalog Number: 3947



*Ileana Rodríguez (Ohio State University)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

Analysis of the rhetoric of death and the relationship between criminal and aesthetic representations. Reading of theoretical texts that resignify death and denote a trans-national, global problematic. Latin American written, visual, and film texts are included.

*Note:* Conducted in Spanish.

**[Spanish 267. Postcolonial Intellectuals and the Question of Citizenship in Spanish America]**

Catalog Number: 9211

*Diana Sorensen*

*Half course (spring term). Hours to be arranged.*

Interrogates postcolonial theory by reflecting on its usefulness and its limitations for working out a critique of nineteenth- and twentieth-century Spanish American intellectuals. Sarmiento, Lugones, Martínez Estrada, Cortázar, Dussel, González Prada, Mariátegui, Arguedas, Ardao, Rivera Cusicanqui, Paz, O’Gorman, Anzaldúa, Cisneros, and García Canclini.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

**Spanish 274r. Spanish Literature: Seminar**

Catalog Number: 2927

*Mary M. Gaylord*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Topic for 2005–06: Fictions of Poetics and History in Don Quixote. A study of Cervantes’ parodic and satiric practice, in relation to generic conventions, poetic theory, contemporary historiography (fictional and serious) and historical context. Primary focus on the 1605 first volume.

*Note:* Conducted in Spanish.

**Spanish 275r. Spanish Literature: Seminar**

Catalog Number: 8942

*Mary M. Gaylord*

*Half course (spring term). Th., 1:30–4. EXAM GROUP: 15, 16, 17*

Topic for 2005–06: The Human Comedy According to The Other Cervantes. Studying less commonly-read works, we explore the range of Cervantes’ comic vision in verse, drama, and narrative fiction, emphasizing technical, metaliterary, and political aspects of his reinvention of inherited genres.

*Note:* Conducted in Spanish.

**[Spanish 280r. Spanish Literature: Seminar]**

Catalog Number: 8888

*Mary M. Gaylord*

*Half course (spring term). Hours to be arranged.*

Topic for 2006–07: Some Versions of Pastoral (Garcilaso, Fray Luis, San Juan, Montemayor, Gongora, Lope).

*Note:* Expected to be given in 2006–07. Conducted in Spanish.





**[Spanish 285ar. Spanish Literature: Seminar]**

Catalog Number: 4099

*Luis Fernández-Cifuentes*

*Half course (spring term). Hours to be arranged.*

Topic for 2006-07: Urban Strategies in the 19th-Century Narrative: Galdós and the city. Galdós's major Novelas Contemporáneas read in light of the analytical discourses on the modern city produced by several generations of cultural critics.

*Note:* Expected to be given in 2006–07. Conducted in Spanish.

**[Spanish 285cr. Spanish Literature: Seminar]**

Catalog Number: 1104

*Luis Fernández-Cifuentes*

*Half course (spring term). Hours to be arranged.*

Topic for 2007-08: To be announced.

*Note:* Expected to be given in 2007–08. Conducted in Spanish.

**[Spanish 287r. Spanish Literature: Seminar]**

Catalog Number: 4779

*Bradley S. Epps*

*Half course (fall term). Hours to be arranged.*

Topic for 2007-08: The Ethics of Representation: Modern Spanish Narrative. Examines the relations between “the beautiful” and “the good,” aesthetic autonomy and social responsibility, in Unamuno, Baroja, Sagarra, Sánchez Ferlosio, Martín Santos, Martín Gaité, Goytisolo, Valle-Inclán, Benet, Rodoreda, and Millás.

*Note:* Expected to be given in 2007–08. Conducted in Spanish.

***Cross-Listed Courses***

**[\*Comparative Literature 210. Comparative Themes in the Literatures of Medieval Spain: Seminar]**

**[\\*Comparative Literature 211. Mysticism and Literature: Seminar](#)**

**[Comparative Literature 277 (formerly Spanish 185). Memory, History, and Fiction]**

***Graduate Courses of Reading and Research***

See Note to Graduate Courses of Reading and Research in French.

**\*Spanish 320. Spanish and Hispanic-American Literature: Supervised Reading and Research**

Catalog Number: 5764

*Luis E. Cárcamo-Huechante 4053 (on leave 2005-06), Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880 (on leave 2005-06), Luis Fernández-Cifuentes 2091 (on leave spring term), Mary M. Gaylord 2632, Luis M. Girón Negrón 3060, Julio Marzán (Nassau Community College) 5367 (spring term only), José Antonio Mazzotti 3083, Doris Sommer 2744, and Diana Sorensen 4214*



**\*Spanish 330. Direction of Doctoral Dissertations**

Catalog Number: 2143

*Luis E. Cárcamo-Huechante 4053 (on leave 2005-06), Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880 (on leave 2005-06), Luis Fernández-Cifuentes 2091 (on leave spring term), Mary M. Gaylord 2632, Luis M. Girón Negrón 3060, Francisco Márquez Villanueva 5064, José Antonio Mazzotti 3083, Doris Sommer 2744, and Diana Sorensen 4214*

## Russia, Eastern Europe, and Central Asia

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Standing Committee on the Degree of Master of Arts in Regional Studies—  
Russia, Eastern Europe, and Central Asia***

Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies  
(Chair)

Julie A. Buckler, Professor of Slavic Languages and Literatures

Patricia R. Chaput, Professor of the Practice of Slavic Languages (on leave 2005-06)

Grzegorz Ekiert, Professor of Government

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

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

Yoshiko M. Herrera, John L. Loeb Associate Professor of the Social Sciences

John E. Malmstad, Samuel Hazzard Cross Professor of Slavic Languages and Literatures

Terry D. Martin, John L. Loeb Associate Professor of the Social Sciences

James R. Russell, Mashtots Professor of Armenian Studies

Stephanie Sandler, Ernest E. Monrad Professor of Slavic Languages and Literatures

William Mills Todd III, Harvard College Professor, Harry Tuchman Levin Professor of Literature, and Professor of Comparative Literature (on leave 2005-06)

***Other Faculty Offering Instruction in Regional Studies— Russia, Eastern Europe, and  
Central Asia***

Rawi Abdelal, Assistant Professor of Business Administration (Business School)

Jonathan H. Bolton, Assistant Professor of Slavic Languages and Literatures (on leave 2005-06)

Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and  
Professor of Comparative Literature

Bear F. Braumoeller, Associate Professor of Government

Andrew Harriman Kydd, Associate Professor of Government (on leave fall term)

Joanna Nizynska, Assistant Professor of Slavic Languages and Literatures

Andrei Shleifer, Whipple V. N. Jones Professor of Economics (on leave 2005-06)



Cindy Skach, Associate Professor of Government (*on leave fall term*)  
 Monica D. Toft, Associate Professor of Public Policy (*Kennedy School*)  
 Justin Weir, John L. Loeb Associate Professor of the Humanities (*on leave fall term*)

This is a two-year interdisciplinary program leading to the AM degree. For details, see the supplement, “AM in Regional Studies—Russia, Eastern Europe, and Central Asia (REECA).” The program aims to provide students with a firm grounding in the history, culture, language, politics, and economics of Russia, and of other countries of the former Soviet Union and Eastern Europe. Graduates typically enter careers in government service, international trade or finance, journalism, or consulting; some pursue further training in business, law, or academia.

The course of studies takes into account the previous background, as well as the professional needs and interests, of the individual student. In addition to offerings by the Faculty of Arts and Sciences, students may cross-register for courses at other schools of Harvard University, MIT, and the Fletcher School of Law and Diplomacy. Arrangements may be made for students interested in fields not usually represented in course offerings. Faculty may offer specialized seminars specifically for program students. Students who have completed basic program requirements may seek permission for individual research under faculty direction.

Below is a partial list of departments offering courses on Russian, East European, and Central Asian Studies:

Comparative Literature, Economics, Government, History, Near Eastern Languages and Civilizations (for courses on Islamic civilization, as well as languages of Central Asia and the Caucasus), and Slavic Languages and Literatures.

For more information on courses offered, please see individual departmental listings, or visit the REECA website at <http://daviscenter.fas.harvard.edu/student—programs/masters.html>

### ***Primarily for Graduates***

#### **\*Regional Studies — Russia, Eastern Europe, and Central Asia 299a. Master’s Thesis Reading and Research**

Catalog Number: 3938 Enrollment: Limited to master’s degree candidates in the REECA Program.

*Timothy J. Colton and members of the Faculty*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading, research, and writing to fulfill the thesis requirement in the master’s degree program in Regional Studies—Russia, Eastern Europe, and Central Asia.

*Note:* Master’s degree candidates are required to complete both \*RSRA 299a and \*299b.

Normally, these courses are taken during the second year of graduate studies.

#### **\*Regional Studies — Russia, Eastern Europe, and Central Asia 299b. Master’s Thesis Reading and Research**

Catalog Number: 1931 Enrollment: Limited to master’s degree candidates in the REECA Program.



*Timothy J. Colton and members of the Faculty*

*Half course (fall term; repeated spring term). Hours to be arranged.*

A continuation of RSRA 299a.

*Note:* Master's degree candidates are required to complete both \*RSRA 299a and \*299b.

Normally, these courses are taken during the second year of graduate studies.

## Sanskrit and Indian Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Sanskrit and Indian Studies*

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*Chair*)

Azhar Abbas, Preceptor in Urdu-Hindi

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society (*Head Tutor*)

Naseem A. Hines, Preceptor in Urdu-Hindi

Lawrence J. McCrea, Preceptor in Sanskrit

Parimal G. Patil, Assistant Professor of the Study of Religion and of Sanskrit and Indian Studies (*Director of Graduate Studies*) (*on leave 2005-06*)

Michael Witzel, Wales Professor of Sanskrit

#### *Other Faculty Offering Instruction in the Department of Sanskrit and Indian Studies*

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)

Richard H. Meadow, Senior Lecturer on Anthropology

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Sat/UNS. Students should consult with course heads to determine if a course is offered on that basis. For further information and updates, please visit our website: [www.fas.harvard.edu/~sanskrit/courses.html](http://www.fas.harvard.edu/~sanskrit/courses.html)

### *Indian Studies*

#### *Primarily for Undergraduates*

#### [\\*Indian Studies 90r. South Asian Language Tutorials](#)

Catalog Number: 0317

*Diana L. Eck and assistants*



*Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Spring: 3*  
Individualized study of a South Asian language; emphasis on written expression, reading comprehension and oral fluency. Languages currently offered include Tamil and Bengali though others may be approved upon petition to the Head Tutor/Director of Graduate Studies.  
*Note: Not open to auditors.*

**\*Indian Studies 91r. Supervised Reading and Research**

Catalog Number: 0247

*Diana L. Eck and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading leading to a long term paper in a topic or topics not covered by regular courses of instruction.

*Note: A graded course. Offered at the discretion of the individual instructors.*

**\*Indian Studies 98r. Tutorial — Junior Year**

Catalog Number: 4757

*Diana L. Eck and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note: Required of concentrators in the South Asian Studies option.*

**\*Indian Studies 99. Tutorial — Senior Year**

Catalog Number: 6111

*Diana L. Eck and members of the Department*

*Full course. Hours to be arranged.*

*Note: Required of concentrators in the South Asian Studies option.*

***Cross-Listed Courses***

**Foreign Cultures 12. Sources of Indian Civilization**

**[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]**

**\*Freshman Seminar 32x. Topics in Indo-Tibetan Buddhism**

**\*Freshman Seminar 44p. Contemporary India: Fact and Fiction**

**[Historical Study A-16. The Making of Modern South Asia]**

**[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage]**

***For Undergraduates and Graduates***

**[Indian Studies 107. Tradition and Modernity in the Urdu-Hindi Short Story]**

Catalog Number: 5952

*Naseem A. Hines*

*Half course (fall term). Hours to be arranged.*

A survey of themes of tradition and modernity in Urdu-Hindi short stories. We begin with Premchand and Phanishwarnath Renu's works, proceed to progressive writers like Manto, Chughtai, Bedi, and Krishan Chandar who broke away from social morality to confront taboo topics like urban decay and sex, and examine events leading to the evolution of New Story of Nirmal Varma, Asghar Wazahat, Mridula Garg, and Mannu Bhandari.



*Note:* Expected to be given in 2006–07. All readings in English. Students may access parts in Urdu-Hindi.

**[Indian Studies 110. History of South Asia to 1200 CE]**

Catalog Number: 7405

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

Examines the various sources available for the understanding of Indian history, from the prehistoric beginnings until c. 1200 CE, including texts, inscriptions, foreign accounts, linguistics, archaeology, anthropology, and genetics. Gives a synopsis of evidence relating to the Indus culture, the Vedic period, the early Maurya, Kushana and Gupta empires, and the regional states of the Medieval period. Takes into account recent discussions on rewriting early South Asian history from a nationalistic point of view.

*Note:* Expected to be given in 2006–07.

**[Indian Studies 118. Indian Philosophy: Advanced Introduction]**

Catalog Number: 2709

*Parimal G. Patil*

*Half course (fall term). Hours to be arranged.*

Discusses selected topics in Indian epistemology, philosophy of language, philosophy of mind, philosophy of religion, and metaphysics. We pay particular attention to the philosophical content of sectarian debates between Buddhist, Hindu, and Jaina philosophers and attempt to assess their arguments. Readings for the course include translations of primary texts, and some selected secondary material.

*Note:* Expected to be given in 2006–07. No knowledge of India or Sanskrit assumed or required.

**[Indian Studies 119. South Asian Literature and Its Theorists]**

Catalog Number: 2321

*Parimal G. Patil*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

**[East Asian Buddhist Studies 114. The Mahâyâna in East Asia: Bodhisattvas and Their Cults in Medieval and Early Modern East Asian Buddhism]**

**[History 1897. Nation, Reason and Religion in South Asia]**

**[Music 190r. Topics in World Music: Proseminar](#)**

**[\\*Music 190rs. Topics in World Music: Proseminar](#)**

**[Persian 140ar. Selected Readings in Classical Persian Literature](#)**

**[Religion 1063. South Asian Religious Aesthetics: Seminar]**

**[Religion 1600. Introduction to Hindu Thought and Practice](#)**

**[Religion 1631. Hindu Traditions of Devotion](#)**

**[Religion 1650. Modern Hindu Movements: Seminar](#)**

**[Religion 1706. South Asian Buddhism: Dharmas, Emptiness, and Idealism ]**

**[Religion 1801 (formerly Religion 1551). For the Love of God and His Prophet: Religion,**



**Literature, and the Arts in Muslim Cultures]**

**[Religion 1802 (formerly Religion 1555). Introduction to Islamic Mysticism: The Sufi Tradition]**

**[\*Religion 1820 (formerly \*Religion 1585). Islam in South Asia: Religion, Culture, and Identity in South Asian Muslim Societies]**

***Primarily for Graduates***

**Indian Studies 201. Materials and Methods of Indian Studies: Proseminar**

Catalog Number: 5406

*Michael Witzel and members of the Department*

*Half course (spring term). Hours to be arranged.*

*Note: Required for all Sanskrit-track PhD students.*

**Indian Studies 206. Old Indian and Eurasian Creation Myths: Seminar**

Catalog Number: 0923

*Michael Witzel*

*Half course (fall term). F., 3–5. EXAM GROUP: 8, 9*

An analysis of selected Old Indian cosmogonic myths contrasted with comparable ones from other Indo-European and Asian traditions. The respective mythological systems, possible interpretations, and an emerging framework for their form and structure are investigated.

**[Indian Studies 211. Archaic Indian Religion: The Vedas. Seminar]**

Catalog Number: 6441

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

Overview of the oldest form of Indian religion, in Vedic texts: mythological system of the Rgveda, the complex array of solemn *srauta* and domestic rituals (rites of passage), and the transcendental philosophy of the Upanisads.

*Note: Expected to be given in 2006–07. Knowledge of Sanskrit not required.*

***Cross-listed Courses***

**[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]**

**[History 2892. Colonial and Post-Colonial Histories of South Asia: Seminar]**

**Linguistics 220ar. Advanced Indo-European**

***Graduate Courses of Reading and Research***

**\*Indian Studies 302. Reading and Research**

Catalog Number: 1405

*Ali S. Asani 7739 (on leave 2005-06), Diana L. Eck 4514, Parimal G. Patil 4478 (on leave 2005-06), and Michael Witzel 1602*

***Sanskrit***





***Primarily for Undergraduates***

**\*Sanskrit 91r. Supervised Reading and Research**

Catalog Number: 5497

*Diana L. Eck and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Supervised reading of texts in Sanskrit not covered by regular courses of instruction.

*Note:* A graded course. Offered at the discretion of the individual instructors.

**\*Sanskrit 98r. Tutorial — Junior Year**

Catalog Number: 3117

*Diana L. Eck and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Required of concentrators in the Sanskrit Language and Literature option.

**\*Sanskrit 99. Tutorial - Senior Year**

Catalog Number: 9745

*Diana L. Eck and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Required of students writing a thesis in the Sanskrit Language and Literature track.

***For Undergraduates and Graduates***

**Sanskrit 101a. Elementary Sanskrit**

Catalog Number: 8140

*Lawrence J. McCrea*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

An introduction to Sanskrit.

**Sanskrit 101b. Elementary Sanskrit**

Catalog Number: 6892

*Lawrence J. McCrea*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Continuation of Sanskrit 101a.

**Sanskrit 102a. Intermediate Sanskrit I**

Catalog Number: 4843

*Lawrence J. McCrea*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Selected readings in verse and prose, drawn primarily from the Epics and Classical poetic works.

**Sanskrit 102b. Intermediate Sanskrit II**

Catalog Number: 4916

*Lawrence J. McCrea*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

Continuation of Sanskrit 102a.



***Primarily for Graduates***

**[Sanskrit 200ar. Advanced Poetic Sanskrit]**

Catalog Number: 3658

*Lawrence J. McCrea*

*Half course (fall term). Hours to be arranged.*

Selected readings from inscriptions and documents.

*Note:* Expected to be given in 2006–07.

**[Sanskrit 200br. Advanced Poetic Sanskrit]**

Catalog Number: 6510

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

Selected readings from inscriptions and documents.

*Note:* Expected to be given in 2006–07.

**Sanskrit 201ar. Advanced Philosophical Sanskrit**

Catalog Number: 9986

*Lawrence J. McCrea*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Topic to be announced.

**Sanskrit 201br. Advanced Philosophical Sanskrit**

Catalog Number: 5965

*Lawrence J. McCrea*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Topic to be announced.

**Sanskrit 204ar. Introduction to Vedic Sanskrit and Literature**

Catalog Number: 6123

*Michael Witzel*

*Half course (fall term). Hours to be arranged.*

Introduction to Vedic grammar. Selection of Vedic prose texts from the Yajurveda Samhitas, Brahmanas, Aranyakas, and Upanisads.

*Prerequisite:* At least one year of Sanskrit

**Sanskrit 204br. Introduction to Vedic Sanskrit and Literature**

Catalog Number: 8944

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

Continuation of Sanskrit 204ar.

*Prerequisite:* At least one year of Sanskrit

**[Sanskrit 215ar. Dharmasastra and Arthasastra]**

Catalog Number: 6599

*Michael Witzel*



*Half course (fall term). Hours to be arranged.*  
Readings in legal and political texts.  
*Note:* Expected to be given in 2006–07.

***Graduate Courses of Reading and Research***

**\*Sanskrit 301. Reading and Research**

Catalog Number: 2158

*Diana L. Eck 4514, Parimal G. Patil 4478 (on leave 2005-06), and Michael Witzel 1602*

**\*Sanskrit 310. Direction of Doctoral Dissertations**

Catalog Number: 4371

*Diana L. Eck 4514, Parimal G. Patil 4478 (on leave 2005-06), and Michael Witzel 1602*

***Pali***

***For Undergraduates and Graduates***

**Pali 101a. Introductory Pali**

Catalog Number: 4129

*Parimal G. Patil and members of the Department*

*Half course (fall term). Hours to be arranged.*

*Note:* Given in alternate years.

*Prerequisite:* One year of Sanskrit.

**Pali 101b. Introductory Pali**

Catalog Number: 7320

*Parimal G. Patil and members of the Department*

*Half course (spring term). Hours to be arranged.*

Continuation of Pali 101a.

*Note:* Given in alternate years.

*Prerequisite:* One year of Sanskrit.

**Pali 102a. Intermediate Pali**

Catalog Number: 8376

*Parimal G. Patil and members of the Department*

*Half course (fall term). Hours to be arranged.*

*Note:* Given in alternate years.

**\*Pali 102b. Intermediate Pali**

Catalog Number: 7748

*Parimal G. Patil and members of the Department*

*Half course (spring term). Hours to be arranged.*

Continuation of Pali 102a.

*Note:* Given in alternate years.

*Prerequisite:* Pali 102a or equivalent.



**Pali 103r. Readings in Pali**

Catalog Number: 6985

*Parimal G. Patil and members of the Department*  
*Half course (fall term). Hours to be arranged.*

***Graduate Courses of Reading and Research***

***Nepali***

***For Undergraduates and Graduates***

**Nepali 101a. Introductory Nepali**

Catalog Number: 8974

*Michael Witzel and assistant*  
*Half course (fall term). Hours to be arranged.*

**Nepali 101b. Introductory Nepali**

Catalog Number: 3039

*Michael Witzel and assistant*  
*Half course (spring term). Hours to be arranged.*

***Urdu and Hindi***

***For Undergraduates and Graduates***

**Urdu 101. Introductory Urdu-Hindi**

Catalog Number: 4078

*Naseem A. Hines and Azhar Abbas*

*Full course (indivisible). M. through Th., (F.), at 12, 3, or 4. EXAM GROUP: 5, 14*

An introduction to the lingua franca of the subcontinent in its "Hindustani" form. Students are introduced to both the Perso-Arabic and the Devanagari script systems. Conventional teaching materials are supplemented by popular songs and clips from contemporary Indian cinema.

*Note:* Not open to auditors.

**Urdu 102. Intermediate Urdu-Hindi**

Catalog Number: 2941

*Naseem A. Hines and assistant*

*Full course (indivisible). Fall: M. through Th., at 4; Spring: Tu., at 9, M., W., Th., at 4. EXAM GROUP: Fall: 9, 18; Spring: 9, 11, 18*

Continuation of Urdu 101. Emphasis on written expression and texts in both Perso-Arabic and Devanagari script systems. Students are introduced to Urdu/Hindi fables, short stories, and various other genres of literature, including poetry.

*Note:* Not open to auditors.

*Prerequisite:* Urdu 101 or equivalent.



**Urdu 103a. Advanced Urdu-Hindi**

Catalog Number: 0700

*Naseem A. Hines*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Continuation of Urdu 102; covers topics in advanced grammar; designed to improve proficiency in speaking, listening, reading, and writing.

*Prerequisite:* Urdu 102 or equivalent.

**Urdu 103b. Advanced Urdu-Hindi**

Catalog Number: 4615

*Naseem A. Hines*

*Half course (spring term). Hours to be arranged.*

Continuation of Urdu 103a.

**[Urdu 104. The Classical Urdu Ghazal and Its Symbolism]**

Catalog Number: 0927

*Naseem A. Hines*

*Half course (fall term). Hours to be arranged.*

A survey of the popular literary genre including selections from poets such as Wali Dakkani, Siraj Aurangabadi, Mir Dard, Haidar Ali Atish, Mirza Ghalib, and others. Special attention to religious and mystical symbolism.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Urdu 102 or equivalent.

**Urdu 105r. Topics in Urdu-Hindi Literature**

Catalog Number: 5963

*Naseem A. Hines and Azhar Abbas*

*Half course (fall term; repeated spring term). Fall: Th., 3–5; Spring: F 1:30-4:30. EXAM GROUP: Fall: 17, 18; Spring: 6, 7, 8, 9*

A course for students with native or near-native proficiency with readings in a variety of genres from Urdu and/or Hindi literature based on student interest.

**[Urdu 106r. Advanced Oral Proficiency in Urdu-Hindi]**

Catalog Number: 3945

*Naseem A. Hines*

*Half course (fall term; repeated spring term). Hours to be arranged.*

A course intended to raise levels of oral proficiency for advanced students and consolidate command over complex grammatical structures. By the end of the term, students will be expected to converse in a clearly participatory fashion, initiate, sustain and bring to closure a wide variety of communicative tasks using diverse language strategies.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Urdu 103 or equivalent or instructor's permission.

***Graduate Courses of Reading and Research***



**\*Urdu 300. Reading and Research**

Catalog Number: 2131

*Ali S. Asani 7739 (on leave 2005-06)*

***Tibetan and Himalayan Studies***

***Primarily for Undergraduates***

**Tibetan 91r. Supervised Reading and Research**

Catalog Number: 2288

*Leonard W. J. van der Kuijp and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Supervised reading of texts in Tibetan not covered by regular courses of instruction.*

**Tibetan 98r. Tutorial-Junior Year**

Catalog Number: 1895

*Leonard W. J. van der Kuijp and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

**Tibetan 99. Tutorial-Senior Year**

Catalog Number: 5349

*Leonard W. J. van der Kuijp and members of the Department*

*Full course. Hours to be arranged.*

***For Undergraduates and Graduates***

**Tibetan 101a. Elementary Classical Tibetan**

Catalog Number: 4132

*Leonard W. J. van der Kuijp and assistant*

*Half course (fall term). Hours to be arranged.*

**Tibetan 101b. Elementary Classical Tibetan**

Catalog Number: 5299

*Leonard W. J. van der Kuijp and assistant*

*Half course (spring term). Hours to be arranged.*

*Prerequisite: Tibetan 101a.*

**[Tibetan 103r. Introduction to Pre-Classical Tibetan]**

Catalog Number: 7031

*Leonard W. J. van der Kuijp*

*Half course (spring term). Hours to be arranged.*

*Note: Expected to be given in 2006–07.*

*Prerequisite: Tibetan 101a and 101b.*

**Tibetan 104ar. Elementary Colloquial Tibetan**

Catalog Number: 4158



*Leonard W. J. van der Kuijp and assistant*  
*Half course (fall term). Hours to be arranged.*

**[Tibetan 104br. Elementary Colloquial Tibetan]**

Catalog Number: 7026

*Leonard W. J. van der Kuijp and assistant*  
*Half course (spring term). Hours to be arranged.*

Continuation of Tibetan 104a.

*Note:* Expected to be given in 2006–07.

**Tibetan 105ar. Intermediate Colloquial Tibetan**

Catalog Number: 1314

*Leonard W. J. van der Kuijp and assistant*  
*Half course (fall term). Hours to be arranged.*

**Tibetan 105br. Intermediate Colloquial Tibetan**

Catalog Number: 1151

*Leonard W. J. van der Kuijp and assistant*  
*Half course (spring term). Hours to be arranged.*

**[Tibetan 106ar. Advanced Colloquial Tibetan]**

Catalog Number: 7094

*Leonard W. J. van der Kuijp and assistant*  
*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Tibetan 101 and 102, or equivalent.

**[Tibetan 106br. Advanced Colloquial Tibetan]**

Catalog Number: 5352

*Leonard W. J. van der Kuijp and assistant*  
*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Tibetan 101 and 102, or equivalent.

**Tibetan 111. The History and Civilization of Tibet and the Buddhist Himalayas**

Catalog Number: 2749

*Leonard W. J. van der Kuijp*  
*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

***Cross-Listed Courses***

**[Religion 1700. Introduction to Buddhism, in Theory and Practice]**

**Religion 1708. Issues in Buddhist Philosophy: Conference Course**

***Primarily for Graduates***





**[Tibetan 200ar. Classical Poetic Tibetan]**

Catalog Number: 7360

*Leonard W. J. van der Kuip*

*Half course (spring term). Hours to be arranged.*

Readings in Tibetan texts on poetic theory based on Indian models, together with illustrations of a number of poetic figures. The main text will be the Tibetan translation of the Kavyadarsa and passages from Tibetan commentaries.

*Note:* Expected to be given in 2006–07.

**[\*Tibetan 201r. Introduction to Philosophical Tibetan]**

Catalog Number: 7507

*Leonard W. J. van der Kuip*

*Half course (fall term). Hours to be arranged.*

Topic to be arranged.

*Note:* Expected to be given in 2006–07.

**Tibetan 202r. Readings in Advanced Philosophical Tibetan**

Catalog Number: 7601

*Leonard W. J. van der Kuip*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

Analysis and reading of a Tibetan treatise titled “dbu ma chen po” an early 13th-century work on Madyamaka philosophy.

**[Tibetan 213. Geography of Tibet]**

Catalog Number: 8255

*Leonard W. J. van der Kuip*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

**Tibetan 219. Tibetan Religious Literature**

Catalog Number: 9500

*Janet Gyatso (Divinity School)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Reading of Tibetan primary sources for the study of Tibetan religion and cultural history. In fall 2005, the readings will focus on the 19th century Ris-med movement, particularly Kong-sprul, and Mi-pham.

*Note:* Offered jointly with the Divinity School as 3892.

*Prerequisite:* Basic reading knowledge of Tibetan.

**[Tibetan 220. Introduction to the Tibetan Buddhist Schools: The Sakya Tradition]**

Catalog Number: 0367

*Leonard W. J. van der Kuip*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07. Readings in Tibetan.



**[Tibetan 221. Introduction to the Tibetan Schools: the nyingma and the kadam traditions]**

Catalog Number: 3991

*Leonard W. J. van der Kuip*

*Half course (spring term). Hours to be arranged.*

*Note: Expected to be given in 2006–07.*

***Cross-Listed Courses***

**[Chinese History 252. The Conquest Dynasties](#)**

***Graduate Courses of Reading and Research***

**\*Tibetan 300. Reading and Research**

Catalog Number: 0666

*Leonard W. J. van der Kuip 1556*

**\*Tibetan 302. Direction of AM Theses**

Catalog Number: 6927

*Leonard W. J. van der Kuip 1556*

**\*Tibetan 305. Tibetan and Himalayan Studies**

Catalog Number: 4377

*Leonard W. J. van der Kuip 1556*

***Thai***

***For Undergraduates and Graduates***

**[Thai 101a. Introductory Thai I](#)**

Catalog Number: 5395

*Parimal G. Patil and assistant*

*Half course (fall term). Hours to be arranged.*

*Note: Given in alternate years.*

**[Thai 101b. Introductory Thai II](#)**

Catalog Number: 6557

*Parimal G. Patil and assistant*

*Half course (spring term). Hours to be arranged.*

*Note: Given in alternate years.*

**[Thai 102a. Intermediate Thai I](#)**

Catalog Number: 8582

*Parimal G. Patil and assistant*

*Half course (fall term). Hours to be arranged.*

A two-term continuation of the study of Thai at the intermediate level. Students build on acquired proficiency at the elementary level (or its equivalent) towards achieving more fluency



in reading, speaking, writing, and listening comprehension of standard Thai, as well as in cultural-social skills. Introduces new vocabulary and grammar through communicative tasks and text readings, mainly using the situational-communicative methodology.

*Prerequisite:* Successful completion of Elementary Thai (or equivalent) is required. Continuing students who did not take Introductory Thai, as well as new students, are encouraged to talk to the instructor prior to registration.

### **Thai 102b. Intermediate Thai II**

Catalog Number: 3751

*Parimal G. Patil and assistant*

*Half course (spring term). Hours to be arranged.*

*Prerequisite:* Thai 102a.

### **Thai 103ar. Readings in Thai I**

Catalog Number: 7590

*Parimal G. Patil*

*Half course (fall term). Hours to be arranged.*

### **Thai 103br. Readings in Thai II**

Catalog Number: 7593

*Parimal G. Patil*

*Half course (spring term). Hours to be arranged.*

### ***Graduate Courses of Reading and Research***

#### **\*Thai 300. Reading and Research**

Catalog Number: 5368

*Ali S. Asani 7739 (on leave 2005-06) (spring term only), Parimal G. Patil 4478 (on leave 2005-06) (fall term only) and assistant*

*Half course (fall term; repeated spring term). Tu., 4–6.*

## Slavic Languages and Literatures

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

***Faculty of the Department of Slavic Languages and Literatures***



Stephanie Sandler, Ernest E. Monrad Professor of Slavic Languages and Literatures (*Chair*)  
 Anna Baranczak, Preceptor in Slavic Languages and Literatures  
 Stanislaw Baranczak, Alfred Jurzykowski Professor of Polish Language and Literature (*on leave 2005-06*)  
 Jonathan H. Bolton, Assistant Professor of Slavic Languages and Literatures (*on leave 2005-06*)  
 Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature  
 Julie A. Buckler, Professor of Slavic Languages and Literatures (*Director of Graduate Studies*)  
 Patricia R. Chaput, Professor of the Practice of Slavic Languages (*Director of the Language Program*) (*on leave 2005-06*)  
 Natalia Chirkov, Preceptor in Slavic Languages and Literatures  
 Cole M. Crittenden, Lecturer on Slavic Languages and Literatures  
 Volodymyr Dibrova, Preceptor in Slavic Languages and Literatures  
 Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology  
 Vladimir Y. Gitin, Senior Preceptor in Slavic Languages and Literatures  
 George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature  
 Nora Hampl, Preceptor in Slavic Languages and Literatures  
 Daniela S. Hristova, Visiting Assistant Professor of Slavic Languages and Literatures (*University of Chicago*) (*spring term only*)  
 Halyna Hryn, Lecturer on Slavic Languages and Literatures  
 Mikhail Iampolski, Visiting Associate Professor of Slavic Languages and Literatures (*New York University*) (*spring term only*)  
 John E. Malmstad, Samuel Hazzard Cross Professor of Slavic Languages and Literatures  
 Igor V. Nemirovsky, Visiting Lecturer on Slavic Languages and Literatures (*Institute of Russian Literature, St. Petersburg*) (*fall term only*)  
 Joanna Nizynska, Assistant Professor of Slavic Languages and Literatures (*Director of Undergraduate Studies*)  
 Natalia Pokrovsky, Preceptor in Slavic Languages and Literatures  
 Alfia A. Rakova, Preceptor in Slavic Languages and Literatures  
 Natalia Reed, Preceptor in Slavic Languages and Literatures  
 Polina Rikoun, Lecturer on Slavic Languages and Literatures  
 William Mills Todd III, Harvard College Professor, Harry Tuchman Levin Professor of Literature, and Professor of Comparative Literature (*on leave 2005-06*)  
 Aida Vidan, Preceptor in Slavic Languages and Literatures  
 Justin Weir, John L. Loeb Associate Professor of the Humanities (*on leave fall term*)  
 Curt F. Woolhiser, Preceptor in Slavic Languages and Literatures  
 Peter A. Zusi, Lecturer on Slavic Languages and Literatures (*fall term only*)

## ***Language Courses***

### ***For Undergraduates and Graduates***

*Sectioning Note:* Sectioning in multisectioned language courses is determined by attendance in class during the first week and through subsequent adjustments to maintain uniform section size. There is no separate sectioning meeting for language courses. Beginning on the first day of class, sections fill on a first-come basis, so that some sections may close on the first day. Students



should attend the section of their choice and must continue to attend throughout the first week (or make special arrangements) to retain their places in sections. Students who miss classes may enter only those sections where space is available. Please note that under-enrolled sections may be canceled or rescheduled. No section times are guaranteed. As a general rule, no auditors are permitted in language courses. If fellowship terms or other circumstances prohibit registration, students must speak with the Director of the Language Program to request permission to audit. Language courses may not be taken Pass/Fail. Some courses permit graduate students to register on a Pass/Fail basis, but only by permission of the instructor. For further information on the Slavic Department, please go to [www.fas.harvard.edu/~slavic](http://www.fas.harvard.edu/~slavic).

### **Slavic A. Beginning Russian**

Catalog Number: 8014

*Natalia Reed and others*

*Full course. Section I: M., Tu., W., F., at 9; Section II: M., Tu., W., F., at 10; Section III: M., W., F., at 11, Tu., at 9; with a fifth hour of speaking practice to be arranged on Thursdays (either 9, 10, 11, or 1). EXAM GROUP: Fall: 2, 11; Spring: 2*

Introduction to the essentials of the Russian language, designed for students without previous knowledge of Russian. Intensive speaking practice in essential grammar and vocabulary using naturally occurring conversational patterns. Introduction to the speech etiquette of social exchanges. Reading and discussion of stories, biography, and poetry.

*Note:* See sectioning note above.

### **Slavic Aab. Beginning Russian (Intensive)**

Catalog Number: 4441

*Polina Rikoun (fall term), Natalia Reed (spring term), and others.*

*Full course (fall term; repeated spring term). M.-F., at 9; Speaking Practice: M., W., F., at 10 or 11. EXAM GROUP: 2, 11*

Covers the same material as Slavic A but in one term.

*Note:* See sectioning note above.

### **Slavic Ac. Intermediate Grammar and Vocabulary Review I**

Catalog Number: 0496

*Alfia A. Rakova and others*

*Half course (fall term). M., W., F., at 10, and an additional hour for speaking practice Tu., at 10 or 11. EXAM GROUP: 3*

For students who would benefit from additional work on grammar before continuing on to more advanced courses. Oral and written exercises focus on speaking and writing accurately and on developing confidence with vocabulary.

*Note:* See sectioning note above. Special section for heritage speakers.

*Prerequisite:* One or more years of college-level Russian or equivalent or placement at this level.

### **[Slavic Ba. Intermediate Russian: First Term]**

Catalog Number: 0638

*Alfia A. Rakova and others*

*Half course (spring term). Hours to be arranged.*

Covers the material of the first term of Slavic B.



*Note:* Expected to be given in 2006–07. See sectioning note above.

*Prerequisite:* Slavic A, Aab, Ac, or placement at the intermediate level. One year's practice in spoken Russian.

### **Slavic Bab. Intermediate Russian (Intensive)**

Catalog Number: 1657

*Vladimir Y. Gitin and Natalia Chirkov*

*Full course (fall term; repeated spring term). Meets eight hours per week. M–F., at 9, with three additional hours of speaking practice M., W., F., at 1. EXAM GROUP: 2, 11*

Covers essentially the same material as Slavic B, but in one term. Readings may vary.

*Note:* See sectioning note above.

*Prerequisite:* Slavic A, Aab, Ac, or placement at the intermediate level.

### **Slavic Bb. Intermediate Russian: Second Term**

Catalog Number: 1165

*Natalia Reed and others*

*Half course (fall term). M., Tu., F., at 2. EXAM GROUP: 7, 16*

Covers the content of the second semester of Slavic B.

*Note:* See sectioning note above. No auditors permitted. May not be taken Pass/Fail.

*Prerequisite:* Slavic Ba or placement at this level.

### **Slavic Ca. Beginning Czech I**

Catalog Number: 2173

*Nora Hampl*

*Half course (fall term). M., W., F., at 10; and an additional hour for speaking practice to be arranged. EXAM GROUP: 3*

An introductory course in modern Czech for students with no previous knowledge of the language. Emphasis on the development of oral proficiency as well as on reading and listening comprehension skills. Written work for practice and reinforcement. Reading of simple poetry and prose.

### **Slavic Cb. Beginning Czech II**

Catalog Number: 7117

*Nora Hampl*

*Half course (spring term). M., W., F., at 10; and an additional hour for speaking practice to be arranged. EXAM GROUP: 3*

Continuation of modern Czech grammar and the further development of reading, writing, and oral skills. Reading and discussion of simple literary texts by Hasek, Capek, Havel, and Kundera.

### **Slavic Cc. Intermediate Czech**

Catalog Number: 6028

*Nora Hampl*

*Half course (fall term). Th., at 9. EXAM GROUP: 9*

Development of vocabulary and oral expression with review of Czech grammar. Readings reflect contemporary trends in Czech literature and historical and political developments. Topics include



cultural perceptions of the self, family, society, and ethical and political attitudes.

*Prerequisite:* Slavic Ca and Cb or placement at this level.

### **Slavic Cd. Intermediate Czech II**

Catalog Number: 7411

*Nora Hampl*

*Half course (spring term). M., at 9, Tu., Th., at 10 and speaking sections to be arranged. EXAM GROUP: 12*

Continue to develop vocabulary and oral expression with discourse strategies. Film clips and other multimedia introduce students to contemporary trends in Czech culture, while readings focus on historical and political developments. Topics include cultural perceptions of the self, family, society, and ethical and political attitudes.

*Prerequisite:* Slavic Ca, Cb, Cc, or placement at this level.

### **\*Slavic Cr. Supervised Readings in Intermediate/Advanced Czech**

Catalog Number: 0847

*Natalia Reed and Nora Hampl*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial based on student course proposals.

*Note:* Department application required. No applications accepted after the third day of classes. Interested students should contact Natalia Reed or before the first day of class to apply.

### **Slavic Da. Beginning Polish I**

Catalog Number: 8158

*Anna Baranczak*

*Half course (fall term). M., W., F., at 9 and an additional hour for speaking practice to be arranged. EXAM GROUP: 2*

Introduction to the fundamentals of Polish designed for students with no previous knowledge of the language. Emphasis on oral practice of essential grammar structures in naturally occurring conversational patterns. Reading and discussion of simple prose and/or poetry.

### **Slavic Db. Beginning Polish II**

Catalog Number: 6907

*Anna Baranczak*

*Half course (spring term). M., W., F., at 9 and an additional hour of speaking practice to be arranged. EXAM GROUP: 2*

Continuation of Slavic Da. Continued work on Polish grammar with increasing emphasis on reading. Continued oral work and writing for practice and reinforcement.

### **\*Slavic Dr. Supervised Readings in Intermediate/Advanced Polish**

Catalog Number: 1096

*Natalia Reed and Anna Baranczak*

*Half course (fall term; repeated spring term). Fall: Tu., 11–1, F., 1–3; or M., W. 12. EXAM GROUP: Fall: 6, 7, 13, 14*

Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial based





on student course proposals.

*Note:* Department application required. Interested students should contact Natalia Reed before the first day of class to apply. No applications accepted after the third day of classes.

### **Slavic Ea. Beginning Croatian, Bosnian, and Serbian I**

Catalog Number: 3163

*Aida Vidan*

*Half course (fall term). M., W., F., at 9, and an additional hour for speaking practice to be arranged. EXAM GROUP: 2*

Formerly called Serbo-Croatian. An introductory course for students with no prior knowledge of these languages. Fundamentals of grammar; work on listening and reading comprehension. Students will choose either Serbian or Croatian for their oral and written work; listening and reading comprehension will include both variants.

### **Slavic Eb. Beginning Croatian, Bosnian, and Serbian II**

Catalog Number: 2683

*Aida Vidan*

*Half course (spring term). M., W., F., at 9, and an additional hour for speaking practice to be arranged. EXAM GROUP: 2*

Continuation of Slavic Ea. Continued work on vocabulary expansion with further development of written and oral skills. Readings and discussion of simple or adapted poetry and prose.

### **\*Slavic Er. Supervised Readings in Intermediate/Advanced Croatian and Serbian**

Catalog Number: 7413

*Natalia Reed and Aida Vidan*

*Half course (fall term; repeated spring term). Fall: Hours to be arranged. Spring: Tu., 10–11:30. EXAM GROUP: Spring: 12, 13*

Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial based on student course proposals.

*Note:* Department application required. No applications accepted after the third day of classes. Interested students should contact Natalia Reed before the first day of class to apply.

### **Slavic Ga. Beginning Ukrainian I**

Catalog Number: 5536

*Volodymyr Dibrova*

*Half course (fall term). M., W., F., at 9; and an additional hour for speaking practice to be arranged. EXAM GROUP: 2*

Introduction to the fundamentals of Ukrainian designed for students with no previous knowledge of the language. Emphasis on oral practice of essential grammar structures in naturally occurring conversational patterns. Reading and discussion of simple prose and/or poetry. Writing for practice and reinforcement.

### **Slavic Gb. Beginning Ukrainian II**

Catalog Number: 7126

*Volodymyr Dibrova*

*Half course (spring term). M., W., F., at 9, and an additional hour for speaking practice to be*



*arranged. EXAM GROUP: 2*

Continuation of Slavic Ga. Continued work on Ukrainian grammar with further development of vocabulary, oral expression and comprehension. Readings of short stories and poems with discussion of texts in Ukrainian.

**\*Slavic Gr. Supervised Readings in Intermediate/Advanced Ukrainian**

Catalog Number: 1260

*Natalia Reed and Volodymyr Dibrova*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial based on student course proposals.

*Note:* Department application required. No applications accepted after the third day of classes. Interested students should contact Natalia Reed before the first day of class to apply.

**Slavic 101. Advanced Intermediate Russian: Reading, Grammar Review, and Conversation**

Catalog Number: 7234

*Alfia A. Rakova and Natalia Pokrovsky*

*Half course (fall term; repeated spring term). Fall: M., W., F., at 1; speaking section: Tu., Th., at 11; Spring: M., W., F., at 1 with two hours of speaking practice to be arranged. EXAM GROUP: 6*

Continuing development of speaking and reading proficiency. Vocabulary work emphasizes verbs and verb government as essential to effective communication. Work on word formation to increase reading vocabulary. Texts for reading and discussion include works in prose, poetry, and film. Readings include a satirical tale by Shvartz, poetry of Akhmatova, and a film (Bykov's *Scarecrow*).

*Note:* See sectioning note above.

*Prerequisite:* Slavic B, Bab, Bb, or placement at this level.

**Slavic 102. Advanced Russian: Introduction to the Language of History and the Media**

Catalog Number: 3280

*Curt F. Woolhiser*

*Half course (fall term). M., W., F., at 10; and a fourth hour to be arranged. EXAM GROUP: 3*

Introduction to the language of Russian newspapers, journals, historical writing, and TV programming. Basic vocabulary for areas of current interest, including politics, history, economics, political philosophy, and popular culture. Intended for students who desire a professional level of reading proficiency in the topic areas listed. Supplementary work on oral comprehension. One hour per week devoted to discussion of television and reading.

*Note:* See sectioning note above. Conducted largely in English.

*Prerequisite:* Slavic 101 or permission of instructor.

**Slavic 103. Advanced Russian: Reading, Composition, and Conversation**

Catalog Number: 8638

*Curt F. Woolhiser and Natalia Reed*

*Half course (fall term; repeated spring term). M., W., F., at 11 or 1; with two additional hours of speaking practice Tu., Th., at 9, 10, or 11. EXAM GROUP: 6*

Continuing work on vocabulary and grammar centering on verbs and verb government. Readings



include works by Chekhov and Dostoevsky, poetry, and film.

*Note:* See sectioning note above. Strongly recommended for students who plan to continue in Russian.

*Prerequisite:* Slavic 101 or placement at the 103 level.

### **Slavic 104. Advanced Russian: Topics in Russian Culture**

Catalog Number: 0795

*Natalia Pokrovsky*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Through readings and film, we explore Russian cultural attitudes, including the individual in society, gender roles, prestige and success, truth and falsehood, and justice and the law.

Emphasis on vocabulary building and fluency through speaking practice and written compositions. Topics to take student interests into account.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 103, 113 or permission of instructor.

### **Slavic 109. Theater Workshop**

Catalog Number: 1221

*Natalia Chirkov*

*Half course (fall term). M., W., 2–4. EXAM GROUP: 7, 8*

Intensive work on pronunciation, intonation, syntax, and vocabulary of spoken Russian using short plays of the 19th and 20th centuries as a vehicle for practice. Students prepare readings of plays and may stage one short piece. Written work to reinforce vocabulary and composition skills.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 101 or permission of instructor.

### **\*Slavic 111. Advanced Russian: Readings in Russian/Post-Soviet Studies**

Catalog Number: 1594

*Natalia Pokrovsky*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Reading and discussion of topics in the areas of history, economics, politics, and current events. Continued work on grammar and vocabulary with written exercises and compositions. TV viewing for comprehension development.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 101 and 102, Slavic 103, or placement at the level of Slavic 111/113.

### **\*Slavic 112. Advanced Russian: Russian Press and Television**

Catalog Number: 3290

*Natalia Pokrovsky*

*Half course (spring term). M., W., F., at 1, with an additional hour of TV viewing to be arranged. EXAM GROUP: 6*

For students who already have experience reading Russian periodicals. Readings in and analysis of current topics and their presentation in the Russian press. Examination of the history of selected periodicals. Viewing of Russian news programs and analysis of language and content. Class conducted largely in Russian.



*Note:* See sectioning note above.

*Prerequisite:* Slavic 102 plus an additional course at the level of Slavic 101 or above, or Slavic 111.

### **Slavic 113. Advanced Russian: Readings in Russian Literature I**

Catalog Number: 0955

*Natalia Pokrovsky*

*Half course (fall term). M., W., F., at 1, and an additional hour to be arranged. EXAM GROUP: 6*

Reading and discussion of classic and contemporary Russian literature. Continued work on vocabulary expansion and composition. Written exercises for reinforcement. Readings from authors such as Gogol, Chekhov, Bulgakov, Pasternak, Brodsky, and Bitov.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 103 or 104 or placement at this level or above.

### **[Slavic 114. Advanced Russian: Readings in Russian Literature II]**

Catalog Number: 1317

*Natalia Reed*

*Half course (spring term). Hours to be arranged.*

Readings in Russian 19th- and 20th-century prose, works to be chosen in consultation with students. Continuing work on reading comprehension and discussion. Emphasis on vocabulary building and fluency through speaking practice and written compositions.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Slavic 104, 111, 113, or permission of the instructor.

### **[Slavic 116. Stylistics]**

Catalog Number: 3480

*Vladimir Y. Gitin*

*Half course (spring term). Hours to be arranged.*

Examines different styles, identifies features in texts of different kinds, and interprets passages in literary texts used for stylistic effect. Writing exercises will focus on neutral style, vocabulary development, and phrasing. Intended for students who need a practical command of style and register in reading, speaking, and writing.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Slavic 121.

### **Slavic 118. Readings in Russian Poetry**

Catalog Number: 5356

*Vladimir Y. Gitin*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Analysis of selections from Russian poetry from the point of view of language, poetic context, and literary tradition. Selections take interests of students into account.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 121.



**\*Slavic 119. Contemporary Issues: Nationalities of the Former Soviet Union**

Catalog Number: 0636

*Curt F. Woolhiser*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

The former Soviet Union as a multinational state, seen in its historical development and in the light of recent events. Questions of national identity and their political and academic consequences. Introduction to related demographic issues. Reading, discussion, composition, and supplementary written work, as needed.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 104, 111, 112, 117, or permission of the instructor.

**\*Slavic 120r. Supervised Readings in Advanced Russian**

Catalog Number: 7121

*Natalia Reed and members of the Department*

*Half course (fall term; repeated spring term). Spring: Tu., Th., at 12. EXAM GROUP: Spring: 14*

Intended for students who have already taken other department offerings. Reading, discussion, and writing on special topics not addressed in other courses. Conducted as a tutorial. Requires a course proposal to apply; acceptance is not automatic.

*Note:* See sectioning note above. Interested students should contact Natalia Reed before the first day of class to apply. No applications accepted after the third day of classes.

**Slavic 121. Advanced Russian: Reading Literary Texts**

Catalog Number: 4812

*Vladimir Y. Gitin*

*Half course (fall term). W., F., at 12, Tu., 2–4. EXAM GROUP: 5, 16, 17*

A course designed to further develop students' sensitivity to the reading of literary texts. Topics include the nature of lexical meaning including meaning associations, syntactic meaning, aspects of morphology, word order and intonation, and colloquial language. Texts include both prose and poetry.

*Note:* Primarily for graduate students in the Slavic Department. See sectioning note above.

*Prerequisite:* Slavic 103 or placement at this level or above.

***Slavic Literature, Culture, and Philology***

***Primarily for Undergraduates***

**\*Slavic 91r. Supervised Reading and Research**

Catalog Number: 2713

*Joanna Nizynska and others*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* A graded course. Permission must be obtained from the Director of Undergraduate Studies and the instructor under whom the student wishes to study.

**\*Slavic 96. Tutorial — Sophomore Year**

Catalog Number: 4728



*Joanna Nizynska*

*Half course (spring term). W., 2–4.*

*Note:* For concentrators in Russian Literature and Culture.

**\*Slavic 97. Tutorial — Sophomore Year**

Catalog Number: 7595

*Joanna Nizynska and others*

*Full course. W., 2–4.*

*Note:* For concentrators in Russian Studies.

**\*Slavic 98. Tutorial—Junior Year**

Catalog Number: 1684

*Stephanie Sandler (fall term) and Justin Weir (spring term)*

*Full course. Fall: Tu., 2–4; Spring: Th., 2–5.*

*Note:* Required of junior concentrators in Russian Literature and Culture. Other students may enroll for one or both terms.

**\*Slavic 99r. Tutorial — Senior Year**

Catalog Number: 5592

*Joanna Nizynska and others*

*Full course. Hours to be arranged.*

*Note:* May be divided upon petition. Students who wish to enroll must obtain the signature of the Director of Undergraduate Studies. If, for any reason, students do not submit an honors thesis, they must hand in a special course paper in order to receive credit for Slavic 99 in the spring term.

***Cross-listed Courses***

**\*Freshman Seminar 30z. From Russia with Love**

**\*Freshman Seminar 37t. Poems, Films, States of Mind**

**\*Freshman Seminar 38s. What Are Poets For? Poetry and Its Function**

***For Undergraduates and Graduates***

**[Slavic 125. Modern Russian in Historical Perspective]**

Catalog Number: 5646

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*Half course (spring term). Hours to be arranged.*

Analysis of the irregularities of modern Russian orthography, phonology, morphology, and syntax in light of historical development.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Slavic B, Bab, or placement at the third-year level.

**Slavic 126a. Structure of Modern Russian: Phonology and Morphology**

Catalog Number: 3083

*Daniela S. Hristova (University of Chicago)*



*Half course (spring term). Tu., 10–12. EXAM GROUP: 12, 13*

Introduction to Russian phonetics, phonemics, morphophonemics, and inflectional and derivational morphology. Course goal is to give a deeper understanding and appreciation of the regularities and complexities of Russian through a close study of its sounds and words.

*Prerequisite:* Slavic B, Bab or placement at the third-year level. No knowledge of linguistics required.

### **Slavic 131. Fantasy and the Czech Novel**

Catalog Number: 2951

*Peter A. Zusi*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Examines the interaction between fantasy genres and sociopolitical forces in the modernist novel of Central Europe. Particular attention to the changing uses of experimental, realist, and comic traditions within “minor literatures.” Writers include Kafka, Schulz, Capek, L. Klíma, and Gombrowicz, as well as some films and animation.

*Note:* All readings in English.

### **[Slavic 137. Prague Between Two Empires: Czech Culture from 1914 to 1948]**

Catalog Number: 9805

*Jonathan H. Bolton*

*Half course (fall term). Hours to be arranged.*

Introduction to Czech literature and culture, focusing on interwar renaissance and Nazi occupation from 1939 to 1945. Includes works by Hasek, Kafka, Capek, Ladislav Klíma, Olbracht, Seifert, Nezval, Jiri Langer, and others who negotiated between the demands of aesthetics and politics, articulating a Czechoslovak identity while participating in the main currents of European modernism (from dadaism and expressionism through surrealism and existentialism).

*Note:* Expected to be given in 2006–07. All readings in English. No prior knowledge of Czech literature or history is necessary.

### **[Slavic 139 (formerly \*Freshman Seminar 34s). Literature and Politics in Prague: Czech Culture from 1948 to the Present]**

Catalog Number: 9695

*Jonathan H. Bolton*

*Half course (spring term). Hours to be arranged.*

Introduction to Czech literature, film, and culture since the Communist coup in 1948, focusing on the complicated negotiations between artists and the regimes trying to control them. Readings from Kundera, Havel, Hrabal, Skvorecky, Kanturkova, Fischerova, Bouckova, and others.

Topics include legal and illegal literary institutions (censorship, writers’ unions, literary magazines, samizdat); official, underground, and exile writers; the dissidents and the Velvet Revolution; and the ways writers have understood the experience of political freedom after 1989.

*Note:* Expected to be given in 2007–08. All readings in English. No prior knowledge of Czech literature or history is necessary. Students who wish to read Czech texts in the original may arrange a special section with the instructor.





**[Slavic 140. 18th-Century Russian Literature: Conference Course]**

Catalog Number: 6495

*Julie A. Buckler*

*Half course (spring term). Hours to be arranged.*

Survey of period literature emphasizing generic diversity and cultural context. Discussion of major intellectual and literary movements, cultural practices, court life, urban landscape, public and private spheres, and European models for Russian literary production.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Good reading knowledge of Russian.

**Slavic 144. Russian Cinema: Between Art and Propaganda**

Catalog Number: 2953 Enrollment: Limited to 20.

*Mikhail Iampolski (New York University)*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Examines the history of Russian cinema, focusing mainly on principle periods, artists, and works, situating them within the context of Russian cultural history. Introduces important achievements, artistic innovations, and peculiarities of Soviet culture; relations between revolutionary art and totalitarian power, between popular and commercial culture; and the “art of propaganda.” Artists discussed include Eisenstein, Vertov, Room, Kuleshov, Bauer, Barnet, Kozintsev and Trauberg, and Tarkovsky.

*Note:* All readings in English.

**Slavic 145a. Russian Literature in Translation: The 19th-Century Tradition**

Catalog Number: 5191

*Polina Rikoun*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

A survey of major works, chiefly fiction, from Pushkin through Dostoevsky, Tolstoy, and Chekhov.

*Note:* All readings in English.

**[Slavic 145b. Russian Literature and Revolution]**

Catalog Number: 6663

*Justin Weir*

*Half course (spring term). Hours to be arranged.*

Examines the 20th-century Russian literary tradition and its attempts alternately to inspire, record, and undermine the great social upheaval of October 1917. Considers a broad range of modernist literary genres and movements and the official aesthetics of socialist realism. Works by Babel, Bely, Blok, Bulgakov, Gorky, Kataev, Kharms, Mandelshtam, Mayakovsky, Nabokov, Olesha, Pasternak, Platonov, and Solzhenitsyn.

*Note:* Expected to be given in 2006–07. All readings in English.

**Slavic 146. Nineteenth-Century Russian Intellectual History**

Catalog Number: 2956

*Igor V. Nemirovsky (Institute of Russian Literature, St. Petersburg)*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Russia’s national destiny, its self-image and its views of human nature in literary and



philosophical texts. The public and confessional movements, the rise of national self-consciousness, utopianism and nihilism, women's emancipation.

*Note:* All readings in English.

**[Slavic 148. Strange Russian Writers]**

Catalog Number: 7101

*Stephanie Sandler*

*Half course (fall term). Hours to be arranged.*

Studies tales of rebels, deviants, dissidents, loners, and losers. Mostly fictional texts, with some memoir and poetry, by writers whose projected self-image is self-consciously idiosyncratic, if not bizarre. Includes works by Gogol, Dostoevsky, Leskov, Kharms, Platonov, Nabokov, Sinyavsky, Petrushevskaya, Brodsky. The goal is less to construct a canon of strangeness than to consider how estranged women, men, animals, and objects become the center of narrative or poetic attention.

*Note:* Expected to be given in 2006–07. All readings in English.

**[Slavic 150. One Writer ]**

Catalog Number: 7644

*John E. Malmstad*

*Half course (spring term). Hours to be arranged.*

Topic for 2004-05: The Short Prose Fiction of Nikolai Gogol. Primary emphasis on close reading with some attention to the development of the critical legacy.

*Note:* Expected to be given in 2006–07. Readings in Russian, discussion in English.

*Prerequisite:* Slavic 101 or its equivalent, and above.

**Slavic 153. Short Russian Prose**

Catalog Number: 1743

*John E. Malmstad*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Readings in Russian short forms from Gogol to Nabokov. Primary emphasis on close reading.

*Note:* Readings in Russian, discussion in English.

*Prerequisite:* Slavic 101 or its equivalent, and above.

**[Slavic 155. Dostoevsky]**

Catalog Number: 6850 Enrollment: Limited to 20.

*William Mills Todd III*

*Half course (fall term). Hours to be arranged.*

Reading of Dostoevsky's major works, with a view to showing how the problems they contain (social, psychological, political, metaphysical) are inseparable not only from his time but from the distinctive novelistic form he created.

*Note:* Expected to be given in 2006–07. No knowledge of Russian required.

**Slavic 156. Vladimir Nabokov: A Cross-Cultural Perspective**

Catalog Number: 8650

*Svetlana Boym*

*Half course (spring term). W., 2–4;. EXAM GROUP: 7, 8*



Examines Nabokov's poetry, fiction, film scripts, and essays from Russian, European and American periods. Attention to issues of literary modernism, cultural translation and memory. Additional readings from Chekhov, Proust, Bergson, Borges, and others.

### Slavic 157. Tolstoy

Catalog Number: 2005

*Justin Weir*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Tolstoy's development as a writer and thinker, beginning with his early diaries and progressing through the great novels, *War and Peace* and *Anna Karenina*, to the late stories and plays. Examines Tolstoy's work in light of recent critical approaches to authorship, artistic biography, literary canon, 19th-century notions of sexuality and morality. How has Tolstoy been variously interpreted in Russian, Soviet, and Western-humanistic contexts? How did Tolstoy view his own work at various points in his life?

*Note:* No knowledge of Russian required.

### Slavic 158. Women/Poets

Catalog Number: 3895

*Joanna Nizynska and Stephanie Sandler*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

How have twentieth-century women changed poetry? How have they found new readers? Concentrates on Russian, Polish, and American poets, among them Akhmatova, Tsvetaeva, Shvarts, Lipska, Kamienska, Szymborska, Plath, Graham, Dove, Howe, Guest. Explores their acts of self-fashioning and linguistic performance, and the forms of staged reticence and resistance in their work. Attention to feminist and other theory, with an emphasis on connections among national cultures.

*Note:* All texts available in English translation.

### **[Slavic 165. Survey of 19th-Century Ukrainian Literature ]**

Catalog Number: 0410

*George G. Grabowicz*

*Half course (fall term). Hours to be arranged.*

An introduction to Ukrainian literary and intellectual culture, from pre-Romanticism to Modernism. Readings from Kotljarevs'kyj, Shevchenko, Kulish, Drahomanov, Franko, Lesja Ukrajinka, Kociubyns'kyj, and Stefanyk.

*Note:* Expected to be given in 2006–07. No knowledge of Ukrainian required.

### Slavic 166. Russian-Ukrainian Literary Relations in the 19th Century: Conference Course

Catalog Number: 3513

*George G. Grabowicz*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Examines Russian-Ukrainian literary relations from 1798 to 1905, with special focus on canon formation, ethnic, national and imperial identity, and the interrelation of literature, society, and ideology. Topics include Decembrist historicism, Romantic poetics and folklore, Slavophilism and populism, literature as subversion (kotljarevshchyna), the uses of translation, the reception of major writers (Gogol, Shevchenko, and others), and the imperial attempt to suppress



“Ukrainophilism.”

*Prerequisite:* Reading knowledge of Russian or Ukrainian.

**[Slavic 168. Survey of 20th-Century Ukrainian Literature]**

Catalog Number: 2079

*George G. Grabowicz*

*Half course (spring term). Hours to be arranged.*

An introduction to the major writers and developments in pre-Soviet, Soviet, émigré and post-Soviet Ukrainian literature. Special focus on representative works from Mynnychenko, Tychyna, and Xvyl’ovyy, to the émigré avant-garde and the post-modernists.

*Note:* Expected to be given in 2007–08. No knowledge of Ukrainian required.

**Slavic 169. 20th-Century Ukraine: Literature, Arts, and Society**

Catalog Number: 4126

*George G. Grabowicz and Halyna Hryn*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Examines main currents in Ukrainian intellectual and cultural expression from the eve of the Russian Revolution, through the formation and dissolution of the USSR, to the "Orange Revolution" (2004). Topics include populism vs. modernism, nationalism vs. socialism, Literary Discussion of the 1920s, Stalinism, Glasnost, linguistic, and national identity. Focus on literature, film (Dovzhenko, Paradzhanov, Illienko), and theater (Kurbas); guest lectures on music and art.

*Note:* Readings in English. Films subtitled.

**[Slavic 170. Polish Literature from 1945 to the Present]**

Catalog Number: 5555

*Joanna Nizynska*

*Half course (fall term). Hours to be arranged.*

This introductory course on Polish literature and culture during the Communist and post-Communist period focuses on the interplay between literature and political ideology. Topics include private and public spaces, the "burden of Polishness," "local homelands," and the configuration of material and consumerist culture. Readings from Rozewicz, Konwicki, Milosz, Mrozek, Tokarczuk, Huelle, Tryzna, Podsiadlo, and others.

*Note:* Expected to be given in 2007–08. Readings in English. Students who wish to work in the Polish original may arrange a special section with the instructor.

**Slavic 171. Russian-American Reelism: Chekhov, Stanislavsky, and Hollywood Film Acting**

Catalog Number: 3253

*Cole M. Crittenden*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

Examines the Russian roots of Hollywood film acting. Includes Chekhov’s major plays and Stanislavsky’s system of acting them, and traces the influence of this artistic synthesis in America, first in New York theater and then in Hollywood films, where “method” acting still dominates.

*Note:* All readings in English.



**[Slavic 174. Romantic Word, Romantic Deed: Conference Course]**

Catalog Number: 1188

Joanna Nizynska

*Half course (fall term). Hours to be arranged.*

Were Romantic writers fashioning new identities—or compensating for political failures? How did redemptive narratives of such Polish writers as Mickiewicz and Slowacki shape the national identity of their readers? Focuses on Romantic literature's complex aspirations to social, political, and historical critique and explores how the national idiosyncrasies of Polish Romantic literature reflected (and clashed with) the larger philosophical and aesthetic principles of the era proposed by Kant, Hegel, Athenaeum, Wordsworth, Byron, and Coleridge.

*Note:* Expected to be given in 2006–07. All readings in English. Student who wish to work in the Polish original may arrange a special section with the instructor.

**[Slavic 175. Romantic Anxieties: Legacy of Romanticism in Polish Poetry]**

Catalog Number: 6172

Joanna Nizynska

*Half course (spring term). Hours to be arranged.*

Traces the direct and indirect responses in 20th-century Polish poetry to Poland's Romantic heritage. Explores complex modes of relating to, transforming, or rebelling against this legacy, including the Romantic view of poetry as a political force and the poet as the voice of the community. Readings from Milosz, Herbert, Baranczak, Zagajewski, and others to be analyzed vis-à-vis Poland's historical and political idiosyncrasies.

*Note:* Expected to be given in 2007–08. All readings in English. Students who wish to work in the Polish original may arrange a special section with the instructor.

**Slavic 178. Trauma: Representation, Theory, Experience: Conference Course**

Catalog Number: 9125

Joanna Nizynska

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Can literature—or film—convey the experience of trauma? What are its symptoms and what do such different experiences as psychological abuse and the Holocaust share that lets them both be called trauma? Texts from Borowski, Chwin, Caruth, Celan, Freud, LaCapra, Vonnegut and films by Polanski and Kieslowski help us consider the complexities of historical and structural trauma, the transposition of the traumatic into narrative, and the formation of individual and cultural memory.

*Note:* All readings in English translation. All films subtitled.

**[Slavic 180. Russian Symbolist Poetry]**

Catalog Number: 6333

John E. Malmstad

*Half course (fall term). Hours to be arranged.*

An introduction to the major figures and concerns of the Russian Symbolist movement. Concentration on poetry, but with attention to other genres (fiction, drama, and essays).

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Slavic 101 or an equivalent acceptable to instructor.



### **Slavic 181. Russian Poetry of the 19th Century**

Catalog Number: 3307

*John E. Malmstad*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

The major themes and modes of Russian poetry from pre-Romanticism to “pure art.” Selections from Zhukovsky, Batiushkov, Baratynsky, Yazykov, Lermontov, Tiutchev, Nekrasov, Fet, and others.

*Prerequisite:* Slavic 101 or an equivalent acceptable to instructor.

### **[Slavic 182. Problems in 20th-Century Poetry: Conference Course]**

Catalog Number: 3489

*John E. Malmstad*

*Half course (spring term). Hours to be arranged.*

An examination of the poetry and poetics of three writers—Annensky, Kuzmin, and Khodasevich—whose works raise questions about the validity and usefulness of the ways in which scholarship categorizes early 20th-century poetry in terms of “isms” like Symbolism and Acmeism.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Slavic 101 or an equivalent acceptable to the instructor.

### **Slavic 190. Central European Avant-Gardes**

Catalog Number: 2961

*Peter A. Zusi*

*Half course (fall term). Tu., 2–4.*

Surveys literary and artistic avant-gardes of Germany, Poland, Hungary, Czechoslovakia, Austria, Yugoslavia, and Romania in the period from 1910–1939. Attention to continuity and variation among the regional forms of Expressionism, Dada, Constructivism, Surrealism, etc.; and consideration of how these less familiar movements influence theoretical discussion of canonical Western trends.

*Note:* All readings in English.

### **[Slavic 192 (formerly Slavic 179). Literature as Institutions: Conference Course]**

Catalog Number: 6120 Enrollment: Limited to 15.

*William Mills Todd III*

*Half course (fall term). Hours to be arranged.*

A study of literary production, dissemination, and reception in selected periods of Russian literature from the Middle Ages to the present. Readings in social theory, cultural studies, literary criticism, and imaginative literature.

*Note:* Expected to be given in 2007–08. Open to advanced undergraduates and graduates.

Students must pick up a syllabus in Barker 374 before the term begins, as there will be a brief assignment for the first class meeting.

### **[Slavic 195. Myths of Central Europe after World War II: Conference Course]**

Catalog Number: 4701

*Jonathan H. Bolton*

*Half course (spring term). Hours to be arranged.*



For Milan Kundera, Central Europe was the kidnapped conscience of the West, for Gyorgy Konrad it was “a subversive dream,” for Josef Kroutvor a “melancholy grotesque.” Considers classic authors (Kundera, Kis, Milosz, Konwicki, Canetti, Manea) and studies key motifs and situations (war, Nazi and Soviet occupations, uprising, arrest, interrogation, dissidents, nostalgia for Austria-Hungary) that have defined a “Central European” literature and identity in Austria, Czechoslovakia, Poland, Hungary, Romania, and Yugoslavia since World War II.

*Note:* Expected to be given in 2006–07. All readings in English.

### ***Cross-listed Courses***

**[Comparative Literature 160. Literary Forgeries and Mystifications]**

**[Comparative Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course](#)**

**[Foreign Cultures 72. Russian Culture from Revolution to Perestroika]**

**[Linguistics 110. Introduction to Linguistics](#)**

**[\\*Literature 128. Performing Texts](#)**

**[Literature and Arts A-45. Theories of Authorship: Russian Case Studies]**

**[Literature and Arts C-30. How and What Russia Learned to Read: The Rise of Russian Literary Culture]**

**[Literature and Arts C-50. Russian Imperial Masterworks and Their Post-Histories](#)**

**[Literature and Arts C-51. Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde](#)**

**[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts](#)**

### ***Primarily for Graduates***

**[Slavic 201. Introduction to East Slavic Languages](#)**

Catalog Number: 5134

*Daniela S. Hristova (University of Chicago)*

*Half course (spring term). M., 10–1. EXAM GROUP: 3, 4, 5*

Introduction to the structure and history of Russian, Ukrainian, and Belarusian.

*Prerequisite:* Linguistics 250.

**[Slavic 202. Introduction to West Slavic Languages]**

Catalog Number: 6877

*Michael S. Flier*

*Half course (fall term). Hours to be arranged.*

Introduction to the structure and history of Czech, Polish, Slovak, and Sorbian.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Linguistics 250. Reading knowledge of a West Slavic language desirable.

**[Slavic 203. Introduction to South Slavic Languages]**

Catalog Number: 1665

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*Half course (spring term). Hours to be arranged.*

Introduction to the structure and history of Slovene, Croatian, Serbian, Macedonian, and





Bulgarian.

*Note:* Expected to be given in 2007–08. Reading knowledge of a South Slavic language desirable.

*Prerequisite:* Linguistics 250.

**Slavic 223. 19th-Century Ukrainian Poetry**

Catalog Number: 2097

*George G. Grabowicz*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A survey of the major poets: Kotljarevs'kyj, Hulak and the pre-Romantics, Shevchenko, Kulish, Rudans'kyj, Franko, and Lesja Ukrajinka.

*Prerequisite:* Reading knowledge of Ukrainian.

**[Slavic 269. Structure of Russian for Instructors]**

Catalog Number: 7807

*Patricia R. Chaput*

*Half course (fall term). Hours to be arranged.*

Survey of the structures and rules of Russian from the viewpoint of the instructor. Linguistic description, translation into pedagogical form, formulation at different levels of study, questions of usage, changing norms. Includes practice in difficult constructions.

*Note:* Expected to be given in 2006–07.

**Slavic 280r. Slavic Culture: Seminar**

Catalog Number: 1909

*Michael S. Flier*

*Half course (spring term). Th., 10–12. EXAM GROUP: 12, 13*

Topic for 2005-06: The Culture of Medieval Rus': Art, architecture, ritual, literature.

**[Slavic 281. Literature, Film, and Visual Arts in Russia, 1920-1930]**

Catalog Number: 1058

*Svetlana Boym*

*Half course (fall term). Hours to be arranged.*

Examines poetry, prose and visual arts together with cultural theory. Explores issues of innovation and cultural memory, art and politics, bilingualism and exile. Works by Mayakovsky, Malevich, Mandelshtam, Tsvetaeva, Babel, Shklovsky, Nabokov, Vertov, and Eisenstein.

*Note:* Expected to be given in 2006–07. Most texts available in English. Open to qualified undergraduates.

*Prerequisite:* Reading knowledge of Russian.

**[Slavic 282 (formerly Slavic 141). Literature, Film, and Visual Art in Contemporary Russia]**

Catalog Number: 1286

*Svetlana Boym*

*Half course (spring term). Hours to be arranged.*

Examines the culture of the post-Stalinist period from Socialist realism to post-communism.

Works of literature, film, visual art are discussed together with cultural theory. Topics: rewriting



of history, utopia and kitsch, unofficial art and mass culture.

*Note:* Expected to be given in 2006–07. Most materials also available in English. Open to qualified undergraduates.

*Prerequisite:* Reading knowledge of Russian.

**Slavic 285r. Modern Russian Literature: Seminar**

Catalog Number: 5182

*John E. Malmstad*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Topic for 2005–06: The culture of Russian avant-garde.

*Prerequisite:* Slavic 101 or an equivalent acceptable to the instructor.

**[Slavic 287. Poetic Self-Creation in 20th-Century Russia: Seminar]**

Catalog Number: 8028

*Stephanie Sandler*

*Half course (spring term). Hours to be arranged.*

Examines how poems create self-images for poets working in and after Russian modernism, including Khlebnikov, Mandel'shtam, Tsvetaeva, Zabolotskii, Petrovykh, Brodsky, Sedakova, Shvarts, Iskrenko, Zhdanov, and Dragomoshchenko. Relies on literary and psychoanalytic theories of identity.

*Note:* Expected to be given in 2006–07. Open to qualified undergraduates with permission of instructor.

*Prerequisite:* Reading knowledge of Russian required.

**[Slavic 288. Sex, Self, and Russia: Conference Course]**

Catalog Number: 0106

*Stephanie Sandler*

*Half course (spring term). Hours to be arranged.*

Explores ideas of sexuality, identity, and desire in the cultural debates and creative psyches of modern Russian literary figures and filmmakers. Also serves as an introduction to feminist and psychoanalytic approaches to culture.

*Note:* Expected to be given in 2008–09. Open to qualified undergraduates.

*Prerequisite:* Slavic 101 or its equivalent.

**[Slavic 291. Problems in the History of Early Ukrainian Literature]**

Catalog Number: 0643

*George G. Grabowicz*

*Half course (spring term). Hours to be arranged.*

Examines Kievan and early Ukrainian literature. Topics include the system of genres of Kievan literature, the Renaissance and interaction with Polish literature, the confraternities, Vyshens'kyj, the Baroque, the Mohyla Academy, Skovoroda.

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Reading knowledge of Ukrainian.

**[Slavic 292. 20th-Century Ukrainian Prose]**

Catalog Number: 5733



*George G. Grabowicz*

*Half course (spring term). Hours to be arranged.*

A survey of Ukrainian prose focusing on the avant-garde of the 1920s-1940s (Khvyl'ovyy, Johansen, Domontovych, Kosach) and the most recent period (Andijevs'ka, Andrukhovych, Izdryk and others).

*Note:* Expected to be given in 2007–08.

*Prerequisite:* Reading knowledge of Ukrainian.

**Slavic 295. The Language of Medieval Novgorod: Seminar**

Catalog Number: 3912

*Michael S. Flier*

*Half course (fall term). M., 10–12. EXAM GROUP: 3, 4*

Consideration of the phonological, morphological, syntactic, and lexical peculiarities of the Old Novgorod dialect in light of the historical development of East and West Slavic. Particular attention to the evidence from the Novgorod birchbark documents (11th–15th centuries).

*Prerequisite:* Linguistics 250, 252, and Slavic 201.

**[Slavic 296r. Slavic Linguistics: Seminar]**

Catalog Number: 5196

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*Half course (spring term). Hours to be arranged.*

Topic for 2004-05: Comparative Slavic Morphosyntax. Covers important issues in Slavic morphosyntax, including case, word order, interpretive effects, negation, interrogativity, indefiniteness, WH-movement, anaphora, null subjects, predication, and voice. Compares Slavic behavior to behavior of non-Slavic languages.

*Note:* Expected to be given in 2006–07. Students are expected to choose a Slavic language and present data relating to the given topic.

*Prerequisite:* Linguistics 112a or its equivalent (112b preferred) or permission of instructor. Knowledge of a Slavic language helpful but not required.

**\*Slavic 299. Proseminar**

Catalog Number: 7972

*Julie A. Buckler*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Introduction to graduate study in Slavic. Selected topics in literary analysis, history, and theory.

*Note:* Open to qualified undergraduates with permission of the instructor.

***Cross-listed Courses***

**[\*Comparative Literature 261. Memory and Modernity: Seminar]**

**\*Comparative Literature 262. Aesthetics and Freedom**

**Comparative Literature 273. Approaches to Modernity: The Metropolis**

**[Comparative Literature 275. Theory of Narrative: Conference Course]**

**Linguistics 250. Old Church Slavonic**

**[Linguistics 252. Comparative Slavic Linguistics]**



### ***Graduate Courses of Reading and Research***

#### **\*Slavic 300. Direction of Doctoral Dissertations**

Catalog Number: 4477

*Jonathan H. Bolton 4892 (on leave 2005-06), Svetlana Boym 1926, Julie A. Buckler 2960, Patricia R. Chaput 6222 (on leave 2005-06), Michael S. Flier 2878, George G. Grabowicz 4511, John E. Malmstad 1219, Joanna Nizynska 4891, Stephanie Sandler 1343, William Mills Todd III 1634 (on leave 2005-06), and Justin Weir 3407 (on leave fall term)*

#### **\*Slavic 301. Reading and Research**

Catalog Number: 3385

*Jonathan H. Bolton 4892 (on leave 2005-06), Svetlana Boym 1926, Julie A. Buckler 2960, Patricia R. Chaput 6222 (on leave 2005-06), Michael S. Flier 2878, George G. Grabowicz 4511, John E. Malmstad 1219, Joanna Nizynska 4891, Stephanie Sandler 1343, William Mills Todd III 1634 (on leave 2005-06), and Justin Weir 3407 (on leave fall term)*

*Half course (fall term; repeated spring term). Fall: M., W., at 10; Spring: M., W., F., at 8.*

#### **[\*Slavic 302. Language Teaching: Content and Conduct]**

Catalog Number: 5961

*Patricia R. Chaput 6222 (on leave 2005-06)*

*Half course (fall term). Hours to be arranged.*

Required in the first year of language teaching. Includes orientation, discussion of topics in teaching language at the college level, and supervised teaching.

*Note:* Expected to be given in 2006–07.

## Social Policy

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Committee on Higher Degrees in Social Policy***

Jeffrey B. Liebman, Professor of Public Policy (*Kennedy School*) (*Chair*)

David T. Ellwood, Lucius N. Littauer Professor of Political Economy (*Kennedy School*)

Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies (*on leave fall term*)

Torben Iversen, Harold Hitchings Burbank Professor of Political Economy (*on leave fall term*)

Christopher Jencks, Malcolm Wiener Professor of Social Policy (*Kennedy School*) (*on leave 2005-06*)

Theda Skocpol, Victor S. Thomas Professor of Government and Sociology and Dean of the Graduate School of Arts and Sciences



William Julius Wilson, Lewis F. and Linda L. Geyser University Professor  
Christopher Winship, Diker-Tishman Professor of Sociology

***Other Faculty Offering Instruction in Social Policy***

Mary C. Brinton, Reischauer Institute Professor of Sociology  
Peter A. Hall, Krupp Foundation Professor of European Studies  
Michèle Lamont, Professor of Sociology (*on leave fall term*)  
Robert J. Sampson, Henry Ford II Professor of the Social Sciences  
Mary C. Waters, Professor of Sociology (*on leave 2005-06*)  
Martin K. Whyte, Professor of Sociology (*on leave spring term*)  
Julie Boatright Wilson, Harry S. Kahn Senior Lecturer on Social Policy (*Kennedy School*)

This program awards two different degrees: the PhD in Government and Social Policy and the PhD in Sociology and Social Policy. Both of these programs are joint degrees that provide students a thorough grounding in one of these two traditional disciplines and then move them into a series of interdisciplinary seminars on social policy based at the Kennedy School of Government. Students submit applications for admission to the Committee on Higher Degrees in Social Policy, which must be accepted as well by the admissions committee of either the Department of Government or the Department of Sociology. From the very beginning of their graduate careers, then, students are taught and supervised by faculty from government, sociology and the Malcolm Wiener Center for Social Policy in the Kennedy School.

This degree is intended for students who have central interests in problems of economic inequality; segregation; poverty; changing family structure; immigration, race, and labor market segmentation; educational inequality; and historical and comparative studies of inequality in the US and abroad (especially Western Europe). It will be of particular interest for students who wish to combine solid training in the fundamental theoretical perspectives and methodological traditions of either government or sociology with advanced study of policy responses to these social problems. Students who would like the flexibility to pursue careers in departments of sociology or government, in schools of public policy, and in policy and other non-profit organizations may find these joint degrees especially suitable.

Students in the joint degree programs are eligible to apply for the Multidisciplinary Program on Inequality and Social Policy at the end of their first year of study. This training and fellowship program provides for summer institutes, research apprenticeships, and a variety of other opportunities. Please see the website [www.ksg.harvard.edu/inequality](http://www.ksg.harvard.edu/inequality) for more details.

Applications for admission to the PhD programs in Social Policy may be obtained from the Graduate School of Arts and Sciences, Admissions Office, Byerly Hall, 2nd Floor, 8 Garden Street, Cambridge, MA 02138. Further information about the joint degree programs may be obtained from the program website ([www.ksg.harvard.edu/socialpol](http://www.ksg.harvard.edu/socialpol)). Questions or requests for additional printed materials should be directed to Pamela Metz, Director, via e-mail ([socialpolicy@harvard.edu](mailto:socialpolicy@harvard.edu)) or correspondence addressed to her attention at the Kennedy School of Government, 79 John F. Kennedy Street, Cambridge, MA 02138.



### ***Graduate Courses of Reading and Research***

#### **\*Social Policy 300. Reading and Research**

Catalog Number: 6290

*Members of the Committee*

#### **\*Social Policy 301. Research and Social Policy Seminar**

Catalog Number: 3704

*Robert J. Sampson 4546*

*Half course (fall term; repeated spring term). M., 3–4:30.*

Presentation of dissertation prospectus or chapters-in-progress in a seminar/workshop format.

Required of doctoral candidates in Social Policy.

#### **\*Social Policy 302. Doctoral Dissertation Research**

Catalog Number: 9707

*Members of the Committee*

### ***Cross-listed Courses***

**[\\*Government 2340. Proseminar on Inequality and Social Policy II](#)**

**[\\*Sociology 296a. Proseminar on Inequality and Social Policy I](#)**

**\*Sociology 307. Workshop on Inequality and Social Policy III**

## Social Studies

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### ***Faculty of the Committee on Degrees in Social Studies***

Grzegorz Ekiert, Professor of Government (*Chair*)

David R. Armitage, Professor of History

Anya Bernstein, Lecturer on Social Studies (*Director of Studies*)

Mariko Chang, Associate Professor of Sociology and of Social Studies (*on leave fall term*)

John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs

Richard N. Cooper, Maurits C. Boas Professor of International Economics

Kimberly McClain DaCosta, Assistant Professor of African and African American Studies and of Social Studies

Peter E. Gordon, Professor of History (*on leave 2005-06*)

Peter A. Hall, Krupp Foundation Professor of European Studies



Michael Herzfeld, Professor of Anthropology  
 Michael J. Hiscox, Professor of Government  
 Engseng Ho, Frederick S. Danzinger Associate Professor of Anthropology and of Social Studies  
 Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor (*on leave spring term*)  
 James T. Kloppenberg, Harvard College Professor and David Woods Kemper '41 Professor of American History  
 Michael R. Kremer, Gates Professor of Developing Societies (*on leave 2005-06*)  
 Michèle Lamont, Professor of Sociology (*on leave fall term*)  
 Steven R. Levitsky, John L. Loeb Associate Professor of the Social Sciences  
 Charles S. Maier, Leverett Saltonstall Professor of History  
 Peter V. Marsden, Professor of Sociology  
 Jens Meierhenrich, Assistant Professor of Government and of Social Studies, Temporary OT Eligible (*on leave spring term*)  
 Glyn Morgan, Associate Professor of Government and of Social Studies  
 Elizabeth J. Perry, Henry Rosovsky Professor of Government (*on leave spring term*)  
 Nancy Lipton Rosenblum, Senator Joseph S. Clark Professorship of Ethics in Politics and Government  
 Michael J. Sandel, Anne T. and Robert M. Bass Professor of Government  
 Matthias Schündeln, Assistant Professor of Economics and of Social Studies  
 Tommie Shelby, John L. Loeb Associate Professor of the Social Sciences (*on leave 2005-06*)  
 Mary M. Steedly, Professor of Anthropology  
 Ajantha Subramanian, Assistant Professor of Anthropology and of Social Studies (*on leave 2005-06*)  
 Christopher Winship, Diker-Tishman Professor of Sociology  
 Daniel F. Ziblatt, Assistant Professor of Government and of Social Studies (*on leave 2005-06*)

***Other Faculty Offering Instruction in Social Studies***

Kiku Adatto, Lecturer on Social Studies  
 Terry K. Aladjem, Lecturer on Social Studies  
 Sadhana Bery, Lecturer on Social Studies  
 Dawn M. Brancati, Lecturer on Social Studies  
 Oona Britt Ceder, Lecturer on Social Studies  
 Katherine K. Chen, Lecturer on Social Studies  
 Sarah Dix, Lecturer on Social Studies  
 Jonathan R. Eastwood, Lecturer on Social Studies  
 Marshall L. Ganz, Lecturer on Social Studies  
 Jonathan M. Hansen, Visiting Lecturer on Social Studies (*Boston University*)  
 Theodore MacDonald, Lecturer on Social Studies  
 Stephen A. Marglin, Walter S. Barker Professor of Economics  
 David J. Meskill, Lecturer on Social Studies  
 Tamara Metz, Lecturer on Social Studies and on Government  
 Vasiliki Neofotistos, Lecturer on Social Studies  
 Nicole D. Newendorp, Lecturer on Social Studies  
 Chad Elliott Noyes, Lecturer on Social Studies  
 Lesley Noel Nye, Lecturer on Social Studies





Amelie Rorty, Visiting Professor of Social Studies (*Yale University*)  
Fred C. Schaffer, Lecturer on Social Studies  
David G. Stevenson, Assistant Professor of Health Policy (*Medical School*)  
Maureen E. Sullivan, Visiting Assistant Professor of Social Studies (*Northern Illinois University*)  
Adam Webb, Lecturer on Social Studies  
David M. Woodruff, Lecturer on Social Studies and on Government  
Kathrin S. Zippel, Visiting Assistant Professor of Social Studies (*Northeastern University*)

***Primarily for Undergraduates***

**\*Social Studies 10. Introduction to Social Studies**

Catalog Number: 5278

*Glyn Morgan and staff*

*Full course. Tu., 2–4, and a weekly section to be arranged. EXAM GROUP: 16, 17*

An intensive introduction to classic texts in modern social theory. Through these foundational texts, we examine different models of social explanation, methodological debates in the social sciences, competing accounts of the origin and nature of modern society, and some of the normative questions that arise when we reflect systematically on the consequences of modernity. Readings will come from Smith, Marx, Tocqueville, Mill, Weber, Durkheim, Freud, Beauvoir, Foucault, and Habermas.

*Note:* Lectures and sections limited to and required of first-year concentrators in Social Studies.

**\*Social Studies 20. Statistics for Social Studies**

Catalog Number: 3643

*Mariko Chang*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

An introduction to basic research methods and statistics designed primarily for concentrators in Social Studies. No previous background in statistics is required. Assists students in developing the skills to understand statistical methods used in social science research and to conduct quantitative analyses that address research questions. Also prepares students to do quantitative research for projects such as senior honors essays.

**\*Social Studies 30. Methods of Social Science Inquiry**

Catalog Number: 1054 Enrollment: Limited to 40.

*Kimberly McClain DaCosta*

*Half course (spring term). W., 2–4, and a weekly section to be arranged. EXAM GROUP: 7, 8*

This course introduces students to research as practiced across the social sciences and is especially designed for juniors who plan to write senior theses. Students will learn to formulate research questions, develop research designs, and bring evidence to bear on their own research questions. Students will write-up a research prospectus for their senior thesis, complete with preliminary findings and avenues for future research.

**\*Social Studies 91r. Supervised Reading and Research**

Catalog Number: 9855

*Anya Bernstein and members of the Committee*



*Half course (fall term; repeated spring term). Hours to be arranged.*

Individual work in Social Studies on a topic not covered by regular courses of instruction.  
Permission of the Director of Studies required.

**\*Social Studies 99. Tutorial — Senior Year**

Catalog Number: 7501

*Anya Bernstein and staff*

*Full course. Hours to be arranged.*

Writing of senior honors essay.

*Note:* Required for concentrators.

***Social Studies 98 — Junior Tutorials: Fall Term***

*Note:* Concentrators must take one fall and one spring tutorial. Admission is based on student preferences and a lottery system. Undergraduate non-concentrators may enroll in these tutorials if space is available.

**\*Social Studies 98ax. Development and Modernization: A Critical Perspective**

Catalog Number: 5504

*Stephen A. Marglin*

*Half course (fall term). Hours to be arranged.*

What assumptions about human beings underlie the conviction that development and modernization constitute progress, that the developed West points the way for the rest of the world? Does economic growth involve a package that necessarily changes the society, the polity, and the culture along with the economy? This tutorial provides a framework for thinking about these questions, both in the context of the West, and in the context of the Third World.

**\*Social Studies 98cd. American Social Policy**

Catalog Number: 8657

*Anya Bernstein*

*Half course (fall term). Hours to be arranged.*

Examines social policy in the US and considers competing approaches to developing policy for the 21st century. Compares different perspectives on the nature and purpose of American social policy and explores how American culture and institutions have shaped the development of social policy throughout the 20th century. Topics include poverty and welfare, race and education, access to health care, and responsibility for children and the elderly.

**\*Social Studies 98dx. Feminist Theory: Equality, Identity, Difference**

Catalog Number: 3055

*Oona Britt Ceder*

*Half course (fall term). Hours to be arranged.*

Course examines main currents of feminist thought. Readings include theories from the Western tradition (e.g., Wollstonecraft, Mill, de Beauvoir), and works by writers who reject the methods of canonical thought and develop oppositional forms of theorizing (e.g., Audre Lorde, Mary Daly, Gloria Anzaldua). Both modernist and poststructuralist approaches considered. Through



analysis, students acquire an understanding of the relationship between feminist theories and activism and major traditions of social and political critique.

**\*Social Studies 98ea. Conflict and Cooperation in International Politics**

Catalog Number: 0554

*Michael J. Hiscox*

*Half course (fall term). Hours to be arranged.*

Examines sources of conflict and cooperation among nations in the current international system. Issues covered include the origins and effects of alliances, deterrence, the impact of democratization, the effects of economic interdependence, environmental problems, ethnic conflict, and cultural divisions in world politics.

**\*Social Studies 98eo. Culture and Society**

Catalog Number: 2114

*Kiku Adatto*

*Half course (fall term). Hours to be arranged.*

In what sense is art a mirror of society? How do literature, advertisements, and film document cultural change? How is culture tied to power, domination, and resistance? Using a wide range of sources and case studies, this seminar examines the interplay of culture and society (drawing on anthropology, history, sociology, literature, and philosophy). Among the topics explored are memory making and memorials, culture domination and resistance, media and popular culture, and the culture of everyday life.

**\*Social Studies 98gb. Art and Society**

Catalog Number: 8234

*Sarah Dix*

*Half course (fall term). Hours to be arranged.*

How does art shape society? How does society shape art? This course explores how social formations encourage, restrict and debate art and culture. It examines art and cultural policy under different political regimes worldwide. It considers art support, and privatization of public culture. We look at the globalization of culture, changes in public funding, corporate buy-up of art (Microsoft) and cultural tourism (Disney). We also explore cases of art controversies and cultural conflict.

**\*Social Studies 98gf. Modernity and Social Change in East Asia**

Catalog Number: 5553

*Nicole D. Newendorp*

*Half course (fall term). Hours to be arranged.*

Examines the interconnections between modernity and social change in contemporary China, Japan, and Korea. Explores how modernity is conceptualized by both state and society actors and how these visions fuel change at local and national levels. Particular attention will be paid to issues of social protest, migration, consumption, gender, ethnicity, and family life in both rural and urban locations. Readings focus on ethnographic case studies and the effects of modernity on everyday life experience.



**\*Social Studies 98gh. Economic Development in Africa**

Catalog Number: 4564

*Matthias Schündeln*

*Half course (fall term). Hours to be arranged.*

In this course we study topics related to the process of economic development in Africa, focusing on Sub-Saharan Africa. We start with a broad economic history and discuss stylized facts about economic development in Africa. Using specific case studies, we then analyze selected current economic structures, institutions and policy challenges. Topics include poverty and inequality, health, migration, financial markets, agricultural and industrial sector development, and development policy.

**\*Social Studies 98gi. The Post-Socialist Political Economy**

Catalog Number: 4781

*David M. Woodruff*

*Half course (fall term). Hours to be arranged.*

Examines the institutional foundations of capitalism through study of political economy issues confronting post-socialist countries in Europe. Surveys the state and legal system, insertion into the international economy, the role of international institutions, financial reform and macroeconomic stabilization, privatization, and disruptive adaptations to the new order. Considers implications for theories of economic institutions and the politics of economic transformation. Many readings focus on Russia, with some coverage of Poland and the Czech Republic.

**\*Social Studies 98ha. Work and American Society**

Catalog Number: 4734

*Katherine K. Chen*

*Half course (fall term). Hours to be arranged.*

Overviews the sociological and historical research on work in America, with a focus on recent work trends and projections of future workplaces. Examines how changes in the structure and ideology of the American workplace have impacted employment experiences and careers in factories, service, and high-status professions.

**\*Social Studies 98hb. Transnational Social Theory**

Catalog Number: 9002

*Engseng Ho*

*Half course (fall term). Hours to be arranged.*

This tutorial provides theoretical and historical grounding for students wishing to undertake study of transnational phenomena such as empires, diasporas, globalization. We will begin with a reconsideration of some authors from SS10, where theory is framed within a single, European nation-state, and re-read them in light of phenomena such as inter-imperial warfare, cross-cultural trade, piracy and colonization, to understand the transnational conditions of production of European social theory.

**\*Social Studies 98hc. Crimes Against Humanity**

Catalog Number: 0061

*Jens Meierhenrich*



*Half course (fall term). Hours to be arranged.*

This course provides an introduction to international human rights law. Combining positive and normative perspectives, the course introduces students to the evolution of crimes against humanity, ranging from apartheid to enslavement, and from extermination to rape. The judicial application of these odious crimes, including their adjudication in both municipal and international courts—from the International Military Tribunal at Nuremberg to the Special Court for Sierra Leone—is also discussed.

**\*Social Studies 98hd. Liberalism and Its Critics**

Catalog Number: 0062

*Tamara Metz*

*Half course (fall term). Tu., 5–7 p.m. EXAM GROUP: 18*

Examines the debate between defenders of liberalism and its many critics. Focuses on contemporary liberals and their feminist, communitarian, conservative, democratic, libertarian, post-modern, and pluralist critics.

**\*Social Studies 98he. Global Social Movements**

Catalog Number: 4572

*Theodore MacDonald*

*Half course (fall term). Hours to be arranged.*

International forums and the Internet, some suggest, not only link but also shape movements such as those of environmentalists, indigenous peoples, women's groups, and critics of globalization and development projects. The tutorial will explore these new "appearances" and ask to what extent the images are new islands or old mirages on the horizon.

**\*Social Studies 98hg. The Rule of Law**

Catalog Number: 8107

*Members of the Committee*

*Half course (fall term). Hours to be arranged.*

This tutorial introduces students to twentieth-century legal theory via recent debates about the traditional ideal of "the rule of law." It focuses in particular on perspectives from which the notion of the rule of law as objective or value-neutral has been criticized and defended. Thinkers considered may include: Weber, Schmitt, Neumann, Hayek, Austin, Hart, Fuller, Raz, Pashukanis, Althusser, Kelsen, Habermas, Bourdieu, Dworkin, Posner, Unger, Kennedy, Cover, West, Lowi, Nonent, and Selznick.

**\*Social Studies 98hp. Is Democracy Possible Everywhere?**

Catalog Number: 2183

*Fred C. Schaffer*

*Half course (fall term). Hours to be arranged.*

Debates today rage about whether democracy is really possible in places like China or the Middle East. This tutorial asks whether there are, in fact, any cultural preconditions for or impediments to the establishment and consolidation of democracy. Among the questions we will consider: Which elements of culture are most important? How broadly must these elements be distributed? Where do democratic norms come from? How important is culture relative to other factors?



***Social Studies 98 — Junior Tutorials: Spring Term***

**\*Social Studies 98cl. Law and American Society**

Catalog Number: 7389

*Terry K. Aladjem*

*Half course (spring term). Th., 3–5.*

Examines law as a defining force in American culture and society in four dimensions—as it establishes individual rights, liberties, and limits of toleration; as it attempts to resolve differences among competing constituencies; as it sets out terms of punishment and social control, and as a source of informing images and ideological consistency.

*Note:* A prison trip is planned, subject to approval.

**\*Social Studies 98cv. Authoritarianism and Democracy in Latin America**

Catalog Number: 5595

*Steven R. Levitsky*

*Half course (spring term). Tu., 2–4.*

Examines regimes and regime change in Latin America, particularly Argentina, Brazil, Chile, Mexico, Peru, Venezuela. Compares modernization, Marxist, cultural, choice-centered, and institutionalist approaches to explaining the military coups of the 1960s/1970s and democratic transitions of the 1980s/1990s. Examines problems facing contemporary Latin American democracies, including civil-military relation, economic crisis and reform, and how institutions such as states, electoral and party systems, and executive-legislative arrangements affect the stability and quality of new democracies.

**\*Social Studies 98fu. Practicing Democracy: Leadership, Community, Power**

Catalog Number: 7432

*Marshall L. Ganz*

*Half course (spring term). Tu., 7–9 pm.*

Making democracy work requires an “organized” citizenry with power to assert its interests effectively. Yet US political participation declines, growing more unequal, as new democracies struggle to make citizen participation possible. Students learn to address public problems by organizing: developing leadership, building community and mobilizing power. Our pedagogy links sociological, political science, and social psychology theory with democratic practice.

*Note:* Ten hours per week of field work required.

**\*Social Studies 98ge. Violence and the Nation State**

Catalog Number: 8164

*Vasiliki Neofotistos*

*Half course (spring term). M., 3–5.*

How can we make sense of violence? Does the nation-state play a role in fomenting it? Examines violence as usual and “daily routine” that is embedded in the normative fabric of daily life and passes unnoticed. Considers the intricate connections among everyday violence, collective violence and the nation-state. Explores the conditions that have made collective violence possible in Rwanda, Cambodia, the Gaza Strip, India, Sri Lanka, the Balkans, and the US.



**\*Social Studies 98gk. Social Stratification and Literature**

Catalog Number: 6325

*Jonathan R. Eastwood*

*Half course (spring term). M., 2–4.*

Examines the relationship between modern literature and the rise of modern societies characterized by open systems of stratification, focusing especially on the modern novel as a form of social analysis. Readings include prominent works of social theory as well as selected novels by authors ranging from Cervantes to Wharton.

**\*Social Studies 98gn. Poverty, Inequality, and Economic Policy**

Catalog Number: 4035

*Matthias Schündeln*

*Half course (spring term). M., 3–5.*

We study the extent as well as the causes and consequences of poverty and inequality, and economic policies that deal with poverty and inequality. We focus on developing countries, but also compare to and draw conclusions from the experience of developed countries. Among the specific issues addressed are measurement issues, the relationship between poverty, inequality and growth, geographic aspects of poverty and inequality, poverty dynamics, and effects of poverty alleviation programs.

**\*Social Studies 98gq. The Global Culture Clash**

Catalog Number: 3028

*Adam Webb*

*Half course (spring term). W., 3–5.*

Explores pivotal themes in twentieth century world social thought, with a focus on responses to modernity. Compares how the major traditions, both Western and non-Western, have adapted to or reacted against a nascent global society based on liberal individualism, technocratic management, and cultural hybridity. Traces the fault line that everywhere divides the defenders and the critics of liberal modernity. Readings will reflect a range of liberal, high-culture, populist, and fundamentalist viewpoints.

**\*Social Studies 98gs. The European Union**

Catalog Number: 9524

*Kathrin S. Zippel (Northeastern University)*

*Half course (spring term). Tu., 2:30–4:30.*

With the completion of the Single Market and the European Monetary Union, economic integration is nearly a finished process. Yet, also accelerated by the enlargement process, the EU and its new and old member states is facing several new challenges. We explore contemporary economic, social and cultural issues in the integration process, including social policies such as employment, welfare, promotion of gender and ethnic equality, and issues of cultural identities and immigration.

**\*Social Studies 98hi. The Mystery of Property**

Catalog Number: 0063

*David R. Armitage*

*Half course (spring term). Tu., 2–4.*





Examines classical and modern theories of property from Grotius, Locke, Bentham, Proudhon, Marx, Mill, Maine, Nozick, and Waldron, among others. Analyses different conceptions of property in light of readings and case-studies drawn from law, history, anthropology, and economics.

**\*Social Studies 98hj. Colonial Legacies in Postcolonial Africa**

Catalog Number: 0080

*Sadhana Bery*

*Half course (spring term). W., 4–6.*

Examines the impact of European colonialism on the formation of postcolonial nations in Africa as these nations negotiate colonial histories, modernity, and their pre-colonial pasts to realize conventional and alternative modernities. An investigation of major African political and cultural movements - Negritude, Pan-Africanism, African Renaissance—will contribute to understanding how postcolonial movements differently configure a “desired” Africa.

**\*Social Studies 98hk. Immigration and Human Rights in the US**

Catalog Number: 1718

*Sarah Dix*

*Half course (spring term). Hours to be arranged.*

Immigration policy and human rights are examined in the context of a global economy, and people escaping poverty, hunger, civil war, and persecution. The course explores trends towards the criminalization of immigrants, particularly undocumented immigrants, and the militarization of immigration law enforcement. Once concentrated in the Mexico-US border region, such phenomena are now generalized. Community resistance to such trends is seen in social movements supporting human rights and human dignity.

**\*Social Studies 98hl. Islamism and Imperialism**

Catalog Number: 0067

*Engseng Ho*

*Half course (spring term). Tu., 1–3.*

This tutorial draws on transnational social theory to gain perspectives on the current conflict between the US and its Islamist opponents. Conflict on such a scale, and its consequences, cannot be understood within the terms of classical social theories designed for single nation-states. Armed with transnational perspectives, we will read case studies, original source material and currently evolving arguments on the nature of global Islamist politics and on the US as an imperial power.

**\*Social Studies 98hm. Prelude to Revolution: American Ideas 1945–1965**

Catalog Number: 1215

*Members of the Committee*

*Half course (spring term). Hours to be arranged.*

This tutorial explores the social and intellectual roots of ideas on civil rights, democracy, racism, gender, and history of science which burst into the forefront of US consciousness in the 1960s. Readings include works in political thought, existentialist philosophy, humanistic psychology, fiction, and drama. Authors include Thomas Kuhn, Herbert Marcuse, Hannah Arendt, Arthur



Miller, and Betty Friedan. Students will receive guidance in historical methods, and will write a primary research paper. Optional film series will accompany course.

**\*Social Studies 98hn. The Social Functions of School**

Catalog Number: 0065

*Lesley Noel Nye*

*Half course (spring term). Th., 1–3.*

Is the primary purpose of schooling in the US the realization of a democratic, idealized meritocracy, or perpetuating the social and economic stratification of our society? Does “schooling” have the same meaning for all our citizens, regardless of their race, class, religion, or gender? And should it? This course broadly explores the historical, social, and political roots of the paradox that is American schooling.

**\*Social Studies 98ho. Health Care in the US: Vulnerable Populations, Policy, and the Market**

Catalog Number: 0066

*David G. Stevenson (Medical School)*

*Half course (spring term). Th., 3–5.*

Examines health care in the US and considers the values that shape health policy. Particular attention will be given to care for vulnerable populations and to how one might think about disparities that exist in the current allocation of health care resources. Throughout the seminar, students will address questions in the context of policy analysis, ethical theory, and the historical development of health care institutions in the US.

*Note:* Ten hours per week of field work required.

**\*Social Studies 98hq. Managing Ethnic Conflict and Secessionism**

Catalog Number: 5288

*Dawn M. Brancati*

*Half course (spring term). Tu., 1–3.*

Ethnic conflict and secessionism pose a major threat to peace and stability in the twenty first century. In this course we will study the causes and consequences of ethnic conflict and secessionism, as well as the tools countries use to reduce ethnic them. We will examine not only the pros and cons of each of these different tools, but also the feasibility of implementing them in different countries.

## Sociology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of Sociology*



Robert J. Sampson, Henry Ford II Professor of the Social Sciences (*Chair*)  
David Laurence Ager, Lecturer on Sociology, Teaching Assistant in Special Concentrations  
Anthony A. Braga, Lecturer on Sociology (*spring term only*)  
Mary C. Brinton, Reischauer Institute Professor of Sociology  
Prudence L. Carter, Associate Professor of Sociology  
Duane Champagne, Visiting Professor of Sociology (*University of California, Los Angeles*) (*spring term only*)  
Mariko Chang, Associate Professor of Sociology and of Social Studies (*on leave fall term*)  
Nicholas A. Christakis, Professor of Medical Sociology (*Medical School*) and Professor of Sociology (*FAS*)  
Frank Dobbin, Professor of Sociology  
Neil Gross, Assistant Professor of Sociology  
Jason A. Kaufman, John L. Loeb Associate Professor of the Social Sciences  
Michèle Lamont, Professor of Sociology (*on leave fall term*)  
Stanley Lieberson, Abbott Lawrence Lowell Professor of Sociology (*on leave spring term*)  
Peter V. Marsden, Professor of Sociology (*Head Tutor*)  
Orlando Patterson, John Cowles Professor of Sociology (*on leave spring term*)  
Theda Skocpol, Victor S. Thomas Professor of Government and Sociology and Dean of the Graduate School of Arts and Sciences  
Gerhard Sonnert, Lecturer on Sociology (*fall term only*)  
Annemette Sorensen, Lecturer on Sociology  
Andrew G. Walder, Visiting Professor of Sociology (*Stanford University*)  
Mary C. Waters, Professor of Sociology (*on leave 2005-06*)  
Martin K. Whyte, Professor of Sociology (*on leave spring term*)  
William Julius Wilson, Lewis F. and Linda L. Geyser University Professor  
Andreas P. Wimmer, Visiting Professor of Sociology (*University of California, Los Angeles*)  
Christopher Winship, Diker-Tishman Professor of Sociology (*Director of Graduate Studies*)

### ***Other Faculty Offering Instruction in the Department of Sociology***

Mary-Jo Del Vecchio Good, Professor of Social Medicine (*Medical School*)  
Christopher Jencks, Malcolm Wiener Professor of Social Policy (*Kennedy School*) (*on leave 2005-06*)  
Jeffrey B. Liebman, Professor of Public Policy (*Kennedy School*)  
Mary Ruggie, Adjunct Professor of Public Policy (*Kennedy School*)

### ***Introductory Courses***

#### **Sociology 10. Introduction to Sociology**

Catalog Number: 4814

Neil Gross (*fall term*) and Jason A. Kaufman (*spring term*)

*Half course (fall term; repeated spring term). Fall: M., W., (F.), at 1; Spring: Tu., Th., at 12.*

*EXAM GROUP: Fall: 6; Spring: 14*

Fall: Explores what it means to view the human condition through a sociological lens. Examines different aspects of contemporary society, from work to the problem of homelessness, gender relations to crime. Spring: Distinguishes five approaches to the study of society – those centered



on society as a whole, on groups, and on individuals, interactions, and cultures. Surveys a range of literatures illustrating each approach covering topics from religion and race to sports and friendship.

*Note:* Counts for introductory concentration requirement.

### **Sociology 22. Gender Stratification: Work, Power, and Gender in America**

Catalog Number: 7997

*Mary C. Brinton*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Familiarizes students with central issues and theoretical perspectives regarding gender inequality in the workplace. Focuses first on long-term changes in women's economic participation and in the gendered division of labor as societies undergo processes of industrialization and post-industrialization, then more specifically on the US and on recent changes in workplace inequality and in the family-work interface.

*Note:* Counts for introductory concentration requirement.

### **[Sociology 24. Introduction to Social Inequality]**

Catalog Number: 9417

*Annemette Sorensen*

*Half course (fall term). Hours to be arranged.*

Examines individual and structural explanations for the generation and maintenance of inequality in the US with comparisons to other societies. The consequences of inequality for individuals and groups are studied.

*Note:* Expected to be given in 2006–07. Counts for introductory concentration requirement.

### **Sociology 25. Introduction to the Sociology of Organizations**

Catalog Number: 3609

*Frank Dobbin*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

Introduces the sociological study of formal organizations. Surveys basic concepts, emphases, and approaches. Attention given to processes within organizations, as well as to relationships between organizations and their environments. Topics include bureaucracy, leadership and power in organizations, interorganizational networks, and coordination among organizations.

*Note:* Counts for introductory concentration requirement.

### **Sociology 60. Sociology of Race and Ethnicity**

Catalog Number: 4114

*Prudence L. Carter*

*Half course (spring term). M., W., (F.), at 11; M., at 4. EXAM GROUP: 4*

Examines race and ethnic relations in the US from a theoretical, historical, and comparative perspective. Explores the emergence of racial and ethnic minorities through such historical processes as colonialism, slavery, and immigration. Studies the current relations among racial and ethnic groups in the US.

*Note:* Counts for introductory concentration requirement.

### ***Cross-listed Courses***



**Foreign Cultures 46. Caribbean Societies: Socioeconomic Change and Cultural Adaptations**

**Foreign Cultures 63. China's Two Social Revolutions**

**\*Freshman Seminar 43p. Media and the American Mind**

**\*Freshman Seminar 44o. China's Red Guard Movement, 1966–1968**

**Psychology 15. Social Psychology**

**[Quantitative Reasoning 36. Statistics and Public Policy]**

**[Social Analysis 54. American Society and Public Policy]**

***Tutorials***

**\*Sociology 91r. Supervised Reading and Research**

Catalog Number: 4449

*Peter V. Marsden and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Individual work in sociology under the supervision of teaching staff in the department. A graded supervised course of reading and research on a topic not covered by regular courses of instruction.

*Note:* Students negotiate topics on their own. A final paper must be filed in the Sociology undergraduate office.

**Sociology 96. Community Based Research**

Catalog Number: 7425

*Christopher Winship*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Students will carry out a guided research project in the Boston area. Course integrates readings on a specific topic with hands-on inquiry. Refer to course website for specific details. Fall: Soc 96b “Street-Level Democracy”: How politics matters in everyday life; Soc 96d “The Immigrant Experience.” Spring: Soc 96j “Research for Nonprofits.”

*Note:* Both concentrators and non-concentrators are welcome to apply. Required first meeting: Thursday, February 2, 3–5 in William James Hall 455.

**\*Sociology 97. Sophomore Tutorial**

Catalog Number: 5079

*Neil Gross*

*Half course (spring term). W., 3–4:30.*

Introduction to sociological theory. Aims to give a critical understanding of selected classic and contemporary theories and explore the relative merits of these theories from an empirical standpoint. Students first read influential statements about sociological theory and its relationship to research, and learn how researchers construct, evaluate, and modify theory. Readings focus on the classical theories of Marx, Weber, and Durkheim. Also, students read theoretical pieces by contemporary sociologists. Focuses on the theoretical concerns of the earlier classic thinkers.

*Note:* Required of and limited to concentrators, ordinarily sophomores. Required first organizational meeting.



**\*Sociology 98. Junior Tutorial**

Catalog Number: 5943 Enrollment: Limited to 8.

*Peter V. Marsden and Stanley Lieberman, David Laurence Ager (fall term); Mary Brinton, Michele Lamont, and Annemette Sørensen (spring term).*

*Half course (fall term; repeated spring term). Fall: Section 98A: M., 3-5; Section 98L: Hours to be arranged; Spring: Section 98B: Th., 1-3; Section 98L: W., 3-5; Section 98S: W., 1-3.*

Small group research projects centered on common topics that vary by seminar and year. In the fall, Stanley Lieberman will offer *Imagery and Tastes Among Social Classes* and David Ager will offer one on *Using Qualitative Methods to Conduct Research*. In the spring, Mary Brinton will offer *Education and Inequality*, Michele Lamont will offer *Comparative racism and anti-racism* and Mette Sorensen will offer *Comparative Research with Survey Data*.

*Note:* Required of and limited to concentrators, ordinarily juniors.

*Prerequisite:* Sociology 97.

**\*Sociology 99. Senior Tutorial**

Catalog Number: 6237

*Peter V. Marsden and members of the Department*

*Full course. Hours to be arranged.*

Supervision of theses or other honors projects.

*Note:* Limited to concentrators, ordinarily seniors. In addition, students of Sociology 99 may also participate in a fall term only, optional, regularly scheduled weekly group seminar for consultation and discussion about choice of problems, possible data, and research procedures.

***For Undergraduates and Graduates***

**[Sociology 107. The American Family]**

Catalog Number: 9124

*Martin K. Whyte*

*Half course (fall term). Hours to be arranged.*

The American family is often thought to be changing in ways considered unfortunate for children and society. At the same time, the family continues to occupy a central place in people's lives. We examine how and why American families have changed and explore the consequences of these changes.

*Note:* Expected to be given in 2006-07. Discussion section required.

**[Sociology 108. The Sociology of Work and Family]**

Catalog Number: 9487

*Martin K. Whyte*

*Half course (fall term). Hours to be arranged.*

Surveys research and theory in the growing area of work-family studies. Explores how work and family life interconnect and influence each other and the implications of these linkages for women, men, children, employers, the community and society. Examines how gender, social class, family structure and race and ethnicity affect individuals' ability to manage work and family. Topics will include work-family conflict, childcare and eldercare issues, and changing attitudes towards work-life integration. Private and public policy initiatives will be reviewed.

*Note:* Expected to be given in 2006-07.



**\*Sociology 109. Leadership and Organizations**

Catalog Number: 8260

David Laurence Ager

*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

Investigates the sociological processes that guide leadership behavior in the context of organizations. More generally, will consider major theories, issues, and empirical literature in the sociology of work. Topics include the nature and experience of work, occupations and professions, international comparisons, and contemporary developments.

*Note:* Enrollment determined by lottery.

**\*Sociology 110. Sociological Approaches to Income and Wealth: Conference Course**

Catalog Number: 2404

Mariko Chang

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Explores causes and consequences of income and wealth inequality in the US, focusing on the following questions: What are the sociological explanations for the distribution of income and wealth in society? Is economic inequality growing or shrinking over time? (How) do race and gender influence income and wealth attainment? Is financial knowledge a form of cultural capital that is passed from parents to children? Why is wealth inequality so much greater than income inequality?

**\*Sociology 119. Learning from Social Settings: Observing and Talking to People: Conference Course**

Catalog Number: 2570

David Laurence Ager

*Half course (spring term). Sections: M., 1–3 or M., 3–5. EXAM GROUP: 6, 7*

Examines the practice of conducting qualitative research: collecting, analyzing, and interpreting original observational and interview data. Emphasis will be on the development of skills that are employed by academics and practitioners (e.g. consultants, teachers, medical professionals, organizational leaders) to conduct qualitative field research in organizations and other social settings. Specifically the course will focus on negotiating entry, observation and note taking, interviewing, data analysis, and reporting of data.

**\*Sociology 128. Paradigms of Social Inquiry**

Catalog Number: 5979

Annemette Sørensen

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Reviews sociological methods and the questions to which each is best suited. Readings exemplify statistical, ethnographic, and historical approaches. Stresses logic and reasoning, not particular statistical methods.

*Note:* Must be taken before Sociology 156, which is offered in the spring. Required of concentrators, ordinarily Sophomores.

**[Sociology 136. Research for Nonprofits: Seminar (formerly Pathways to Public Service)]**

Catalog Number: 9739

Christopher Winship





*Half course (spring term). Hours to be arranged.*

Supports students in carrying out a research project for a nonprofit organization that they are currently working in or with. Examines how research is used in the nonprofit sector.

*Note:* Expected to be given in 2006–07. Current involvement in public service is required.

**[Sociology 141. Social Institutions of Contemporary China]**

Catalog Number: 9333

*Martin K. Whyte*

*Half course (spring term). Hours to be arranged.*

Introduction to the patterns of social life in China and how these have changed since the revolution in 1949. Topics covered include political institutions, work organizations, village life, cities, family life, schooling, and inequality.

*Note:* Expected to be given in 2006–07.

**Sociology 143. Love & Intimacy**

Catalog Number: 0013

*Neil Gross*

*Half course (spring term). Tu., Th., 11:30–1; EXAM GROUP: 13, 14*

Investigates transformations in family life, intimacy, and sexuality over the last half century.

Special attention is given to social theorists who consider the relation between such changes and the nature of contemporary society.

**[Sociology 149. Ethnicity: Comparative and Historical Perspectives: Conference Course]**

Catalog Number: 8242

*Orlando Patterson*

*Half course (spring term). Hours to be arranged.*

Ethnicity has emerged as one of the most important forces in the modern world. It is the source of collective identity, communal solidarity, and nation building as well as the inspiration for resistance to colonial domination and dictatorial regimes. It has also been a major source of political, social, and economic conflicts throughout the world, in some cases resulting in genocidal wars between groups. Explores the nature of ethnicity, main theoretical approaches to the subject, and case studies of ethnic formation and conflict, paying special attention to the relationship between ethnicity and religion, language, racism, and modernization.

*Note:* Expected to be given in 2006–07.

**[\*Sociology 150. The Social Underpinnings of Taste]**

Catalog Number: 4638

*Stanley Lieberson*

*Half course (spring term). Hours to be arranged.*

Examines current empirical and theoretical information about the social factors influencing our tastes. This includes work on naming practices, fashion, art, and pop culture. Considers how tastes are molded and changed by social class, political and social events, age cohorts, and education, as well as internal processes.

*Note:* Expected to be given in 2006–07.



**Sociology 153. Media and the American Mind**

Catalog Number: 8867

*Jason A. Kaufman*

*Half course (fall term). Tu., Th., at 12; . EXAM GROUP: 14*

Explores American society through the lens of its various media, including but not restricted to television, theatre, literature, and music. Topics include class and cultural consumption, the business dynamics of the art world, the co-optation and subversion of dominant art forms, the impact of information networks on social structure and social development, and the power of advertising and mass media. Designed to be both fun and informative. Appropriate for sociology concentrators and non-concentrators alike.

**[Sociology 154. Culture, Power, and Inequality]**

Catalog Number: 5713

*Michèle Lamont*

*Half course (fall term). Hours to be arranged.*

What is the role played by culture in shaping the distribution of power and resources in contemporary societies? This course provides tools and frameworks of understanding to analyze topics such as identity, symbolic boundaries, race, class, and gender cultures, culture and urban poverty, consumption and popular culture, resistant subcultures, media, politics, and the making of public opinion, and American cultural hegemony. values? This course provides simpler and more complex tools and frameworks of understanding to answer these questions.

*Note:* Expected to be given in 2006–07. Open to graduate and undergraduate students

**\*Sociology 156. Quantitative Methods in Sociology**

Catalog Number: 8958

*Peter V. Marsden*

*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16*

Introduces quantitative analysis in social research, including principles of research design and the use of empirical evidence, particularly from social surveys. Descriptive and inferential statistics, contingency table analysis, and regression analysis. Emphasis on analysis of data and presentation of results in research reports.

*Note:* Required of and limited to Sociology concentrators, ordinarily sophomores.

*Prerequisite:* Sociology 128.

**Sociology 157. Gender and Social Policy: The US in Comparative Perspective: Conference Course**

Catalog Number: 3030

*Mary Ruggie (Kennedy School)*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Examines the role of various actors and venues (including governments, courts, interest groups, employers) on the development and implementation of policies on health, labor market, family, welfare and violence. Policies in the US are compared with those in selected European countries. Theoretical perspectives are drawn from the literature on the welfare state and feminist legal theory.

*Note:* Open to undergraduate and graduate students.



**[Sociology 158. Gender Stratification. Career and Family in Women's and Men's Lives]**

Catalog Number: 1956

*Annemette Sorensen*

*Half course (spring term). Hours to be arranged.*

Examines changes in women's and men's career opportunities and involvement in family life. How have women's and men's career opportunities changed and why? Do women and men share more equally in the care of children, partners and aging parents? Examines how careers and family obligations mutually affect each other and asks why men and women often experience the intersection between work and family differently. Comparisons between the US and other countries are explored.

*Note:* Expected to be given in 2006–07.

**Sociology 160. Medicine, Health Policy and Bioethics in Comparative and Global Perspective: Conference Course**

Catalog Number: 3456 Enrollment: Limited to 18.

*Mary-Jo Del Vecchio Good (Medical School)*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Complements Sociology 162. Examines the culture and political economy of biomedicine and health care institutions in the US and internationally. Analysis of current debates on medical education and the new professionalism; clinical narratives, the medical imaginary and the biotechnical embrace; cultural diversity, disparities and inequalities in medical and mental health care; medical error and quality of care; just use of societal resources; and bioethical dilemmas in clinical practice, medical missions and interventions, and international research and health policies.

**[Sociology 162. Medical Sociology]**

Catalog Number: 5801

*Mary-Jo Del Vecchio Good (Medical School)*

*Half course (spring term). Hours to be arranged.*

Explores current topics in medical sociology organized around the theme of global and local environments of risk and trust in medicine and health care. Examines how medical education, knowledge, practice, research, technology, and health policies are culturally shaped and institutionally organized. Analyzes the culture and political economy of American medicine through comparative and global perspectives, utilizing country specific illustrations and global health examples.

*Note:* Expected to be given in 2006–07.

**[Sociology 163. Women and Science: Sociological Aspects]**

Catalog Number: 3019

*Gerhard Sonnert*

*Half course (fall term). Hours to be arranged.*

Inquiry into the situation of women in science, with two main objectives: first, to familiarize the participants with some basic facts, trends, and theories in this field; second, to develop a sociological perspective on the issue that highlights the structural similarities and dissimilarities between the situation of women and that of other minority groups in science.

*Note:* Expected to be given in 2006–07.



**Sociology 170. China Under Mao**

Catalog Number: 0014

*Andrew G. Walder (Stanford University)*

*Half course (spring term). M., W., at 11;. EXAM GROUP: 4*

The transformation of Chinese society and economy from the 1949 revolution to the eve of China's reforms in 1978: the creation of a socialist economy, the reorganization of rural society and urban workplaces, the emergence of new inequalities of power and opportunity, the social impact of the Great Leap Forward and the Cultural Revolution and the consequences for Chinese society in the 1970s.

**Sociology 173. Making sense of contemporary Iraq: Seminar**

Catalog Number: 0015

*Andreas P. Wimmer (University of California, Los Angeles)*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Offers an introduction to the major historical developments from Ottoman Iraq to the present. Tribe and empire, nation-building and ethnic politics, authoritarianism, pan-Arabism, neo-tribalism and religious mobilization are some of the key concepts that will be useful to arrive at a better understanding of modern Iraqi society.

**[Sociology 176. Immigration and the Transformation of American Society]**

Catalog Number: 5953

*Mary C. Waters*

*Half course (fall term). Hours to be arranged.*

How are new immigrants and their children being incorporated into the US? How is American society changing as a result of immigration? Examines social, cultural, economic, political, and linguistic trends. Focuses on the US, with comparisons to other immigrant receiving countries. *Note:* Expected to be given in 2006–07. Appropriate for concentrators and nonconcentrators alike.

**Sociology 179. Crime, Justice, and the American Legal System**

Catalog Number: 3962

*Anthony A. Braga*

*Half course (spring term). M., W., at 12;. EXAM GROUP: 5*

Examines the causes and consequences of the crime problem in America. Key actors in the legal system, such as police, courts, and prisons will be covered and the role of these institutions in crime prevention will be assessed. Particular attention will be paid to drugs, guns, gangs and other urban crime problems as well as controversial topics in criminal justice, such as racial profiling and the death penalty.

**[Sociology 180. Social Change in Japan: Conference Course]**

Catalog Number: 4844 Enrollment: Limited to 25.

*Mary C. Brinton*

*Half course (spring term). Hours to be arranged.*

Examines several areas of social and economic life in Japanese society and the nature of change within them. Considered in particular: how people's experience of the family, education, work, and social class is structured in contemporary Japan; how analytical comparisons can be made to



other societies; and how change has occurred in recent decades. No Japan-specific knowledge is necessary, but an interest in social science concepts and methods is important.

*Note:* Expected to be given in 2006–07.

**[Sociology 184. Freedom in America: An Historical Sociology: Conference Course]**

Catalog Number: 9740

*Orlando Patterson*

*Half course (fall term). Hours to be arranged.*

Examines the social construction and practice of freedom in America from early colonial times to the present. Freedom explored not simply as an idea, but as a cultural system that both shapes and is shaped by changing socio-economic contexts. Special attention paid to the ways in which constructions of freedom vary by class, gender and ethnicity, and the role of slavery, the revolution, the civil war, and the Civil Rights movement in the development of this ideal.

*Note:* Expected to be given in 2006–07.

**Sociology 190. Life and Death in the US: Medicine and Disease in Social Context**

Catalog Number: 0021

*Nicholas A. Christakis (Medical School, FAS)*

*Half course (spring term). M., W., at 3. EXAM GROUP: 8*

Explores how biological and social factors jointly conspire to determine the health of individuals and populations. Examines how medical care, social networks, and socioeconomic inequality influence illness, recovery, and death.

**Sociology 195. Globalization and Ethnicity**

Catalog Number: 0040

*Andreas P. Wimmer (University of California, Los Angeles)*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Introduces the major conceptual and theoretical issues related to ethnicity and race. A series of country cases from Europe, Latin America and the Middle East will be offered and we will critically assess how far global forces have affected such historically grown ethnic constellations: the worldwide spread of the nation state form; global social movements; transnational migration; and “hybrid” cultural forms.

**Sociology 196. Comparative American Indian Societies**

Catalog Number: 0044

*Duane Champagne (University of California, Los Angeles)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Comparative and historical study of political, economic, and cultural change in indigenous North American societies. Several theories of social change, applied to selected case studies.

**[Sociology 198. Crime & Disorder in the City: Conference Course]**

Catalog Number: 5382 Enrollment: Limited to 20.

*Robert J. Sampson*

*Half course (spring term). Hours to be arranged.*

The concepts of disorder and disorganization have long been the subject of sharp intellectual disagreement, especially in accounts of crime in the city. After touching on classic approaches to



these notions, we will focus on contemporary debates and research, including the social ecology of crime and urban inequality, community social (dis)organization, broken-windows theory, street life and violence in the inner city, symbolic meanings of disorder, and competing visions for order in public spaces.

*Note:* Expected to be given in 2006–07.

### ***Cross-listed Courses***

**[History of Science 157 \(formerly History of Science 157v\). Sociological Topics in the History of Science](#)**  
**[Studies of Women, Gender, and Sexuality 1125 \(formerly Women's Studies 125\). Gender and Health](#)**

### ***Primarily for Graduates***

#### **[Sociology 201. Sociological Research Design](#)**

Catalog Number: 0085

*Mary C. Brinton and Frank Dobbin (fall term); Mary Brinton and Nicholas A. Christakis (Medical School, FAS) (spring term)*

*Full course. W., 12–2.*

Guides students through the process of producing an original research paper of high quality. Readings and discussion cover the identification of appropriate research problems, the nature of causal reasoning, and data analysis and write-up.

*Note:* Required of second-year graduate students while writing the qualifying paper.

#### **[\\*Sociology 202. Intermediate Quantitative Research Methods](#)**

Catalog Number: 4117

*Peter V. Marsden*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Research designs and measurement techniques used in quantitative sociological research. Regression methods for continuous and binary response variables, including categorical predictors, nonlinearity interactions, diagnostics, criticism. Emphasis on applications and implementation.

*Note:* Required of, and ordinarily limited to, first-year graduate students in Sociology

*Prerequisite:* Familiarity with basic statistics.

#### **[\\*Sociology 203a. Advanced Quantitative Research Methods](#)**

Catalog Number: 3315

*Christopher Winship*

*Half course (fall term). Tu., Th., 10–12.*

Matrix approach to regression analysis with an emphasis on the assumptions behind OLS. Instrumental variables, generalized least squares, probit and logit models, survival analysis, hierarchical linear models, and systems of equations are studied.

*Note:* Required of first-year graduate students in Sociology.

*Prerequisite:* Sociology 202 or basic course in regression analysis.



**[\*Sociology 203b. Analysis of Longitudinal Data]**

Catalog Number: 1860

*Peter V. Marsden*

*Half course (fall term). Hours to be arranged.*

Treats longitudinal design and methods for the statistical analysis of longitudinal data with an emphasis on the analysis of change in discrete variables. Includes introduction to time series analysis. Statistical theory and practical applications covered.

*Note:* Expected to be given in 2006–07. Primarily for graduate students in sociology.

*Prerequisite:* Sociology 203a.

**Sociology 204. Sociological Theory: Seminar**

Catalog Number: 6189

*Neil Gross*

*Half course (fall term). M., 9–11. EXAM GROUP: 2, 3*

Introduction to the ideas of and socio-intellectual contexts that were formative for Comte, Durkheim, Marx, Weber, Spencer, Simmel, and Mead. Consideration of their significance for contemporary sociological theory.

*Note:* Required of first-year graduate students in Sociology.

**[Sociology 206. The Sociology of Development: Seminar]**

Catalog Number: 9026

*Martin K. Whyte*

*Half course (spring term). Hours to be arranged.*

Examines debates surrounding the nature of the process of economic development. Major attention is devoted to rival theories of where and why development occurs and to a variety of social consequences of economic development.

*Note:* Expected to be given in 2006–07.

**\*Sociology 208. Contemporary Theory and Research: Seminar**

Catalog Number: 6080

*Andreas P. Wimmer (University of California, Los Angeles)*

*Half course (spring term). W., 10–12. EXAM GROUP: 3, 4*

Develops tools for the construction of sociological theory. Compares major contemporary sociological theories and their applications. Emphasis is placed on adjudicating among competing explanations based on evidence and critical assessment of a theory's logic.

*Note:* Required of and limited to first-year graduate students in Sociology.

**\*Sociology 209. Qualitative Social Analysis: Seminar**

Catalog Number: 1198

*Prudence L. Carter*

*Half course (fall term). W., 10–12. EXAM GROUP: 3, 4*

Examines methodological approaches to non-numerical data used by social scientists to obtain valid, reliable, and meaningful insight into the social world through the analysis of ethnographic field notes, interview transcripts, archival and other interpretative data.

*Note:* Required of and limited to first-year graduate students in Sociology.





**\*Sociology 210. Issues in the Interpretation of Empirical Evidence: Seminar**

Catalog Number: 2882

*Stanley Lieberman*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Special problems occur in the interpretation of either qualitative or quantitative results based on non-experimental data whether from surveys, historical research, or field work. These issues differ from those that can be resolved through statistical solutions.

**Sociology 217. Sociology of Families and Kinship: Seminar**

Catalog Number: 8522

*Martin K. Whyte*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines research on family patterns, combining a focus on how family patterns vary and change over time and how individuals differ in their experience of life course transitions, such as marriage, divorce, and retirement.

**[Sociology 224. Organizational Analysis: Seminar]**

Catalog Number: 8202

*Frank Dobbin*

*Half course (fall term). Hours to be arranged.*

Reviews classical and contemporary theories of organizations, including ecological, institutional, resource dependence, transaction-cost, agency theory, learning theory, and organizational culture. Examines phenomena at multiple levels from the establishment to the organizational network or field.

*Note:* Expected to be given in 2006–07.

**Sociology 225. Historical Sociology: Studying Continuity and Change: Seminar**

Catalog Number: 8750

*Orlando Patterson*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Examines the main approaches to the interface of history and sociology. Major theoretical traditions and methodological strategies (both quantitative and qualitative) are appraised mainly through the exploration of exemplary studies.

**[Sociology 231. Neighborhood Effects and Community-Level Social Processes]**

Catalog Number: 6611

*Robert J. Sampson*

*Half course (spring term). Hours to be arranged.*

Examines contemporary research on the role of neighborhoods in modern city life. Topics include segregation and neighborhood social isolation; social networks and trust; spatial forms of racial inequality; and the role of institutions in generating collective action.

*Note:* Expected to be given in 2006–07.

**Sociology 236. Selected Topics in Culture and Inequality**

Catalog Number: 0582

*Michèle Lamont*



*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Introduction to cultural sociology, particularly as it intersects with the study of inequality.

Topics: Symbolic boundaries, cultural capital, cultural consumption, identity, race and class cultures, anti-racism, cultural repertoires, explanation, interpretation, and comparative research strategies.

**[Sociology 237. Contemporary Chinese Society: Seminar]**

Catalog Number: 4320

*Martin K. Whyte*

*Half course (spring term). Hours to be arranged.*

A seminar devoted to the intensive analysis of a particular aspect of contemporary Chinese society. This year the focus will be on trends in inequality and stratification in China.

*Note:* Expected to be given in 2006–07.

**Sociology 243. Economic Sociology**

Catalog Number: 2022

*Frank Dobbin*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Economic sociology has been revived of late, with studies of corporate strategy, national business systems, and pricing decisions. We survey institutional, network, power, and cognitive theories of economic behavior.

**[Sociology 244. Topics in Economic Sociology]**

Catalog Number: 8692

*Mary C. Brinton*

*Half course (fall term). Hours to be arranged.*

Compares how sociologists and economists view the development and operation of markets and how they analyze individuals' behavior in market settings, with particular attention to labor markets.

*Note:* Expected to be given in 2006–07.

**[\*Sociology 249. “Race,” Culture, and Social Structure: Seminar]**

Catalog Number: 5727

*Orlando Patterson*

*Half course (spring term). Hours to be arranged.*

Examines socio-economic and cultural dimensions of racial inequality in the US. External and institutional factors accounting for inequality and internal problems will be examined. Political and economic consequences of various policies aimed at reducing inequality such as affirmative action will be explored, giving attention to family structure and gender relations and policies relating to them. and to the policies relating to them.

*Note:* Expected to be given in 2006–07.

**\*Sociology 255. Social Stratification: Seminar**

Catalog Number: 3839

*Annemette Sørensen*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*



Examines theoretical and empirical approaches to understanding the sources, structure and consequences of persistent social inequalities.

**[Sociology 256. Sociology of Education: Seminar]**

Catalog Number: 7794

*Prudence L. Carter*

*Half course (spring term). Hours to be arranged.*

Examines current theory and research about education's role in contemporary society, including its connections to communities, the economy, social stratification and cultural reproduction; and the role of organizational and internal school processes on student achievement.

*Note:* Expected to be given in 2006–07.

**[Sociology 258. Social Organization of the Modern City: Seminar]**

Catalog Number: 2373

*Robert J. Sampson*

*Half course (spring term). Hours to be arranged.*

Examines the social organization of modern cities, highlighting the role of social networks in the following domains: personal ties, sexual marketplaces, technology-mediated connections, community power, civic engagement, and social movements.

*Note:* Expected to be given in 2006–07.

**Sociology 261. Studying Life Histories**

Catalog Number: 9845

*Annemette Sørensen*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Life histories and their use in the study of the life course, human development, careers, causal effects and social change. Examines research traditions, including biographical studies, retrospective life history studies, and prospective studies.

**Sociology 262. Comparative International Social and Educational Research**

Catalog Number: 0627

*Prudence L. Carter*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Examines theoretical and methodological literature about myriad sociological issues pertaining to economic, educational, social, and cultural inequality.

*Note:* Designed for graduate students with interests in comparative international research in education and social stratification.

**Sociology 266. Social Foundations of Justice**

Catalog Number: 1660

*Christopher Winship*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Why and how do people come to see a situation as just. This research seminar explores work in sociology, psychology, political science, and philosophy. The goal is for students to launch their own research project.



**Sociology 270. Political Sociology**

Catalog Number: 0688

*Andrew G. Walder (Stanford University)*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

A critical review of theories about the relationship between social structure and politics, with an emphasis on the limits of structural explanation. A focus on inequality, organization, community, and networks as explanations of political phenomena.

**[\*Sociology 271. Sociology of Culture: Seminar]**

Catalog Number: 5401

*Jason A. Kaufman*

*Half course (fall term). Hours to be arranged.*

Reviews contemporary themes and approaches in the sociology of culture. Topics will include media and mass society; class, culture, and power; the production of culture; neo-institutionalism; culture and cognition; macro-theories of social change; and methodology.

*Note:* Expected to be given in 2006–07.

**\*Sociology 275. Social Network Analysis: Seminar**

Catalog Number: 6899

*Peter V. Marsden*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Concepts and methods for studying social structure using social networks. Approaches to collecting network data; data quality; graph-theoretic, statistical, and visual approaches to analyzing network data, including blockmodels and multidimensional scaling.

**Sociology 295. Debating Ethnicity**

Catalog Number: 0042

*Andreas P. Wimmer (University of California, Los Angeles)*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Review of the major international theoretical debates on ethnicity, nationhood, and race of the past three decades, followed by US-specific literature.

**\*Sociology 296a. Proseminar on Inequality and Social Policy I**

Catalog Number: 6231 Enrollment: Limited to 18.

*Jeffrey B. Liebman (Kennedy School)*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Deals with the causes of economic inequality, including demand for various kinds of skills, the supply of such skills, cultural differences, political attitudes, political institutions, and living arrangements.

*Note:* Offered jointly with the Kennedy School as HLE-511. Meets at the Kennedy School.

***Cross-listed Courses***

**Government 2284. Chinese Authors on Chinese Politics**

**[\*Government 2326. American Political Development and Contemporary Politics]**



**\*Government 2340. Proseminar on Inequality and Social Policy II**

**\*Psychology 2630. Social Behavior in Organizations: Seminar**

***Graduate Courses of Reading and Research***

**[\*Sociology 300. Workshop on Race/Ethnicity, Culture and Social Structure]**

Catalog Number: 6654

*Orlando Patterson 1091 (on leave spring term)*

A venue for graduate students and other advanced scholars working on all aspects of minority-majority relations, the condition of Afro-Americans and other disadvantaged ethnic groups, and the evaluation of related public policies and programs.

*Note:* Expected to be given in 2006–07.

**\*Sociology 301. Special Reading and Research**

Catalog Number: 4017

*David Laurence Ager 5142, Anthony A. Braga 5347 (spring term only) (spring term only), Mary C. Brinton 4567, Prudence L. Carter 3973, Mariko Chang 1563 (on leave fall term), Nicholas A. Christakis 4459, Frank Dobbin 4622, Mary-Jo Del Vecchio Good (Medical School) 7721, Neil Gross 4975, Christopher Jencks (Kennedy School) 2160 (on leave 2005-06), Jason A. Kaufman 2147, Michèle Lamont 4634 (on leave fall term), Stanley Lieberson 1937 (on leave spring term), Peter V. Marsden 1797, Orlando Patterson 1091 (on leave spring term), Robert J. Sampson 4546, Theda Skocpol 1387, Gerhard Sonnert 5348 (fall term only), Annemette Sorensen 4159, Andrew G. Walder (Stanford University) 1799, Mary C. Waters 1498 (on leave 2005-06), Martin K. Whyte 3737 (on leave spring term) (fall term only), William Julius Wilson 2401, Andreas P. Wimmer (University of California, Los Angeles) 5349, and Christopher Winship 3189*  
*Half course (fall term; repeated spring term). Hours to be arranged.*

**\*Sociology 302. Direction of Doctoral Dissertations**

Catalog Number: 5021

*Members of the Department*

**\*Sociology 303a. Advanced Topics in Quantitative Research**

Catalog Number: 5636

*Christopher Winship 3189*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Examines current methodological scholarship in the social sciences with an eye to assessing its quality and potential for advancing quantitative methods. Recently published and unpublished work by local scholars examined.

**\*Sociology 304. Culture and Social Analysis Workshop**

Catalog Number: 2809

*Neil Gross 4975, Jason A. Kaufman 2147, and Michèle Lamont 4634 (on leave fall term)*

*Half course (fall term; repeated spring term). Fall: Hours to be arranged. Spring: F., 12–2.*

A venue for those working on topics such as meaning-making, identity, collective memory, symbolic boundaries, cultural capital, class cultures, popular culture, media, disciplinary cultures, and the impact of culture on inequality.



**\*Sociology 305. Teaching Practicum**

Catalog Number: 0259

*Peter V. Marsden 1797 and staff*

*Half course (fall term). F., 2–4.*

*Note:* Required of graduate students in Sociology. Attendance at first meeting is required.

**\*Sociology 306r. Colloquium in Sociology**

Catalog Number: 4818

*Prudence L. Carter 3973 (fall term only) and Jason A. Kaufman 2147 (spring term only)*

*Half course (fall term; repeated spring term). Fall: Tu., 12–2; Spring: Th., 3–4:30.*

Provides a forum for advanced graduate students for presentation of their research. Only graduate students in sociology may register for credit. Students registered for credit must make a seminar presentation during the term.

**\*Sociology 307. Workshop on Inequality and Social Policy III**

Catalog Number: 0137

*William Julius Wilson 2401*

*Half course (fall term). M., 2–4.*

Students develop previously completed papers from Sociology 296a or 296b into professional presentations and publishable articles, critique peer papers across disciplines, and discuss presentations of national experts.

*Note:* Offered jointly with the Kennedy School as HLE-513.

*Prerequisite:* Sociology 296a or 296b (or HLE-511 or HLE-512 at the Kennedy School) or by permission of instructor.

**\*Sociology 308. Workshop on Economic Sociology**

Catalog Number: 0086

*Frank Dobbin 4622*

*Half course (fall term; repeated spring term). Fall: W., 3:30–5. Spring: Hours to be arranged.*

Presentations and discussions of new research by members of the community and visiting scholars. Students are exposed to the major paradigms in the field, and see how research articles are developed and refined.

**[\*Sociology 310r. Colloquium in Social Movements, Politics, and Religion]**

Catalog Number: 1316

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Bi-weekly colloquium for graduate students that examines social movements, politics, and religion. Students participate in meetings and present original research.

*Note:* Expected to be given in 2006–07.

***Cross-listed Courses***

**\*Government 3004. Research Workshop in American Politics**

**\*Social Policy 301. Research and Social Policy Seminar**



## South Asian Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on South Asian Studies*

Sugata Bose, Gardiner Professor of Oceanic History and Affairs (*Chair*) (*on leave 2005-06*)

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Cultures (*on leave 2005-06*)

Homi K. Bhabha, Anne F. Rothenberg Professor of English and American Literature and Language

Lincoln C. Chen, Taro Takemi Professor of International Health (*Public Health*)

Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society

Rena Fonseca, Lecturer on History and Literature

William A. Graham, Jr., Murray A. Albertson Professor of Middle Eastern Studies (*FAS*) and

John Lord O'Brian Professor of Divinity (*Divinity School*)

Engseng Ho, Frederick S. Danzinger Associate Professor of Anthropology and of Social Studies

Smita Lahiri, Assistant Professor of Anthropology

Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science

Parimal G. Patil, Assistant Professor of the Study of Religion and of Sanskrit and Indian Studies (*on leave 2005-06*)

Peter P. Rogers, Gordon McKay Professor of Environmental Engineering

Amartya Sen, Lamont University Professor

Sharmila Sen, Assistant Professor of English and American Literature and Language

Ajantha Subramanian, Assistant Professor of Anthropology and of Social Studies (*on leave 2005-06*)

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies

Michael Witzel, Wales Professor of Sanskrit

Richard K. Wolf, Harris K. Weston Associate Professor of the Humanities

#### *Other Faculty Offering Instruction on South Asian Studies*

Nur Yalman, Research Professor of Social Anthropology and of Middle Eastern Studies

The Committee on South Asian Studies is a multi-disciplinary group of scholars appointed to coordinate teaching and research on South Asia (the nation-states of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan, the Maldives and their neighboring areas) among Harvard's departments and schools and is concerned with the planned development of South Asian studies in the University as a whole. It works in close collaboration with the Asia Center, especially its South Asia Initiative, to promote the study of South Asia in a comparative and global context. In





association with the Asia Center, it sponsors lectures, seminars, conferences, films and exhibitions on South Asia. There are currently three FAS seminar series wholly focused on South Asia: South Asia without Borders, the South Asia Politics Seminar and the South Asia Humanities Seminar.

The Committee is working to expand the range of curricular options open to undergraduates. An undergraduate concentration is currently offered in the Department of Sanskrit and Indian Studies. Graduate degrees with a South Asian focus can be sought in the Departments of History, Religion, Sanskrit and Indian Studies and other departments. A PhD degree can be pursued in the Department of History in South Asian and Indian Ocean history. South Asian religions can be studied towards a PhD degree under the Committee on the Study of Religion. The Department of Near Eastern Languages and Civilizations offers a PhD track in Indo-Islamic culture. The Asia Center awards several South Asia-related undergraduate and graduate research and travel grants and fellowships.

At present, Harvard offers more than 100 non-language courses in South Asian Studies in various departments of the Faculty of Arts and Sciences and Professional Schools on a regular basis, with many offered every year and all offered at least once every three years. Of these, over 60 consist of 100 percent South Asian content. Courses with at least 25 percent South Asian content number nearly 40. More than 30 language courses are offered with at least three-year sequences in Hindi-Urdu and Sanskrit. Reciprocal cross-registration agreements are in place with the Massachusetts Institute of Technology and for graduate students at the Fletcher School of Law and Diplomacy at Tufts University.

### *Core Courses of Interest*

#### **Foreign Cultures 12. Sources of Indian Civilization**

[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies]

[Historical Study A-16. The Making of Modern South Asia]

[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage]

### *Freshman Seminars of Interest*

**\*Freshman Seminar 32x. Topics in Indo-Tibetan Buddhism**

**\*Freshman Seminar 44p. Contemporary India: Fact and Fiction**

### *Courses of Interest*

[Anthropology 1120. Comparative Analysis of Ancient Civilizations]

**Anthropology 1630 (formerly Anthropology 132). Anthropology of Religion**

[Anthropology 1690 (formerly Anthropology 178). Consuming Passions: Cultures of Materialism in Asia]

[Anthropology 1840 (formerly Anthropology 183). Comparative Liberation Theologies]

**\*Anthropology 2650a (formerly \*Anthropology 205a). History and Theory of Social Anthropology: Proseminar**

**Anthropology 2650b (formerly Anthropology 205b). History and Theory of Social**



[Anthropology: Proseminar](#)

[Anthropology 2780 (formerly Anthropology 283). Culture and Citizenship]

[Anthropology 2830 \(formerly Anthropology 223\). Mobility](#)

[Anthropology 2985. Sociocultural Space and Time: Seminar]

\*Anthropology 3100 (formerly \*Anthropology 3023). Old World Archaeology (Europe, Asia, and Africa)

\*Anthropology 3111 (formerly \*Anthropology 3024). Asiatic Archaeology and Ethnography

\*Anthropology 3140 (formerly \*Anthropology 3110). Methods and Theory in Archaeology

[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]

[Economics 2325. World Development](#)

[Economics 2390b. Development Economics I: Microeconomic Issues](#)

[Economics 2390d. The Economic Growth and Development Workshop](#)

[English 167p. Postcolonial Narratives](#)

[\\*History 90g. Major Themes in Latin American History](#)

[History 1895. The Indian Ocean in Comparative Perspective: Conference Course]

[History 1897. Nation, Reason and Religion in South Asia]

[History 2892. Colonial and Post-Colonial Histories of South Asia: Seminar]

[\\*History of Art and Architecture 124z. Architecture and Dynastic Legitimacy: The Early Modern Islamic Empires \(1450-1650\)](#)

[\\*Indian Studies 91r. Supervised Reading and Research](#)

[\\*Indian Studies 98r. Tutorial — Junior Year](#)

[\\*Indian Studies 99. Tutorial — Senior Year](#)

[Indian Studies 107. Tradition and Modernity in the Urdu-Hindi Short Story]

[Indian Studies 110. History of South Asia to 1200 CE]

[Indian Studies 118. Indian Philosophy: Advanced Introduction]

[Indian Studies 201. Materials and Methods of Indian Studies: Proseminar](#)

[Indian Studies 206. Old Indian and Eurasian Creation Myths: Seminar](#)

[Indian Studies 211. Archaic Indian Religion: The Vedas. Seminar]

\*Indian Studies 302. Reading and Research

[\*Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam]

[Linguistics 122. Introduction to Indo-European]

[Linguistics 220ar. Advanced Indo-European](#)

[Linguistics 221r. Workshop in Indo-European](#)

[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage]

[Music 190r. Topics in World Music: Proseminar](#)

[\\*Music 190rs. Topics in World Music: Proseminar](#)

[Music 207r. Ethnomusicology: Seminar](#)

[Nepali 101a. Introductory Nepali](#)

[Nepali 101b. Introductory Nepali](#)

[Pali 101a. Introductory Pali](#)

[Pali 101b. Introductory Pali](#)

[Pali 102a. Intermediate Pali](#)

[\\*Pali 102b. Intermediate Pali](#)



[Pali 103r. Readings in Pali](#)

[Persian A. Elementary Persian](#)

[Persian 120a. Intermediate Persian I](#)

[Persian 120b. Intermediate Persian II](#)

[Persian 140ar. Selected Readings in Classical Persian Literature](#)

[Persian 140br. Selected Readings in Classical Persian Literature](#)

[Persian 150r. Readings in Persian Historians, Geographers and Biographers](#)

**\*Persian 300. Persian Language and Literature**

[Religion 11. World Religions: Diversity and Dialogue](#)

[Religion 1600. Introduction to Hindu Thought and Practice](#)

[Religion 1627. Hindu Ethics: Seminar]

[Religion 1631. Hindu Traditions of Devotion](#)

[Religion 1650. Modern Hindu Movements: Seminar](#)

[Religion 1700. Introduction to Buddhism, in Theory and Practice]

[Religion 1706. South Asian Buddhism: Dharmas, Emptiness, and Idealism ]

[Religion 1708. Issues in Buddhist Philosophy: Conference Course](#)

[Religion 1801 (formerly Religion 1551). For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

[Religion 1802 (formerly Religion 1555). Introduction to Islamic Mysticism: The Sufi Tradition]

[\*Religion 1820 (formerly \*Religion 1585). Islam in South Asia: Religion, Culture, and Identity in South Asian Muslim Societies]

[\*Religion 3601. Readings in Hindu Myth, Image, and Pilgrimage: Seminar]

[\\*Sanskrit 91r. Supervised Reading and Research](#)

[\\*Sanskrit 98r. Tutorial — Junior Year](#)

[\\*Sanskrit 99. Tutorial - Senior Year](#)

[Sanskrit 101a. Elementary Sanskrit](#)

[Sanskrit 101b. Elementary Sanskrit](#)

[Sanskrit 102a. Intermediate Sanskrit I](#)

[Sanskrit 102b. Intermediate Sanskrit II](#)

[Sanskrit 200ar. Advanced Poetic Sanskrit]

[Sanskrit 200br. Advanced Poetic Sanskrit]

[Sanskrit 201ar. Advanced Philosophical Sanskrit](#)

[Sanskrit 201br. Advanced Philosophical Sanskrit](#)

[Sanskrit 204ar. Introduction to Vedic Sanskrit and Literature](#)

[Sanskrit 204br. Introduction to Vedic Sanskrit and Literature](#)

[Sanskrit 215ar. Dharmasastra and Arthasastra]

**\*Sanskrit 301. Reading and Research**

**\*Sanskrit 310. Direction of Doctoral Dissertations**

[Urdu 101. Introductory Urdu-Hindi](#)

[Urdu 102. Intermediate Urdu-Hindi](#)

[Urdu 103a. Advanced Urdu-Hindi](#)

[Urdu 103b. Advanced Urdu-Hindi](#)

[Urdu 104. The Classical Urdu Ghazal and Its Symbolism]

[Urdu 105r. Topics in Urdu-Hindi Literature](#)



[Urdu 106r. Advanced Oral Proficiency in Urdu-Hindi]

\*Urdu 300. Reading and Research

## Special Concentrations

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Degrees in Special Concentrations*

Julie A. Buckler, Professor of Slavic Languages and Literatures (*Chair*)

Allan M. Brandt, Professor of the History of Science (*FAS*) and Amalie Moses Kass Professor of the History of Medicine (*Medical School*)

Peter Buck, Senior Lecturer on the History of Science

Deborah D. Foster, Senior Lecturer on Folklore and Mythology (*Director of Undergraduate Studies*)

Jason A. Kaufman, John L. Loeb Associate Professor of the Social Sciences

Stephen M. Kosslyn, John Lindsley Professor of Psychology

Karel F. Liem, Henry Bryant Bigelow Professor of Ichthyology (*on leave spring term*)

Elizabeth D. Lyman, Assistant Professor of English and American Literature and Language (*on leave 2005-06*)

Robb Moss, Rudolf Arnheim Lecturer on Filmmaking

Sandra Naddaff, Senior Lecturer on Literature and on Comparative Literature

Peter P. Rogers, Gordon McKay Professor of Environmental Engineering

Philip Stone, Professor of Psychology (*on leave fall term*)

Richard K. Wolf, Harris K. Weston Associate Professor of the Humanities

Application forms and information on completing petitions for Special Concentrations may be obtained from the Committee's office, University Hall, First Floor.

#### *Primarily for Undergraduates*

#### **\*Special Concentrations 91r. Supervised Reading and Research**

Catalog Number: 2815

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Fall: 17, 18*

*Note:* Open to Special Concentrations concentrators who wish to pursue supervised study for graded credit in an area not covered by courses currently offered by regular Departments and Committees. Students must secure the written approval of the faculty member with whom they



wish to study and the signature of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations.

**\*Special Concentrations 96r. Senior Projects**

Catalog Number: 0829

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Designed for seniors in their final term completing their senior project to meet the Basic (rather than Honors) requirements for concentration. May be repeated with the permission of the Director of Undergraduate Studies and the Faculty Adviser. Students must secure the written approval of the faculty member with whom they wish to study and the signature of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations.

**\*Special Concentrations 97r. Tutorial — Sophomore Year**

Catalog Number: 2660

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Ordinarily taken by honors sophomores.

**\*Special Concentrations 98r. Tutorial — Junior Year**

Catalog Number: 2497

*Deborah D. Foster and members of the Committee*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Successful completion two terms of \*Special Concentrations 98r are ordinarily required of all honors concentrators in their junior year. Exceptions to this can only be granted with the consent of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations.

**\*Special Concentrations 99. Tutorial — Senior Year**

Catalog Number: 3294

*Deborah D. Foster and members of the Committee*

*Full course. Hours to be arranged.*

*Note:* Ordinarily taken by honors seniors as a full course. Either half year may be taken as a half course only with the consent of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations. Graded Sat/Unsat.

## Statistics



### ***Faculty of the Department of Statistics***

Xiao-Li Meng, Professor of Statistics (*Chair and Co-Head Tutor*)  
 Jose Blanchet, Assistant Professor of Statistics  
 Gopika R. Goswami, Lecturer on Statistics  
 Mark E. Irwin, Lecturer on Statistics  
 Rima Izem, Assistant Professor of Statistics (*Co-Head Tutor*)  
 S.C. Samuel Kou, John L. Loeb Associate Professor of the Natural Sciences  
 Thomas Lee, Visiting Associate Professor of Statistics (*Colorado State University*)  
 Yoonjung Lee, Assistant Professor of Statistics  
 Jun S. Liu, Professor of Statistics  
 Carl N. Morris, Professor of Statistics (*Director of Graduate Studies*) (*on leave spring term*)  
 Erol Pekoz, Visiting Associate Professor of Statistics (*Boston University*)  
 Donald B. Rubin, John L. Loeb Professor of Statistics  
 Kenneth E. Stanley, Lecturer on Statistics (*FAS*) and Lecturer on Biostatistics (*Public Health*)

### ***Other Faculty Offering Instruction in the Department of Statistics***

Arthur P. Dempster, Research Professor of Theoretical Statistics  
 David P. Harrington, Professor of Biostatistics (*Public Health*)  
 Guido W. Imbens, Visiting Professor of Economics (*University of California, Berkeley*) (*fall term only*)  
 Bernard Rosner, Professor of Medicine (*Medical School*)  
 Louise M. Ryan, Professor of Biostatistics (*Public Health*)  
 Matthew C. Stephenson, Assistant Professor of Law (*Law School*)  
 Patrick J. Wolfe, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
 Alan M. Zaslavsky, Professor of Health Care Policy (*Medical School*)

The Statistics Department offers four courses at the introductory level (below Statistics 110). Statistics 100 and 101 (bracketed in 2005–06) are essentially equivalent in terms of their quantitative requirements, but differ in the amount of emphasis placed on different techniques and applications. Statistics 100 emphasizes regression, including multiple regression, which is essential in economics and related fields. Statistics 101 emphasizes analysis of variance, which is widely used in experimentally oriented subjects such as psychology and biology. Statistics 104 combines the content of Statistics 100 and 101, and moves somewhat faster than these courses, assuming a stronger quantitative orientation. Statistics 102 is comparable to Statistics 104 in its technical level, but is specifically oriented toward biomedical applications and techniques.

Generally, Statistics 104 and 101 will be accepted as fulfilling any requirement or prerequisite which is fulfilled by Statistics 100. Consult the Statistics Department or your tutorial office for more information about which courses satisfy your concentration requirements, and for guidance on selecting a course. More detailed information can be accessed through the network at the Statistics Department website at [www.stat.harvard.edu](http://www.stat.harvard.edu).

### ***Primarily for Undergraduates***



**\*Statistics 91r. Supervised Reading and Research**

Catalog Number: 6641

*Rima Izem, Xiao-Li Meng, and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Normally may not be taken more than twice; may be counted for concentration in Statistics if taken for graded credit; may be taken in either term; for further information consult with head tutor.

**\*Statistics 99hf. Tutorial — Senior Year**

Catalog Number: 4381

*Rima Izem, Xiao-Li Meng, and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

The systematic application of statistical ideas to a problem area.

*Note:* In exceptional circumstances, may be taken alternatively as a half course in the spring term only.

***For Undergraduates and Graduates***

**Statistics 100. Introduction to Quantitative Methods**

Catalog Number: 3808

*Louise Marie Ryan (Public Health) (fall term) and David P. Harrington (Public Health) (spring term)*

*Half course (fall term; repeated spring term). M., W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4*

Introduces the key ideas underlying statistical and quantitative reasoning, including fundamentals of probability. Topics may include elements of sample surveys, experimental design and observational studies, descriptive and summary statistics for both measured and counted variables, and statistical inference including estimation and tests of hypotheses as applied to one- and two-sample problems, regression with one or more predictors, correlation, and analysis of variance. Emphasizes simple and multiple regression and applications in nonexperimental fields including, but not limited to, economics.

*Note:* Only one of the following courses may be taken for credit: Statistics 100, 101, 104. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

**[Statistics 101. Introduction to Quantitative Methods]**

Catalog Number: 5128

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*Half course (fall term). Hours to be arranged.*

Covers the same topics as Statistics 100. Emphasizes the analysis of variance, applied in experimental fields such as psychology and other behavioral sciences.

*Note:* Expected to be given in 2006–07. Only one of the following courses may be taken for credit: Statistics 100, 101, 104. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.





### **Statistics 102. Fundamentals of Biostatistics**

Catalog Number: 0266

*Bernard Rosner (Medical School)*

*Half course (spring term). M., W., F., at 11, and a section to be arranged. EXAM GROUP: 4*

An introduction to statistical methods used in biological and medical research. Elementary probability theory, basic concepts of statistical inference, sampling theory, regression and correlation methods, analysis of variance, study design. Emphasis on applications to medical problems.

*Note:* Primarily for undergraduates with medical or biological interests. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

### **Statistics 104. Introduction to Quantitative Methods**

Catalog Number: 4582

*Kenneth E. Stanley (FAS, Public Health)*

*Half course (fall term). M., W., F., at 11, and a section to be arranged. EXAM GROUP: 4*

Covers the same topics as 100 and 101 combined, at a slightly higher level. Applications will be drawn from fields such as economics, behavioral and health sciences, policy analysis, and law.

*Note:* Only one of the following courses may be taken for credit: Statistics 100, 101, 104. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

### **Statistics 110. Introduction to Probability**

Catalog Number: 0147

*Jose Blanchet*

*Half course (fall term). M., W., F., at 12, and a section to be arranged. EXAM GROUP: 5*

A comprehensive introduction to probability. Basics: sample space, conditional probability, Bayes Theorem. Univariate distributions: mass functions and density, expectation and variance, binomial, Poisson, normal, and gamma distributions. Multivariate distributions: joint and conditional distribution, independence, transformation, multivariate normal and related distributions. Limit laws: probability inequalities, law of large numbers, central limit theorem. Markov chains: transition probability, stationary distribution and convergence.

*Note:* This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

*Prerequisite:* Mathematics 21a or equivalent required, concurrent Mathematics 21b or equivalent recommended.

### **Statistics 111. Introduction to Theoretical Statistics**

Catalog Number: 1836

*S.C. Samuel Kou*

*Half course (spring term). M., W., F., at 12; and a weekly section to be arranged. EXAM GROUP: 5*

Basic concepts of statistical inference from frequentist and Bayesian perspectives. Topics include maximum likelihood methods, confidence and Bayesian interval estimation, hypothesis testing, least squares methods, and categorical data analysis.

*Prerequisite:* Statistics 110 and Mathematics 21a and 21b (may be taken concurrently) or equivalent.



### **[Statistics 131. Times Series Analysis and Forecasting]**

Catalog Number: 8291

*Jose Blanchet*

*Half course (spring term). Hours to be arranged.*

An introduction to time series models and associated methods of data analysis and inference. Auto regressive (AR), moving average (MA), ARMA, and ARIMA processes, stationary and non-stationary processes, seasonal processes, auto-correlation and partial auto-correlation functions, identification of models, estimation of parameters, diagnostic checking of fitted models, forecasting, time domain regression approach including Box-Jenkins method, and spectral analysis.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Statistics 111 and 139 or equivalent.

### **Statistics 135. Statistical Computing Software**

Catalog Number: 3451

*Mark E. Irwin*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

An introduction to major statistics packages used in academics and industry (S-Plus, R, SAS). Will discuss data entry and manipulation, implementing standard analyses and graphics, exploratory data analysis, simulation based methods, and programming new methods.

*Prerequisite:* Statistics 110 or 139 (may be taken concurrently) or by permission of instructor.

### **Statistics 139. Statistical Sleuthing Through Linear Models**

Catalog Number: 1450

*Yoonjung Lee*

*Half course (fall term). Tu., Th., 10–11:30 and a section to be arranged. EXAM GROUP: 12, 13*

Formerly “Regression Analysis,” now a serious introduction to statistical inference when linear models and related methods are used. Topics include the pros and cons of t-tools and their alternatives, multiple-group comparisons, linear regressions, model checking and refinement. The emphasis is on statistical thinking and tools for real-life problems, including current events whenever relevant.

*Prerequisite:* Statistics 100 or equivalent and Mathematics 21a and 21b or equivalent.

### **Statistics 140. Design of Experiments**

Catalog Number: 7112

*Rima Izem*

*Half course (spring term). Tu., Th., 1–2:30; . EXAM GROUP: 15, 16*

Statistical designs for the estimation of the effects of treatments in randomized experiments. Topics include brief review of some basic structural inference procedures, analysis of variance, randomized block and Latin square designs, balanced incomplete block designs, factorial designs, nested factorial designs, confounding in blocks, and fractional replications.

*Prerequisite:* Statistics 100 or equivalent and Mathematics 21a and 21b.

### **Statistics 149. Generalized Linear Models**

Catalog Number: 6617

*Mark E. Irwin*



*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An introduction to methods for analyzing categorical data. Emphasis will be on understanding models and applying them to datasets. Topics include visualizing categorical data, analysis of contingency tables, odds ratios, log-linear models, generalized linear models, logistic regression, Poisson regression and model diagnostics. Examples drawn from many fields, including biology, medicine and the social sciences.

*Prerequisite:* Statistics 139 or equivalent.

### **Statistics 160. Design and Analysis of Sample Surveys**

Catalog Number: 2993

*Alan M. Zaslavsky (Medical School)*

*Half course (fall term). Tu., Th., 4–5:30. EXAM GROUP: 18*

Methods for design and analysis of sample surveys. The toolkit of sample design features, their use in optimal sample design strategies, and sampling weights and variance estimation methods (including resampling methods). Brief overview of nonstatistical aspects of survey methodology such as questionnaire design and validation. Additional topics include variance estimation for complex surveys and estimators, nonresponse, missing data, hierarchical models for survey data, and small-area estimation.

*Prerequisite:* Statistics 111 or 139, or permission of instructor.

### **Statistics 171. Introduction to Stochastic Processes**

Catalog Number: 4180

*Erol Pekoz (Boston University)*

*Half course (spring term). Tu., Th., 11:30–1, and a section to be arranged. EXAM GROUP: 13, 14*

An introductory course in stochastic processes. Topics include Markov chains, branching processes, Poisson processes, birth and death processes, renewal theory, queuing theory, Brownian motion, and Martingales.

*Prerequisite:* Statistics 110 or equivalent.

### ***Primarily for Graduates***

### **Statistics 210. Probability Theory and Mathematical Statistics**

Catalog Number: 2487

*Carl N. Morris*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Random variables, their distributions and densities. Families of distributions. Expectation. Independence, product spaces, and joint distributions. Types of convergence. Limit theorems. Conditional probability and expectation, multivariate Normal distribution, conjugate, marginal, and conditional distributions. Inequalities, approximations, and stochastic simulation. Sampling distributions, likelihood function, sufficiency, and information.

*Prerequisite:* Courses in probability and statistics at least at the level of Statistics 110, 111.

### **Statistics 211. Probability Theory and Mathematical Statistics II**

Catalog Number: 1946

*S.C. Samuel Kou*



*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Introduction to statistical inference. Frequency, Bayesian, and decision-theoretic approaches. Likelihood, sufficiency, and exponential families. Testing hypotheses and estimation. Maximum likelihood estimation, likelihood ratio tests, Bayes Factor, models for frequency data, large and moderate sample approximations, including the delta method.

*Prerequisite:* Advanced calculus, Statistics 210, or equivalent.

### **Statistics 212. Probability Theory and Mathematics Statistics III: Special Topics**

Catalog Number: 7637

*Erol Pekoz (Boston University)*

*Half course (fall term). F., 1–4. EXAM GROUP: 6, 7, 8*

Alternate approaches to familiar topics to improve intuition. Measure theory, proof by representation and coupling, approximations via Stein's method, CLT via Brownian motion embedding, law of large numbers via ergodic theorem, renewal theorem via coupling, additional topics.

*Prerequisite:* Statistics 210 and 211, or equivalent.

### **Statistics 214. Causal Inference in Statistics and the Social and Biomedical Sciences**

Catalog Number: 4042

*Donald B. Rubin and Guido W. Imbens (University of California, Berkeley)*

*Half course (fall term). Tu., Th., 2:30–4 and a section to be arranged. EXAM GROUP: 16, 17*

Approaches to causal inference. Covers randomized experiments with and without noncompliance, observational studies with and without ignorable treatment assignment, instrumental variables and sensitivity analysis. A number of applications from economics, medicine, education, etc., are discussed.

### **Statistics 215. Fundamentals of Computational Biology**

Catalog Number: 3304

*Jun S. Liu*

*Half course (spring term). F., 1–4. EXAM GROUP: 6, 7, 8*

Developments in bioinformatics/computational biology: The basics of statistical estimation, BLAST methods and theory, cDNA sequence analysis, clustering and classification methods, data resources, hidden Markov models, Gibbs sampler, microarray analysis, gene regulatory motif discoveries, phylogenetic inference, protein structures, comparative genomics.

### **Statistics 220. Bayesian Data Analysis**

Catalog Number: 6270

*Jun S. Liu*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Basic Bayesian models, followed by more complicated hierarchical and mixture models with nonstandard solutions. Includes methods for monitoring adequacy of models and examining sensitivity of conclusions to change in models.

*Note:* Throughout, emphasis on drawing inferences via computer simulation rather than mathematical analysis.

*Prerequisite:* Statistics 110 and 111.



### **Statistics 221. Statistical Computing Methods**

Catalog Number: 5959

*Gopika R. Goswami*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Computing methods commonly used in statistics: Generation of random numbers, Monte Carlo methods, optimization methods, numerical integration, and advanced Bayesian computational tools such as the Gibbs sampler, Metropolis Hastings, the method of auxiliary variables, marginal and conditional data augmentation, slice sampling, exact sampling, and reversible jump MCMC.

*Note:* Computer programming exercises apply the methods discussed in class.

*Prerequisite:* Linear algebra, Statistics 111, and knowledge of a computer programming language. Statistics 220 is recommended.

### **[Statistics 225. Spatial Statistics]**

Catalog Number: 6499

*Rima Izem*

*Half course (fall term). Hours to be arranged.*

Introduction of three types of spatial data: point pattern, geospatial, and lattice. For each type of data, presentation and application of statistical and computational methods for description, modeling, and analysis.

*Note:* Expected to be given in 2006–07.

### **[Statistics 230. Multivariate Statistical Analysis]**

Catalog Number: 5206

*Rima Izem*

*Half course (spring term). Hours to be arranged.*

Probability theory and inference for multivariate distributions, especially the normal and offspring distributions and those arising via multi-level modeling. Includes advanced matrix theory, principal components, and other topics in the theory.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Statistics 210 and 211 or equivalent.

### **Statistics 232. Incomplete Multivariate Data**

Catalog Number: 4196

*Donald B. Rubin*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Methods for handling incomplete data sets with general patterns of missing data, emphasizing the likelihood-based and Bayesian approaches. Focus on the application and theory of iterative maximization methods, iterative simulation methods, and multiple imputation.

*Prerequisite:* Courses in probability (Statistics 110-level), theoretical statistics (Statistics 111-level), and knowledge of regression and linear algebra (Statistics 139-level).

### **Statistics 245. Quantitative Social Science, Law, Expert Witnesses, and Litigation**

Catalog Number: 3488

*Matthew C. Stephenson (Law School) and Donald B. Rubin*

*Half course (spring term). W., 4:45–6:45. EXAM GROUP: 9*



Explores the relationship between quantitative methods and the law via simulation of litigation and a short joint (law student and quantitative student) research project.

*Prerequisite:* Statistics 220, Government 2003, or Economics 2120, or substantive equivalent.

### **Statistics 249. Generalized Linear Models**

Catalog Number: 3987

*Rima Izem*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Methods for analyzing categorical data. Visualizing categorical data, analysis of contingency tables, odds ratios, log-linear models, generalized linear models, logistic regression, and model diagnostics.

*Prerequisite:* Statistics 139 or equivalent.

### **Statistics 251. Signal and Image Processing and Inference Using Wavelets**

Catalog Number: 3506

*Xiao-Li Meng, Thomas Lee (Colorado State University), and Patrick J. Wolfe*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Meets with Engineering Sciences 251 but with additional emphasis on statistical modeling and inference. Theory of time-frequency/time-scale methods, methodologies for and motivated by statistical inference and missing-data problems, associated computational algorithms, and fundamental engineering applications.

*Prerequisite:* Engineering Sciences 156 or equivalent, knowledge of probability theory and/or statistics at the level of Statistics 110/111 or above, and programming experience, or permission of instructor.

### **Statistics 270. Stochastic Calculus with Applications to Credit Risk Modeling**

Catalog Number: 3518

*Yoonjung Lee*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Introduces the theory of stochastic integration and differential equations. Topics include Brownian motion, the Poisson process, and martingale representation theory. Current research topics on credit risk modeling will be discussed as applications.

*Prerequisite:* Statistics 110 and 171 or equivalent.

### **Statistics 271. Advanced Stochastic Processes**

Catalog Number: 0875

*Jose Blanchet*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Theory of regenerative processes, Markov processes in general state spaces, rates of convergence to stationarity, CLTs, coupling and exact-simulation using regeneration. Martingales, rare-event analysis via large deviations techniques, diffusion and jump-diffusion processes, functional central limit theorems, stochastic calculus.

### ***Cross-listed Courses***



**Biostatistics 244. Analysis of Failure Time Data**

**\*Biostatistics 250. Probability Theory and Applications II**

**\*Government 3009. Research Workshop in Applied Statistics**

***Graduate Courses of Reading and Research***

**\*Statistics 301. Special Reading and Research**

Catalog Number: 4474

*Jose Blanchet 5017, Arthur P. Dempster 2345, Rima Izem 4944, S.C. Samuel Kou 4054, Yoonjung Lee 5300, Jun S. Liu 3760, Xiao-Li Meng 4023, Carl N. Morris 2178 (on leave spring term), Bernard Rosner (Medical School) 4018, Donald B. Rubin 7966, and Alan M. Zaslavsky (Medical School) 1927*

**\*Statistics 302. Direction of Doctoral Dissertations**

Catalog Number: 3382

*Jose Blanchet 5017, Arthur P. Dempster 2345, Rima Izem 4944, S.C. Samuel Kou 4054, Yoonjung Lee 5300, Jun S. Liu 3760, Xiao-Li Meng 4023, Carl N. Morris 2178 (on leave spring term), Bernard Rosner (Medical School) 4018, Donald B. Rubin 7966, and Alan M. Zaslavsky (Medical School) 1927*

**\*Statistics 303hf. The Practice of Teaching Statistics**

Catalog Number: 3545

*Xiao-Li Meng 4023 and Gopika R. Goswami 5301*  
*Half course (throughout the year). Hours to be arranged.*  
Required of all first-year doctoral students in Statistics.

**\*Statistics 310hfr. Topics in Astrostatistics**

Catalog Number: 2105

*Xiao-Li Meng 4023*  
*Half course (throughout the year). Tu., 10–11:30.*

**\*Statistics 311. Monte Carlo Methods in Scientific Computing**

Catalog Number: 0826

*Jun S. Liu 3760*  
*Half course (spring term). Hours to be arranged.*  
*Prerequisite: Statistics 220 or equivalent.*

**[\*Statistics 315. Computational Biology and Bioinformatics]**

Catalog Number: 0553

*Jun S. Liu 3760*  
*Half course (spring term). Hours to be arranged.*  
*Note: Expected to be given in 2006–07.*

**\*Statistics 321. Stochastic Modeling and Bayesian Inference**

Catalog Number: 4060

*S.C. Samuel Kou 4054*





*Half course (fall term). Hours to be arranged.*

Stochastic processes and their applications in scientific, economic, and financial modeling.  
Bayesian inference about stochastic models based on the Monte Carlo sampling approach.

**[\*Statistics 323. Computational and Statistical Methods in Finance]**

Catalog Number: 4328

*Jose Blanchet 5017*

*Half course (spring term). Hours to be arranged.*

Briefly reviews basic concepts and models in multi-period asset pricing theory. Emphasis then on parameter estimation and calibration as well as computational and statistical issues arising in pricing, hedging, credit risk, and insurance risk modeling.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* Statistics 111 and 171 or equivalent (some exposure to time series analysis at the level of Statistics 131 can be useful but not necessary).

**[\*Statistics 325. Functional Data Analysis]**

Catalog Number: 7747

*Rima Izem 4944*

*Half course (spring term). Hours to be arranged.*

Statistical methods for exploration and analysis of Functional Data (sets of curves, images, or shapes) with applications in biology.

*Note:* Expected to be given in 2006–07.

**\*Statistics 326. Topics in Spatial Statistics**

Catalog Number: 3520

*Rima Izem 4944*

*Half course (fall term). Hours to be arranged.*

**[\*Statistics 332. Topics in Missing Data]**

Catalog Number: 9483

*Xiao-Li Meng 4023 and Donald B. Rubin 7966*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2006–07.

**\*Statistics 370. Topics in Continuous-Time Finance**

Catalog Number: 3593

*Yoonjung Lee 5300*

*Half course (spring term). Hours to be arranged.*

Exposes students to a variety of topics in the Asset Pricing Theory in a continuous-time framework. Basic statistical tools covered included stochastic processes, martingale analysis, and filtering theory.

**\*Statistics 371. Advanced Applied Probability**

Catalog Number: 3595

*Jose Blanchet 5017*

*Half course (spring term). Hours to be arranged.*



The study of limit theorems and efficient computational algorithms for the performance analysis and/or control of complex stochastic systems.

**[\*Statistics 392 (formerly \*Statistics 392hfr). Topics in Statistics]**

Catalog Number: 0925

Donald B. Rubin 7966

*Half course (fall term). Hours to be arranged.*

A range of currently active projects. All involve real applications and require mathematical statistical development. Applications include education, census, political science, biomedical research. Techniques include design of experiments, Bayesian modelling, multiple imputation.

*Note:* Expected to be given in 2006–07.

## Systems Biology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Higher Degrees in Systems Biology*

Pamela A. Silver, Professor of Systems Biology (*Medical School*) (*Chair*)

Michael P. Brenner, Gordon McKay Professor of Applied Mathematics and Applied Physics

Lewis C. Cantley, Professor of Medicine and Professor of Systems Biology (*Medical School*)

Daniel S. Fisher, Professor of Physics and Professor of Applied Physics

Walter Fontana, Professor of Systems Biology (*Medical School*)

Jeremy M. Gunawardena, Senior Lecturer on Systems Biology (*Medical School*)

Stephen C. Harrison, Professor of Biological Chemistry and Molecular Pharmacology and of Pediatrics (*Medical School*)

Marc W. Kirschner, Carl W. Walter Professor of Systems Biology (*Medical School*)

Galit Lahav, Assistant Professor of Systems Biology (*Medical School*)

Eric S. Lander, Professor of Systems Biology (*Medical School*)

L. Mahadevan, Gordon McKay Professor of Applied Mathematics and Mechanics

Timothy J. Mitchison, Hasib Sabbagh Professor of Systems Biology (*Medical School*)

Vamsi K. Mootha, Assistant Professor of Systems Biology (*Medical School*)

Andrew W. Murray, Herchel Smith Professor of Molecular Genetics

Radhika Nagpal, Assistant Professor of Computer Science on the Gordon McKay Endowment

Martin A. Nowak, Professor of Mathematics and of Biology

Erin K. O'Shea, Professor of Molecular and Cellular Biology

Kevin K. Parker, Assistant Professor of Biomedical Engineering on the Gordon McKay Endowment

Tom Rapoport, Professor of Cell Biology (*Medical School*)



Xiaoliang Sunney Xie, Professor of Chemistry and Chemical Biology  
Xiaowei Zhuang, Associate Professor of Chemistry and Chemical Biology and of Physics

***Other Faculty Offering Instruction in Systems Biology***

George M. Church, Professor of Genetics (*Medical School*)  
Gavin MacBeath, Assistant Professor of Chemistry and Chemical Biology  
Brian Seed, Professor of Genetics (*Medical School*)  
Jagesh V. Shah, Assistant Professor of Systems Biology, of Medicine, and of Health Sciences and Technology (*Medical School*)  
Antoine van Oijen, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Systems Biology students should consult course listings from the departments of Biological Sciences, Biophysics, Chemistry, the Division of Engineering and Applied Sciences (Applied Mathematics, Applied Physics, Computer Sciences, Engineering Sciences), and the Division of Medical Sciences.

***For Undergraduates and Graduates***

**Systems Biology 101 (formerly \*MCB 195). A Systems Approach to Biology**

Catalog Number: 8701

Marc W. Kirschner (*Medical School*), Lewis C. Cantley (*Medical School*), Walter Fontana (*Medical School*), and Jeremy M. Gunawardena (*Medical School*)

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

How do the collective interactions of molecules, sub-systems, and cells allow for the adaptive and evolvable behavior of living systems? Quantitative techniques and modeling approaches can shed light on this question. Introduces theoretical tools and computational approaches from mathematics, physics, computer science, and engineering in the context of biological problems and situations. Discusses major unsolved questions in biology, such as what makes living systems good at evolving, and how these approaches may be useful to address them.

*Note:* The course will include an introduction to the use of MATLAB for model-building. In consultation with faculty, students will devise group projects such as theoretical or modeling approaches to a biological system.

*Prerequisite:* Math 1b required, and BS 54 or BS 56 recommended.

**Systems Biology 102. Systems Cell Biology**

Catalog Number: 3642

Timothy J. Mitchison (*Medical School*) and Pamela A. Silver (*Medical School*)

*Half course (spring term). Tu., Th., 4–5:30. EXAM GROUP: 18*

Exploring modern basic cell biology and cutting edge research approaches that used chemical, physical or computational tools to address important problems.

*Note:* For students interested in how their knowledge base can contribute to developing research approaches. Intended for upper-level undergraduates and first-year graduate students in the physical sciences. Little or no cell biology background required.

*Prerequisite:* At least one undergraduate course in molecular biology or biochemistry.



***Cross-Listed Courses for Undergraduates and Graduates***

**[Applied Mathematics 115. Mathematical Modeling](#)**

**[Applied Mathematics 147. Nonlinear Dynamical Systems]**

**[Chemistry 163. Frontiers in Biophysics]**

**[Computer Science 181. Intelligent Machines: Perception, Learning, and Uncertainty](#)**

**[Engineering Sciences 145. Introduction to Systems Analysis with Physiological Applications](#)**

**[Engineering Sciences 156. Signals and Systems](#)**

**[Mathematics 153. Mathematical Biology-Evolutionary Dynamics](#)**

**[MCB 111 \(formerly MCB 211\). Mathematics in Biology](#)**

**[\\*MCB 155. Molecular Mechanisms of Gene Control](#)**

**[MCB 173. Optical Imaging in the Biological Sciences]**

***Cross-Listed Courses Primarily for Graduates***

**[Applied Physics 269r. Topics in Statistical Physics and Quantitative Biology]**

**[BCMP 200. Molecular Biology](#)**

**[BCMP 201. Proteins: Structure, Function and Catalysis](#)**

**[BCMP 207. Molecular Approaches to Drug Action, Discovery, and Design](#)**

**[Biophysics 204. Structural Biology From Molecules to Cells]**

**[Biostatistics 280. Introduction to Computational Molecular Biology](#)**

**[Cell Biology 201. Molecular Biology of the Cell](#)**

**[Chemical Biology 2100 \(formerly Biophysics 201\). Organic Chemistry for Biologists](#)**

**[Engineering Sciences 215. Advanced Introduction to Systems Analysis with Physiological Applications](#)**

**[Genetics 201. Principles of Genetics](#)**

**[MCB 212. Topics in Biophysics]**

**[Microbiology 200. Molecular Microbiology and Pathogenesis](#)**

***Graduate Courses of Reading and Research***

**\*Systems Biology 300hf. Introduction to Systems Biology Research**

Catalog Number: 4103

*Pamela A. Silver (Medical School) 1595 and members of the Committee*  
*Half course (throughout the year). M., 6–7:30 pm.*

Introductory lectures by faculty in Systems Biology program. Weekly one-hour lectures will introduce the research areas of faculty performing research in systems biology. For more information about this course, please visit the following website:  
[www.courses.fas.harvard.edu/4103](http://www.courses.fas.harvard.edu/4103).

**\*Systems Biology 301. Special Topics in Systems Biology**

Catalog Number: 8834

*Galit Lahav (Medical School) 5247 and members of the Committee*  
*Half course (fall term). W., F., 10–12.*

An exploration of new directions for the field of systems biology. We will identify major



unsolved questions in biology and discuss the possible new approaches to these questions offered by systems biology. For more information about this course, please visit the following website: [www.courses.fas.harvard.edu/8834](http://www.courses.fas.harvard.edu/8834).

**\*Systems Biology 350. Systems Biology Research**

Catalog Number: 8370

*Pamela A. Silver (Medical School) 1595 and members of the Committee*

Upper level Systems Biology students register for this course when they permanently join a lab. Students should register under the supervising PI.

**\*Systems Biology 399. Introduction to Systems Biology: Rotations**

Catalog Number: 5863

*Pamela A. Silver (Medical School) 1595 and members of the Committee*

The course will introduce the research areas of faculty performing research in systems biology. Intended for Systems Biology lab rotations. For more information about this course, please visit the following website: [www.courses.fas.harvard.edu/5863](http://www.courses.fas.harvard.edu/5863).

***Cross-Listed Graduate Courses of Reading and Research***

**\*Computer Science 307,308. Biologically-Inspired Multi-Agent Systems, Distributed Systems, and Computational Biology**

## Ukrainian Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Committee on Ukrainian Studies***

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology (*Chair*)

Patricia R. Chaput, Professor of the Practice of Slavic Languages (*on leave 2005-06*)

Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies

Grzegorz Ekiert, Professor of Government

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

Terry D. Martin, John L. Loeb Associate Professor of the Social Sciences

***Other Faculty Offering Instruction in Ukrainian Studies***

Roman Szporluk, Mykhailo S. Hrushevs'kyi Professor of Ukrainian History, Emeritus

The Standing Committee on Ukrainian Studies was created by vote of the Faculty on October 29,



1974, to facilitate the systematic study of and coordinate work on Ukrainian subjects throughout the departments of the University. No degree specifically in Ukrainian Studies is offered on either the undergraduate or the graduate level. Students wishing to obtain a higher degree in a particular discipline of Ukrainian Studies, such as language, literature, politics, or history, should first fulfill all the requirements of the department of their scholarly discipline (departments of Government, History, Linguistics, or Slavic Languages and Literatures). Only then should they proceed to the fulfillment of specific qualifications in the Ukrainian aspect of their disciplines under the supervision of the Committee's faculty. The weekly, interdisciplinary Seminar in Ukrainian Studies serves to introduce the methodology, analysis, and specific aspects of Ukrainian disciplines. Attendance at the seminar, therefore, is a prerequisite for any further study.

Working in cooperation with the graduate students and faculty of the Ukrainian Research Institute, founded in June 1973, the Committee sponsors events and activities of interest to specialists in Ukrainian studies. The Institute also maintains a research library and publications office. Specific questions concerning Ukrainian Studies and requests for the pamphlet describing Ukrainian Studies at Harvard should be addressed to the Director of the Institute, at 1583 Massachusetts Avenue, Cambridge, MA 02138.

### *Primarily for Graduates*

#### **\*Ukrainian 200. Ukrainian Studies: Seminar**

Catalog Number: 7927

*Roman Szporluk, Michael S. Flier, George G. Grabowicz, and staff*

*Full course. M., 4–6. EXAM GROUP: 9*

Interdisciplinary seminar concentrating on methodological aspects of the Ukrainian disciplines. Seminar members and guests from other departments of the University and other universities discuss specific topics from analytical and comparative perspectives. Covers history, philology, linguistics, literature, Orientalism, art, sociology, economics, and political science.

### *Courses of Interest*

#### **Comparative Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course**

#### **Government 1203. East European Politics and Societies**

#### **Linguistics 250. Old Church Slavonic**

#### **Slavic Ga. Beginning Ukrainian I**

#### **Slavic Gb. Beginning Ukrainian II**

#### **\*Slavic Gr. Supervised Readings in Intermediate/Advanced Ukrainian**

**[Slavic 125. Modern Russian in Historical Perspective]**

**[Slavic 165. Survey of 19th-Century Ukrainian Literature ]**

#### **Slavic 169. 20th-Century Ukraine: Literature, Arts, and Society**

#### **Slavic 201. Introduction to East Slavic Languages**

#### **Slavic 223. 19th-Century Ukrainian Poetry**

**[Slavic 292. 20th-Century Ukrainian Prose]**



# Visual and Environmental Studies

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Visual and Environmental Studies*

Marjorie Garber, William R. Kenan, Jr. Professor of English and American Literature and Language and of Visual and Environmental Studies (*Chair*)  
Dominique Bluher, Lecturer on Visual and Environmental Studies (*on leave spring term*)  
Deborah Bright, Shirley Carter Burden Visiting Professor of Photography (*Rhode Island School of Design*) (*fall term only*)  
Giuliana Bruno, Professor of Visual and Environmental Studies  
J. D. Connor, Assistant Professor of Visual and Environmental Studies and of English and American Literature and Language (*Director of Undergraduate Studies for Film Studies*)  
Jonathan Crary, Visiting Professor of Visual and Environmental Studies (*Columbia University*) (*spring term only*)  
Thomas Eggerer, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)  
Maureen Gallace, Visiting Lecturer on Visual and Environmental Studies  
Alfred F. Guzzetti, Osgood Hooker Professor of Visual Arts  
Sharon C. Harper, Assistant Professor of Visual and Environmental Studies  
Tishan Hsu, Visiting Professor of Visual and Environmental Studies (*Sarah Lawrence College*) (*fall term only*)  
Despina Kakoudaki, Assistant Professor of Visual and Environmental Studies and of Comparative Literature  
Chris Killip, Professor of Visual and Environmental Studies  
Gina Kim, Visiting Lecturer on Visual and Environmental Studies (*fall term only*)  
Carrie Lambert-Beatty, Assistant Professor of History of Art and Architecture and of Visual and Environmental Studies  
Annette Lemieux, Professor of the Practice of Visual and Environmental Studies  
Ruth S. Lingford, Visiting Lecturer on Visual and Environmental Studies  
Irene E. Luszti, Visiting Lecturer on Visual and Environmental Studies  
Ross McElwee, Professor of the Practice of Filmmaking  
Helen Mirra, Assistant Professor of Visual and Environmental Studies (*on leave 2005-06*)  
Nancy Mitchnick, Rudolf Arnheim Lecturer on Studio Arts  
Robb Moss, Rudolf Arnheim Lecturer on Filmmaking  
Sergio Muñoz-Sarmiento, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)  
Lorelei M. Pepi, Visiting Assistant Professor of Visual and Environmental Studies (*Rochester Institute of Technology*)  
Stephen Prina, Professor of Visual and Environmental Studies





D. N. Rodowick, Professor of Visual and Environmental Studies (*on leave spring term*)

Jan Schütte, Visiting Professor of Visual and Environmental Studies

John R. Stilgoe, Robert and Lois Orchard Professor in the History of Landscape Development  
(*on leave spring term*)

Paul Stopforth, Lecturer on Visual and Environmental Studies (*Director of Undergraduate Studies*)

Lucien G. Taylor, Assistant Professor of Visual and Environmental Studies and of Anthropology

Muriel Waldvogel, Visiting Lecturer on Visual and Environmental Studies (*fall term only*)

***Other Faculty Offering Instruction in the Department of Visual and Environmental Studies***

John Beardsley, Senior Lecturer in Landscape Architecture (*Design School*) (*spring term only*)

Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and  
Professor of Comparative Literature (*fall term only*)

Jeffrey Huang, Associate Professor of Architecture (*Design School*) (*fall term only*)

Antoine Picon, Professor of the History of Architecture and Technology (*Design School*)

The curriculum of the Department of Visual and Environmental Studies engages both practical and theoretical aspects of the built environment, digital media, drawing, film, painting, performance, photography, printmaking, sculpture, sound, video, and writing.

Courses in studio art and film/video at the introductory level are generally designated with two-digit course numbers and non-introductory studio and production courses with three-digit course numbers. Lectures and seminars in Film Studies as well as in Environmental Studies are all designated with three-digit course numbers. The introductory course in Film Studies, *Literature and Arts B-11, The Art of Film*, can be found in the Literature and Arts B section in the *Courses of Instruction*.

Tutorial course descriptions can be found at the end of the course listings. Tutorials or special research projects may be taken only if they have been approved by the Director of Undergraduate Studies. Application forms for all VES tutorials can be picked up in the VES Department Office or downloaded from the VES website at [www.ves.fas.harvard.edu](http://www.ves.fas.harvard.edu).

In addition to the studio and lecture courses taught by members of the faculty of Visual and Environmental Studies, the department also offers courses jointly with the faculty of the Graduate School of Design. Attention is also called to courses listed in the *Official Register* of the Design School as well as the MIT Institute for Advanced Visual Studies.

Each term the department sponsors a lecture series held at the Carpenter Center for the Visual Arts. These lectures are designed to augment and inform the curriculum of the department and are usually held on Thursday evenings. All concentrators in VES are expected to attend. The events are advertised each term and further information on the lectures and speakers can be found on the department's website at [www.ves.fas.harvard.edu](http://www.ves.fas.harvard.edu).

For further information on the faculty and courses in the Department of Visual and Environmental Studies, requirements for concentration, as well as information on the



undergraduate concentration in Film Studies, please contact the department office located on the 1st Floor of the Carpenter Center for the Visual Arts, 24 Quincy Street or visit our website at [www.ves.fas.harvard.edu](http://www.ves.fas.harvard.edu).

***Primarily for Undergraduates***

**\*Visual and Environmental Studies 10. Drawing: Materials and Methods: Introductory Studio Course**

Catalog Number: 6945 Enrollment: Limited to 15.

*Paul Stopforth*

*Half course (fall term; repeated spring term). Fall: M., W., 1–4; Spring: Tu., Th., 1–4.*

Using a wide variety of graphic media, we explore possibilities and develop responses in the process of drawing. A diverse range of sources and objects function as the basis for much of our work, in which observation, structural principles, and expressive procedures are formulated in the making of drawings.

**[\*Visual and Environmental Studies 11. Drawing the Body: Introductory Studio Course]**

Catalog Number: 6625 Enrollment: Limited to 12.

*Nancy Mitchnick*

*Half course (fall term). Hours to be arranged.*

Using traditional drawing materials, this class will work on developing keen observational skills as well as inventing episodic figural sequences. Drawing from life, and using some material from art, the Internet, imagination, and popular culture, students will work within the traditions of figure drawing, which will include specific anatomical, medical, and historical study. Students will also develop investigations concerning the interior space of bodies with a view toward metaphor, allegory, and narrative.

*Note:* Expected to be given in 2006–07.

**\*Visual and Environmental Studies 12. Implied Narrative: Drawing into Painting: Introductory Studio Course**

Catalog Number: 2792 Enrollment: Limited to 12.

*Nancy Mitchnick*

*Half course (fall term). Tu., Th., 1–4.*

Focuses on the conditions in drawing which lend themselves to understanding the structures of painting as well as drawing to learn perceptual skills. Narratives and ways to invent them visually will be the subject of the studio work and charcoal, ink, and acrylic paint will be the basic mediums. We will begin by working primarily on paper, moving to stretched canvas later in the term.

**\*Visual and Environmental Studies 20ar. Plane Image: Introductory Painting Studio Course**

Catalog Number: 2621 Enrollment: Limited to 12.

*Nancy Mitchnick*

*Half course (fall term). W., 1–4 and 6–9 pm.*

In this entry-level studio course, specific assignments will be used to demonstrate how the materials of painting work. Students will begin by using acrylic paint to work through problem



sets having to do with space and light, and oil paint will be introduced later in the term. We will approach painting as a complex process with clear areas of practice and inquiry. Historical art and contemporary issues will inform individual investigations.

**\*Visual and Environmental Studies 20br. Color and Culture: Introductory Painting Studio Course**

Catalog Number: 4193 Enrollment: Limited to 12.

*Nancy Mitchnick*

*Half course (spring term). W., 1–4 and 6–9 pm.*

This entry-level studio course will feature demonstrations of how the materials of painting work. Slide talks, lectures, critique and student presentations will be the teaching structure. The primary medium will be oil paint and the emphasis will be the nature of color and how it works in painting space. In addition, historical uses of color will be part of our subject and the book *Color and Culture* will be the primary text.

*Note:* In addition to studio work, three short written assignments will be required.

*Prerequisite:* Portfolio presentation or permission of the instructor.

**\*Visual and Environmental Studies 30r. Explorations in Sculpture: Introductory Studio Course**

Catalog Number: 4896 Enrollment: Limited to 12.

*Tishan Hsu (Sarah Lawrence College)*

*Half course (fall term). Tu., 2–5:30, Th., 10–11:30.*

Designed for students interested in exploring the possibilities of three-dimensional art. With a basic understanding of materials, technique, and process, students will be encouraged to develop work emerging from their own sensibilities. In doing so, we will examine the process of how artists have used their responses to the world in making art. Experimentation with a diversity of approaches, methods, and media will be encouraged. Course will include readings, class discussions, critiques and slide lectures.

**\*Visual and Environmental Studies 31r. Bruce Nauman: the End of Art and the Beginning of Sculpture: Introductory Studio Course**

Catalog Number: 7851 Enrollment: Limited to 12.

*Sergio Muñoz-Sarmiento*

*Half course (spring term). M., 3–5, W., 1–5.*

Through Bruce Nauman's visual and written work, this course will navigate the student through challenging problems and questions regarding site, territory, jurisdiction, making, process, interaction, and materiality. We will address how sculpture can be a container of violence, a tool for thought, a vehicle for critique, and a manifestation of laughter.

**\*Visual and Environmental Studies 40a. Introduction to Still Photography: Studio Course**

Catalog Number: 2010 Enrollment: Limited to 30.

*Chris Killip and Sharon C. Harper*

*Half course (fall term). M., W., 9–12; Tu., Th., 9–12; or Tu., Th., 1–4.*

Introduction to still photography through individual and group exercises, with an emphasis on the medium as a vehicle for expression, documentation, and personal vision. Covers necessary technical, historical, and aesthetic aspects of the medium.



*Note:* First meeting for all sections will be Tuesday, Sept. 20, 2005 at 1pm in the Carpenter Center Main Lecture Hall.

**\*Visual and Environmental Studies 40b. Photography: Intermediate Studio Course**

Catalog Number: 6256 Enrollment: Limited to 10.

*Chris Killip*

*Half course (spring term). M., W., 1–4.*

Designed to extend the student's understanding of the process through which meaning is produced in photography. Examines differing approaches to format, context, and presentation through a series of set projects.

*Prerequisite:* VES 40a or equivalent preparation (portfolio presentation).

**\*Visual and Environmental Studies 41. Introduction to Still Photography: Studio Course**

Catalog Number: 7454 Enrollment: Limited to 20.

*Sharon C. Harper*

*Half course (spring term). Tu., Th., 9–12 or Tu., Th., 1–4.*

Introduction to still photography using both Single Lens Reflex and digital cameras, with an emphasis on the medium as a vehicle for expression, documentation, and personal vision. Covers necessary technical, historical, and aesthetic aspects of the medium.

**\*Visual and Environmental Studies 50. Fundamentals of Filmmaking: Studio Course**

Catalog Number: 4907 Enrollment: Limited to 20.

*Robb Moss and Alfred F. Guzzetti*

*Full course. M., 1–5, W., 1–4; or Tu., 1–4, Th., 1–5.*

Introductory exercises in live-action filmmaking culminating in the production of a nonfiction film as a group project in the spring term.

*Note:* First meeting for both sections will be Wednesday, Sept. 21, 2005 from 1–2 pm in Sever Hall, Room B-10.

**\*Visual and Environmental Studies 51a. Fundamentals of Video: Studio Course**

Catalog Number: 7526 Enrollment: Limited to 10.

*Alfred F. Guzzetti (fall term) and Irene E. Lusztig (spring term)*

*Half course (fall term; repeated spring term). Fall Term: M., W., 1–4, with a one-hour lab to be arranged; Spring Term: Tu., Th., 1–4, with a one-hour lab to be arranged.*

A series of nonfiction projects, both individual and collaborative, designed to introduce and explore the range of expressive possibilities in small-format video.

**\*Visual and Environmental Studies 51br. Non-Fiction Video Projects: Intermediate Studio Course**

Catalog Number: 3838 Enrollment: Limited to 10.

*Ross McElwee*

*Half course (fall term). Tu., Th., 1–4.*

Continuation of VES 51a but may be taken separately with permission of the instructor. Each student plans, shoots, and edits a documentary video of his or her design. Working from a proposal approved in advance by the instructor, shooting should take place over the summer. Editing of the documentaries will take place during the fall term. Readings and screenings



augment individual work.

*Note:* In exceptional cases, a student will be permitted to take the course without having filmed over the summer, but the student must have a specific proposal for a documentary that can be both shot and edited during the term.

*Prerequisite:* VES 51a, or another course in live-action film or video.

**\*Visual and Environmental Studies 52a. Introduction to Nonfiction Video: Studio Course**

Catalog Number: 5337 Enrollment: Limited to 10.

*Robb Moss*

*Half course (fall term). Tu., Th., 1-4.*

This class will explore the expressive use of digital cameras and computer editing in the production of various exercises and individual projects.

*Note:* Admission is by interview with the instructor.

**\*Visual and Environmental Studies 53a. Fundamentals of Animation: Studio Course**

Catalog Number: 1360 Enrollment: Limited to 10.

*Ruth S. Lingford*

*Half course (fall term; repeated spring term). W., 1-5; Screenings: F., 1-3.*

An introduction to the possibilities of animation. Using a mixture of traditional and 2D digital tools, students will complete practical exercises which will familiarize them with basic skills and techniques. Screenings and discussions will help develop the specialized thinking needed to understand the discipline.

*Note:* Drawing skills optional, though helpful. Freshmen are encouraged to apply.

**\*Visual and Environmental Studies 53c. Fundamentals of Animation: Studio Course**

Catalog Number: 0888 Enrollment: Limited to 10.

*Lorelei M. Pepi (Rochester Institute of Technology)*

*Half course (spring term). Th., 1-5; Screenings: F., 1-3.*

An introduction to the art of animation. Students will gain an understanding of animation aesthetics, concepts and history through a series of exercises, discussions and screenings. Students will complete a variety of short, guided projects designed to acquaint them with the main elements of animation. Screenings and discussions will provide a conceptual and historical framework for the exercises.

*Note:* Freshmen encouraged to apply.

**\*Visual and Environmental Studies 55r. Personal Documentary: Studio Course**

Catalog Number: 0647 Enrollment: Limited to 10.

*Gina Kim*

*Half course (fall term). M., 7-10 pm; Tu., 1-4.*

Students, in search of original and innovative ways of self-representation, create confessional and/or performative portraits of the self, using digital video. Classes include screening of selected videotapes and personal documentaries as well as discussions and critiques of each participant's work.

*Note:* No previous experience in film or video required.



**\*Visual and Environmental Studies 56r. Stop-Motion Puppet Animation: Studio Course**

Catalog Number: 2692 Enrollment: Limited to 10.

*Lorelei M. Pepi (Rochester Institute of Technology)*

*Half course (fall term). Th., 1–5; Screenings: F., 1–3.*

Stop-Motion animation utilizes puppets, sets, props, lights and camera to create dimensional animation. Students will utilize such materials as found objects, clay, fabricated puppets, armatures, foam rubber, and more. Covered will be character performance, timed movement, storyboarding, constructing and animating basic wire armatures, object-based and organic animation, the basic walk, lip-synch, flying rigs, basic special effects, and how to build simple sets and props.

*Note:* Previous animation experience is preferred but not required. First Meeting: Tuesday, Sept. 20, 6–8 pm in Sever Hall 405.

**\*Visual and Environmental Studies 60r. Interactive Media: Studio Course**

Catalog Number: 7926 Enrollment: Limited to 12.

*Jeffrey Huang (Design School) and Muriel Waldvogel*

*Half course (fall term). Th., at 11 and 1–4.*

Introduces the student to interactive media principles, techniques and concepts through a series of expressive exercises. With a strong emphasis on the interactive character of digital media, we construct a basic vocabulary for future media projects. The course culminates in the development of an interactive installation as a final project.

*Note:* First Meeting: Monday, Sept. 19 at 11 in Sever 402.

*Prerequisite:* At least one VES half-course or permission of the instructor.

**\*Visual and Environmental Studies 80. Loitering: A Studio-Based Seminar: Studio Course**

Catalog Number: 9394 Enrollment: Limited to 12.

*Stephen Prina*

*Half course (spring term). Tu., Th., 1–4.*

You will hang out in the vicinity of culture and make things in response to it. This class is not thematic or linked to any particular discipline.

*Note:* Freshmen encouraged to apply.

**\*Visual and Environmental Studies 96r. Directed Research: Studio Course**

Catalog Number: 7299 Enrollment: Limited to 12.

*Stephen Prina*

*Half course (fall term; repeated spring term). W., 6–9 pm and additional hours to be arranged.*

This course is intended for students who have developed the beginnings of a practice they are prepared to pursue. The motive is to assemble a group of disparate makers who come together to exchange thoughts across disciplines: painting next to photography next to writing next to filmmaking, and so on.

*Note:* Recommended for concentrators in Visual and Environmental Studies in their junior and senior year but also open to sophomores with permission of the instructor.

***Seminars for Studio Concentrators***





**[\*Visual and Environmental Studies 90b. 1977: Seminar]**

Catalog Number: 8161 Enrollment: Limited to 12.

*Stephen Prina*

*Half course (fall term). Hours to be arranged.*

The year 1977 offers two exhibitions for our review: *Europe in the 70s: Aspects of Recent Art* and *Pictures*, both central to an understanding of current art practices. One is an historical survey, the other, an assessment of then current art made in New York City. Documentation of the work in the respective exhibitions, in addition to the discursive forms that surround them, will be the material that this seminar will process.

*Note:* Expected to be given in 2007–08. Primarily intended for junior and senior concentrators in Visual and Environmental Studies. Others admitted with permission of the instructor.

**\*Visual and Environmental Studies 90c. The History of Now: Seminar**

Catalog Number: 2994 Enrollment: Limited to 12.

*Carrie Lambert-Beatty*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

What is the relation between art history and contemporary practice? Students in this course will map the artistic landscape of our own moment, using both conventional art-historical research and alternative methods such as interviews, oral histories, studio visits, and analysis of contemporary periodicals.

*Note:* Primarily intended for junior and senior concentrators in Visual and Environmental Studies. Others admitted with permission of the instructor.

**\*Visual and Environmental Studies 90d. Take It Public: Seminar**

Catalog Number: 2340 Enrollment: Limited to 12.

*Stephen Prina*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Poster work done on the street, interventionist spectacles, speeches at dinner, the intellectual journal are all considered viable forms for the distribution of art, in addition to the clean, well-lighted space where a different set of conventions is engaged. What is entailed in the mounting of an exhibition? What about the politics of lighting? A press release? All epiphenomenal, as well as so-called central, conditions are within the range of possible debate for this class.

*Note:* Expected to be omitted in 2006–07. Primarily intended for junior and senior concentrators in Visual and Environmental Studies. Others admitted with permission of the instructor.

***For Undergraduates and Graduates***

**Visual and Environmental Studies 105. Digital Culture, Space, and Society**

Catalog Number: 5391

*Antoine Picon (Design School)*

*Half course (spring term). Th., 2–5. EXAM GROUP: 16, 17, 18*

Computers and the Internet have transformed our perception of space. They are also synonymous with the development of a new type of society, often characterized as informational. Although its full scope has become visible only in recent decades, the digital revolution is rooted in a relatively long history. This course will examine specific events in the 20th century to explain contemporary questions the digital revolution raises for urban and architectural planning and





design.

*Note:* Offered jointly with the Graduate School of Design as 4337.

**Visual and Environmental Studies 106. Architecture, Science, and Technology: 18th Century to the Present**

Catalog Number: 6986

*Antoine Picon (Design School)*

*Half course (fall term). M., 8:30–11:30.*

Since the first industrial revolution, science and technology have constantly challenged architecture. Technology in particular has represented a powerful source of change for architecture. New materials and structural types have emerged, inducing dramatic changes in the definition of the architectural discipline. From iron construction to digital architecture, the course will study important episodes in this two-century history, for science and technology have not only fostered changes in building techniques, they have shaped architectural culture.

*Note:* Offered jointly with the Graduate School of Design as 4355.

**\*Visual and Environmental Studies 107. Studies of the Built North American Environment since 1580**

Catalog Number: 7883 Enrollment: Limited to 20.

*John R. Stilgoe*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

North America as an evolving visual environment is analyzed as a systems concatenation involving such constituent elements as farms, small towns, shopping malls, highways, suburbs, and as depicted in fiction, poetry, cartography, television, cinema, and advertising and cybernetic simulation.

*Note:* Offered jointly with the Graduate School of Design as 4105.

**\*Visual and Environmental Studies 110r. Marks and Meaning: Studio Course**

Catalog Number: 1012 Enrollment: Limited to 12.

*Maureen Gallace*

*Half course (spring term). M., 1–4 and 6–9 pm.*

This class examines methods and traditions for making drawings. Students begin by attempting to learn how to draw what they see. We investigate how to use drawing as a tool and to understand the psychological meaning behind different kinds of marks. Material instruction includes a range of traditional drawing mediums, and students will keep a journal with sketches, photographs, etc. Designed for students working in any media where mark making is part of the process.

*Prerequisite:* At least one VES half-course in drawing or permission of the instructor.

**\*Visual and Environmental Studies 113r. Altered Landscapes: Studio Course**

Catalog Number: 7020 Enrollment: Limited to 12.

*Paul Stopforth*

*Half course (fall term). Tu., 1–6 pm.*

Traveling to a selected site off campus, students will explore an area with a view to altering the space using a variety of means, none of which will be harmful to the environment. Drawings, photographs, films, or videos of the altered landscapes will be made, and along with additional



materials gathered at the site, will function as sources and points of departure for a series of extended drawings in a wide variety of graphic media.

*Prerequisite:* At least one VES half-course in drawing, or permission of the instructor.

**\*Visual and Environmental Studies 120r. Wallpaper and Grids: Studio Course**

Catalog Number: 7893 Enrollment: Limited to 12.

*Nancy Mitchnick*

*Half course (spring term). Tu., 1–4 and 6–8 pm.*

This is a studio course that introduces historical painting materials. The primary mediums will be fresco, egg tempera, encaustic and oil paint. The organizing principal for the paintings moves between lyrical and geometric arrangements and the primary subject is the “grid.” Students investigate the nature of pigments, supports, and the paint application itself. Readings, demonstrations, guest lectures and slide talks as well as study at the conservation lab will form the base of the instruction.

*Note:* In addition to studio work, three short written assignments will be required.

**\*Visual and Environmental Studies 123r. Post Brush: Studio Course**

Catalog Number: 7463 Enrollment: Limited to 12.

*Annette Lemieux*

*Half course (fall term). M., W., 9-12.*

Using the silkscreen printing process and other mechanical methods, students will create paintings that incorporate images, text, and objects found in popular culture. Through slides, videos, related readings, and informal discussions, students will be introduced to the Pop artists of the 20th century as well as contemporary painters (Johns, Kusama, Lichtenstein, Marisol, Rauschenberg, Riley, Wesselmann, Warhol).

*Prerequisite:* At least one VES studio half-course or permission of the instructor.

**\*Visual and Environmental Studies 124r. The Narrative in Painting: Studio Course**

Catalog Number: 0679 Enrollment: Limited to 12.

*Maureen Gallace*

*Half course (fall term). Tu., 1–4 and 6–9 pm.*

The intention of this class will be to investigate different ways to use, or to effectively imply, narrative in painting. Students will focus on individual projects. Class meets to discuss students’ work in the context of historical and contemporary practices. Emphasis on independent studio time, one-on-one and group discussions of students’ work. In-depth instruction of materials used for oil painting, including surfaces and preparation.

*Note:* Students will be asked to keep drawing and photo journals.

*Prerequisite:* At least one VES studio half-course or permission of the instructor (portfolio presentation).

**\*Visual and Environmental Studies 126r. The Way to Painting (Possibly): Studio Course**

Catalog Number: 3289 Enrollment: Limited to 12.

*Thomas Eggerer*

*Half course (spring term). Tu., Th., 1–4.*

As a “painter” I go through a multitude of preparatory activities in the process of making paintings. Curiosities in a particular subject matter may result in a collection of diverse materials.



Such an archive could spark a plethora of activities aimed at focusing interests and producing objects of aesthetic qualities. This class will give equal attention to those often under-appreciated processes containing a thought or a spontaneity often lost in a “finished” piece of art.

*Prerequisite:* At least one VES studio half-course or permission of the instructor (portfolio presentation).

**\*Visual and Environmental Studies 130r. Criticality, the Body, and “Other” Things: Studio Course**

Catalog Number: 7882 Enrollment: Limited to 12.

*Tishan Hsu (Sarah Lawrence College)*

*Half course (fall term). W., 10-12 and 2-5.*

This class is for students who feel prepared to explore three-dimensional media and object making in greater depth. Along with developing proficiency working with different media, we examine several broad conceptual themes that have informed contemporary art practice to develop a criticality for approaching creative practice. We examine disciplines such as architecture, painting, digital media, video, performance and site-specific work in an interdisciplinary way, and how social, political and technological contexts have influenced artistic practice.

*Prerequisite:* At least one-half course in three-dimensional media, sculpture or equivalent, or permission of the instructor.

**\*Visual and Environmental Studies 133. Art and Law: Theory and Practice: Seminar/Workshop**

Catalog Number: 0083 Enrollment: Limited to 12.

*Sergio Muñoz-Sarmiento*

*Half course (spring term). Tu., 4–6 with additional hours to be arranged. EXAM GROUP: 18*

This course will investigate the relationship between art and law and theory and practice through diverse artistic, theoretical, and legal material. By exploring the discourse of law through assigned art projects, students will engage art as a visual, auditory, and verbal expression of critique and unorthodox ideas. Focus will be on producing work based on class discussions, visual presentations, and assigned readings.

**\*Visual and Environmental Studies 135r. Building Thought: Studio Course**

Catalog Number: 3398 Enrollment: Limited to 12.

*Annette Lemieux*

*Half course (spring term). M., W., 9–12.*

Using a variety of materials and methods, students will build and create artworks that reflect their ideas, with an emphasis and understanding of the language of images, materials, forms, actions, and presentation. Through slides, videos, related readings, and informal discussions students will be introduced to the concerns of conceptual artists of the 20th century to the present.

*Prerequisite:* At least one VES studio half-course or permission of the instructor.

**[\*Visual and Environmental Studies 137. Lay of the Land: Studio Course ]**

Catalog Number: 3090 Enrollment: Limited to 12.

*Stephen Prina*



*Half course (fall term). Hours to be arranged.*

The pursuit of and response to the horizontal in art will be the focus of this studio class. To cite a few examples, abstract expressionist painting, cartography, earthworks, landscape photography, 19th-century German Romantic landscape painting, and Rayograms will provide models of the horizontal that will be points of departure for studio projects, the forms of which will be determined by what the investigation provides. Students will shift medium from project to project.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* At least one VES studio half-course or permission of the instructor.

### **\*Visual and Environmental Studies 140r. Photographic Inquiry: Studio Course**

Catalog Number: 0842 Enrollment: Limited to 12.

*Sharon C. Harper*

*Half course (fall term). Tu., Th., 1–4.*

Class emphasis will be on developing visual ideas for a self-directed photographic inquiry. To contextualize photographic work, evolving concepts of photography will be the subject of readings and discussions. Class will be structured around regular critiques, individual meetings, readings, class discussions, museum visits and visiting artist lectures. Students will create a group of photographs for a final project that are the result of a sustained, self-directed, creative process.

*Prerequisite:* VES 40a or VES 40b or equivalent preparation (portfolio presentation).

### **[\*Visual and Environmental Studies 142br. Mutable Landscape: Studio Course]**

Catalog Number: 7162 Enrollment: Limited to 12.

*Sharon C. Harper*

*Half course (spring term). Hours to be arranged.*

Photographic traditions generated by exploring new territory, such as the American West in the 1800s and Antarctica in the early 1900s, social uses of the landscape, landscape as a reflection of internal experience, and the photographic documentation of land art will inform a final portfolio of photographs that explore a sense of place.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* VES 40a or VES 40b or equivalent preparation (portfolio presentation).

### **\*Visual and Environmental Studies 143r. The Photographer as Auteur: Studio Course**

Catalog Number: 2835 Enrollment: Limited to 12.

*Chris Killip*

*Half course (fall term). M., W., 1–4.*

Explores the way in which some photographic practitioners have questioned accepted photographic conventions and are rejecting the historical orthodoxy in favor of a more subjective statement. Each student is expected to complete a major photographic project that reveals his or her own personal photographic style and preoccupations while still retaining a direct and discernible relationship to the subject.

*Prerequisite:* VES 40a or VES 40b or equivalent preparation (portfolio presentation).

### **\*Visual and Environmental Studies 145br. Contemporary Photographic Practice: Seminar/Workshop**



Catalog Number: 0765 Enrollment: Limited to 12.

*Deborah Bright (Rhode Island School of Design)*

*Half course (fall term). W., 9–12, and additional hours to be arranged.*

Photographic images saturate our environment. More than spoken and written language, photographs take on more power as bearers of meaning. Art photographs cannot be excised from the visual image-world that surrounds us but partake in a complex and rich environment of signs, codes, meanings and pleasures that are both conscious and unconscious. Through reading, discussion, and small-scale photography assignments with in-class critique, students will engage a broad range of issues critical to contemporary photographic literacy.

*Prerequisite:* VES 40a or VES 40b or equivalent preparation (portfolio presentation).

**\*Visual and Environmental Studies 146r. The Photographic Portrait: Studio Course**

Catalog Number: 5743 Enrollment: Limited to 12.

*Chris Killip*

*Half course (spring term). Tu., Th., 9–12.*

An examination of the practical, sociological, historical, and aesthetic issues surrounding portrait photography in parallel with the active participation of each student in his/her own photographic project.

*Prerequisite:* VES 40a or VES 40b or equivalent preparation (portfolio presentation).

**\*Visual and Environmental Studies 150ar. Film Production: Intermediate Studio Course**

Catalog Number: 4692 Enrollment: Limited to 12.

*Jan Schütte and Ross McElwee*

*Half course (fall term). M., W., 1–4.*

Fiction film is a complex art that requires teamwork while at the same time expresses very personal ideas. Students will explore the technical and artistic possibilities of fiction film directing by writing and shooting two short exercises as well as writing and discussing scripts for a spring term project. Students will also learn the techniques of lighting, sound recording and editing.

*Note:* Students will be expected to engage in theoretical cinematic issues as well. Some classic films will be screened and analyzed.

*Prerequisite:* VES 50.

**\*Visual and Environmental Studies 150br. Film Production: Intermediate Studio Course**

Catalog Number: 3934 Enrollment: Limited to 12.

*Jan Schütte*

*Half course (spring term). M., 1–4, W., 1–5, with additional hours to be arranged.*

Students will prepare, shoot and edit a short fiction film based on a script developed in the fall term. Students will be required to be involved in shooting, sound recording and editing on other student films. The work will be discussed extensively in class.

*Prerequisite:* VES 150ar.

**\*Visual and Environmental Studies 152r. Intermediate Video Workshop: Studio Course**

Catalog Number: 8012 Enrollment: Limited to 10.

*Alfred F. Guzzetti*

*Half course (spring term). F., 1–5:30.*



An extended nonfiction or experimental video project of the student's design, supplemented by brief exercises aimed at exploring the capabilities of the medium.

*Note:* Students seeking to enroll should come to the first class meeting with a proposal for a video project to be completed in the course.

*Prerequisite:* One VES half-course in video production.

**\*Visual and Environmental Studies 153ar. Intermediate Animation: Studio Course**

Catalog Number: 5211 Enrollment: Limited to 10.

*Ruth S. Lingford*

*Half course (fall term). Tu., 1–5; Screenings: F., 1–3.*

In this course students plan and produce a single animation project. Additional exercises encourage students to challenge themselves and explore a range of creative possibilities, as well as developing the skills necessary to structure and complete a narrative or non-narrative film.

*Prerequisite:* At least one VES half-course in animation.

**[\*Visual and Environmental Studies 155r. Exercises in Fiction Filmmaking on Video: Intermediate Studio Course]**

Catalog Number: 1844 Enrollment: Limited to 10.

*Jan Schütte*

*Half course (spring term). Hours to be arranged.*

This class will undertake a number of exercises in writing and directing. Students will tackle the unique problems associated with fiction filmmaking (structure, space, music, limitations, blocking, takes, etc.) in several two- or three-minute assignments. In addition to working on an individual film, students will also be expected to work on teams both large and small.

*Note:* Expected to be given in 2006–07. There will be screenings of classic films and discussions of theoretical cinematic issues as well.

*Prerequisite:* At least one VES course in film or video production. VES 150 helpful but not required.

**\*Visual and Environmental Studies 156r. Animating to a Soundtrack: Studio Course**

Catalog Number: 6737 Enrollment: Limited to 10.

*Ruth S. Lingford*

*Half course (spring term). Tu., 1–5; Screenings: F., 1–3; First Meeting: F., Feb 3, 2:00 pm, Sever Hall 405.*

Each student will create a piece of animation in response to an existing soundtrack. Soundtracks may include the work of Harvard musicians, bands and choirs, or the student. The class will study music videos, collaborations with musicians, and sound artists and filmmakers who work to music. Students will find their own ways of generating animated imagery quickly, and will complete a project one to two minutes in length.

*Prerequisite:* At least one VES half-course in animation.

**\*Visual and Environmental Studies 157a. Digital Ethnography I: Studio Course**

Catalog Number: 8779 Enrollment: Limited to 10.

*Lucien G. Taylor*

*Half course (spring term). Tu., Th., 9–12.*

First half of a year-long sequence in which students learn to conduct ethnography using digital





video, audio, and/or still photography. Emphasis is on pre-production and production in the spring, and on post-production in the fall.

*Note:* Interview with instructor and teaching assistant required for admission.

*Prerequisite:* At least one course in live action film or video.

**[\*Visual and Environmental Studies 157b. Digital Ethnography II: Studio Course]**

Catalog Number: 5283 Enrollment: Limited to 10.

*Lucien G. Taylor*

*Half course (fall term). Hours to be arranged.*

Second half of a year-long sequence in which students learn to conduct ethnography using digital video, audio, and/or still photography. Emphasis will be on post-production of a project developed for VES 157a.

*Note:* Expected to be given in 2006–07. Interview with instructor and teaching assistant required for admission.

*Prerequisite:* VES 157a.

**\*Visual and Environmental Studies 158. Based On: Screenwriting Seminar**

Catalog Number: 3961 Enrollment: Limited to 12.

*Jan Schütte*

*Half course (fall term). Tu., 11:30-1; F., 3:30-6. EXAM GROUP: 8, 9*

Students will compare and analyze a number of novels and the films based on them. This will involve reading the novels, the scripts, and viewing the films (screenings will be on Friday afternoons). Students will develop a script structure based on a chosen novel which has not yet been made into a film. Students will also be expected to engage in the theoretical, literary, and cinematic issues around these works.

*Prerequisite:* At least one VES course in film or video production.

**\*Visual and Environmental Studies 159. Film Theory/Film Practice: Seminar/Workshop**

Catalog Number: 2551 Enrollment: Limited to 12.

*Despina Kakoudaki and Robb Moss*

*Half course (spring term). Tu., Th., 1–4.*

Alternating between analysis and production, this course will explore the ways in which the theoretical and the practical influence each other in the thinking about and the making of motion pictures.

**[\*Visual and Environmental Studies 160. Modernization in the Visual US Environment, 1890–2035 ]**

Catalog Number: 6668 Enrollment: Limited to 20.

*John R. Stilgoe*

*Half course (spring term). Hours to be arranged.*

Modernization of the US visual environment as directed by a nobility creating new images and perceptions of such themes as wilderness, flight, privacy, clothing, photography, feminism, status symbolism, and futurist manipulation as illustrated in print-media and other advertising enterprise.

*Note:* Expected to be given in 2006–07. Offered jointly with the Graduate School of Design as





4303.

*Prerequisite:* VES 107 or permission of the instructor.

**\*Visual and Environmental Studies 166. North American Seacoasts and Landscapes, Discovery to Present: Seminar**

Catalog Number: 5873

*John R. Stilgoe*

*Half course (fall term). Tu., 1–3 and an hour to be arranged. EXAM GROUP: 15, 16*

Selected topics in the history of the North American coastal zone, including the seashore as wilderness, as industrial site, as area of recreation, and as artistic subject; the shape of coastal landscape for conflicting uses over time; and the perception of the seashore as marginal zone in literature, photography, painting, film, television, and advertising.

*Note:* Offered jointly with the Graduate School of Design as 4304.

*Prerequisite:* VES 107 and VES 160, or permission of the instructor.

**[\*Visual and Environmental Studies 167. Adventure and Fantasy Simulation, 1871-2036: Seminar]**

Catalog Number: 4902

*John R. Stilgoe*

*Half course (spring term). Hours to be arranged.*

Visual constituents of high adventure since the late Victorian era, emphasizing wandering woods, rogues, tomboys, women adventurers, faerie antecedents, halflings, crypto-cartography, Third-Path turning, martial arts, and post-1937 fantasy writing as integrated into contemporary advertising, video, computer-generated simulation, and designed life forms.

*Note:* Expected to be given in 2006–07. Offered jointly with the Graduate School of Design as 4305.

*Prerequisite:* VES 107, VES 160, and VES 166, or permission of the instructor.

**Visual and Environmental Studies 168. Theories and Practices of Contemporary Landscape Architecture: 1950 to the Present**

Catalog Number: 3978

*John Beardsley (Design School)*

*Half course (spring term). Tu., 11:30–1; W., 11:30–2. EXAM GROUP: 13, 14*

Practice, according to Garrett Eckbo, is “knowing how to do something; theory is knowing why.” We explore the “know why” of landscape architecture since the Second World War, juxtaposing both the built works and the writings of landscape architects with texts that address the discipline’s larger theoretical cultural contexts. Within this broad framework, we examine a series of topics, including, the quest for a modern language for landscape architecture in the 1950s and 1960s.

*Note:* Offered jointly with the Graduate School of Design as 3102.

**Visual and Environmental Studies 171h. Histories of Cinema I: Moving Pictures from the 1890s to the 1930s**

Catalog Number: 1971

*Despina Kakoudaki*

*Half course (fall term). M., W., at 11, Screenings: Tu., 4–6:30 pm; Weekly sections to be*



*arranged. EXAM GROUP: 4*

An introductory course in the history of the first decades of cinema. Focuses on the relationship of early moving pictures to other visual technologies, representational and narrative experiments and traditions, the development of venues and audiences for this new art form, and the work of major early studios and filmmakers.

*Note:* No background in film history or theory required. Required for all students concentrating in Film Studies.

**Visual and Environmental Studies 172h (formerly 171x). Histories of Cinema II: Sound, Space, and Image to 1960**

Catalog Number: 6997

*J. D. Connor*

*Half course (spring term). M., W., at 11, Screenings: Tu., 4-6:30; Weekly sections to be arranged. EXAM GROUP: 4*

An introductory course in the history of the sound film covering major transformations (technological, industrial, social, narrative, political, and identitarian) and landmark films from the advent of synchronized dialogue to the end of the classical studio era.

*Note:* No background in film history or theory required. Required for all students concentrating in Film Studies.

**Visual and Environmental Studies 174c. Film and Photography, Ontology and Art**

Catalog Number: 8352

*D. N. Rodowick*

*Half course (fall term). Tu., 1-3. EXAM GROUP: 15, 16*

A critical survey of the principal authors, concepts, and films in the classical period of film theory. We will study the aesthetic debates of the period in their historical context, whose central questions include: Is film an art? If so, what specific and autonomous means of expression define it as an aesthetic medium? What defines the social force and function of cinema as a mass art?

*Note:* Weekly readings and discussion will examine major film movements—for example, French Impressionism and Surrealism—as well as the work of key figures such as Hugo Münsterberg, Rudolf Arnheim, Jean Epstein, Germaine Dulac, Béla Balázs, Erwin Panofsky, Siegfried Kracauer, Walter Benjamin, André Bazin and Stanley Cavell.

*Prerequisite:* VES 170a or equivalent class, or permission of the instructor.

**[\*Visual and Environmental Studies 175a. Autobiography and Film: Seminar]**

Catalog Number: 3084

*Dominique Bluher*

*Half course (spring term). Hours to be arranged.*

Cinema offers many ways of telling one's own story which range from fictional features to essay films and works that use found footage. This seminar examines film history's various modes of autobiographical discourse in the context of philosophical and psychoanalytic considerations of the self as well as of experiments in literary and pictorial self-representation.

*Note:* Expected to be given in 2007-08.

*Prerequisite:* At least one course in Film Studies or permission of the instructor.



**[Visual and Environmental Studies 177 (formerly Comparative Literature 183). Film and the Human Body]**

Catalog Number: 8403

*Despina Kakoudaki*

*Half course (spring term). Hours to be arranged.*

This class explores the challenges of representing the human body on film. Working through a variety of traditions and theoretical models, we will study the cinematic body as a presence and as a surface, and think about how it reflects our assumptions about interiority, potentiality, emotional content, transformability, and resilience. We will address issues of gender, race, and sexuality through feminist, phenomenological, and post-structuralist film theory.

*Note:* Expected to be given in 2007–08. No background in film history or theory required.

**Visual and Environmental Studies 179a. Origins of Modern Visual Culture**

Catalog Number: 1079 Enrollment: Limited to 60.

*Jonathan Crary (Columbia University)*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

This course will cover the major developments in the emergence of modern visual culture in Europe and North America. Topics include the panorama, diorama, photography, painting, urbanization, world fairs, and early cinema. Focus on the social and subjective consequences of the modernization of perception.

**[Visual and Environmental Studies 180. The Moving Image: Film, Modernity, and Visual Representation]**

Catalog Number: 2874

*Giuliana Bruno*

*Half course (fall term). Hours to be arranged.*

This survey of film history looks at major 20th-century ideas on film, art, and perception. It looks at “motion” pictures as a product of modernity, born of specific motion studies, as well as aesthetic and cultural mobility. It relates film to changes in our experience of visual space and follows the evolution of cinema as a technique of observation. The selected films engage aspects of cultural movement including home(land), cityscape, voyage, and socio-sexual space.

*Note:* Expected to be given in 2007–08. Offered jointly with the Graduate School of Design as 4131.

**Visual and Environmental Studies 181. Frames of Mind: Approaches to Film Theory**

Catalog Number: 0648

*Giuliana Bruno*

*Half course (spring term). Th., 10–11:30, Screenings: W., 7-9 pm; Weekly sections to be arranged. EXAM GROUP: 12, 13*

Introduction to the language of film theory, aimed at developing analytic skills to interpret films. A historical survey that spans turn-of-the-century scientific motion studies to the emotion studies of Hugo Münsterberg, and reaches the virtual movements of our new millennium. Considers Eisenstein’s theory of montage, the cultural history of the cinematic apparatus, and the body of physical existence, going from Kracauer to gender studies. Different theoretical positions open up our understanding of films, and guide us in reading them.



*Note:* Expected to be omitted in 2006–07. Offered jointly with the Graduate School of Design as 4132.

**\*Visual and Environmental Studies 182. Film Architectures: Seminar**

Catalog Number: 6864 Enrollment: Limited to 12.

*Giuliana Bruno*

*Half course (fall term). W., 2–4, Screenings: Tu., 7–9 pm. EXAM GROUP: 7, 8*

What is our experience of architecture in cinema? Considering the relation of these two arts of space, we look at how film and architecture are linked in history on the “screen” of the modern age. Highlighting the interaction of modernity, urban culture, and cinema, we explore the architecture of film in relation to the architectures of transit and the culture of travel. Emphasis on readings and case study analysis to pursue research projects and make presentations.

*Note:* Expected to be omitted in 2006–07. Active participation in seminarial endeavors is required. Offered jointly with the Graduate School of Design as 4351.

*Prerequisite:* A course in film studies or the equivalent course in cultural studies.

**Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts**

Catalog Number: 5736

*Giuliana Bruno and Svetlana Boym*

*Half course (fall term). Th., 11:30–1, Screenings: W., 7–9 pm; Weekly sections to be arranged. EXAM GROUP: 13, 14*

How do visual representation and narrative figuration contribute to construct urban identity? Explores the urban imagination in different artforms: architecture, cinema, literature, photography, and painting. Topics to be mapped out include: cities and modernity, metrophilia and metrophobia, the museum and cultural archaeology, the ruin and the construction site, interior space and public sphere, technology and virtual cities. The montage of imaginary cities traverses aspects of different urban environments. This year, we focus on the European city, as we travel through Paris, Berlin, St. Petersburg, Moscow, Naples, and Rome.

*Note:* Expected to be omitted in 2006–07. Offered jointly with the Graduate School of Design as 4353.

**\*Visual and Environmental Studies 185x. Texture Analysis: Film, Fashion, and Material Culture: Seminar**

Catalog Number: 1575 Enrollment: Limited to 12.

*Giuliana Bruno*

*Half course (spring term). W., 2–4, Screenings: Tu., 7–9 pm. EXAM GROUP: 7, 8*

Film and fashion are most powerful image-makers. They are prime agents of visual expression and objects of material culture. They share a role in conveying identity, commanding identification, creating narratives, and shaping visual trends. Seminar explores their common language. Looks at the culture of fashion and considers both fashion and film as cultural “fabric.” Explores, in particular, the current intersection of fashion with contemporary visual arts. Reading in history and theory of the media will be accompanied by film analysis. Seminar will conduct a close text(ur)al analysis of *In the Mood for Love*, a film by Wong Kar-Wai.

*Note:* Expected to be omitted in 2006–07. Offered jointly with the Graduate School of Design as 4354.

*Prerequisite:* A course in film studies or the equivalent course in cultural studies.



**[Visual and Environmental Studies 187x. New German Cinema: Oppositional Energies and Utopian Designs]**

Catalog Number: 1196

*Eric Rentschler*

*Half course (fall term). Hours to be arranged.*

In 1962 twenty young German directors announced their resolve to revive a moribund national film culture. “New German Cinema” would gain acclaim in the 1970s for interventions marked by subversive narrative strategies and unique formal approaches. We will examine features, shorts, and documentaries by Fassbinder, Herzog, Kluge, Schlöndorf, Straub/Huillet, von Trotta, and Wenders, probing these films’ aesthetic shapes as well as their socio-political and theoretical implications.

*Note:* Expected to be given in 2006–07. No knowledge of German required. Readings, films, and discussions in English.

**Visual and Environmental Studies 188k. Korean Cinema**

Catalog Number: 1547

*Gina Kim*

*Half course (fall term). M., 4-6; Screenings: Hours to be arranged.*

An introduction to the world of Korean cinema focusing on the diverse aesthetic strategies of prominent Korean filmmakers. The class will draw examples from neo-realistic representations of turbulent Korean society after the Korean war (1950-1953) by Yu Hyon-mok, horror films by Kim Ki-yong that allegorize the disintegration of masculinity and patriarchy in the 1970s, emotional exploitations of human relationships by Jang Sun-woo in the 80s, and brutally painful portraits of degraded intellectuals by Hong Sang-soo in the 90s.

*Note:* No knowledge of Korean required.

**Visual and Environmental Studies 189 (formerly Visual and Environmental Studies 189r). Ethnographic Film History and Theory**

Catalog Number: 9619

*Lucien G. Taylor*

*Half course (spring term). Tu., 1–5; Screenings: Tu., 3–5. EXAM GROUP: 15, 16, 17, 18*

Introduction to the history and theory of ethnographic filmmaking, from 1895 to the present day. Different modes of ethnographic and nonfiction filmmaking, including expository, impressionistic, observational, interactive, reflexive, and performative, are contrasted and evaluated for their strengths and weaknesses.

*Note:* Expected to be omitted in 2006–07.

**Visual and Environmental Studies 190f. Contemporary French Cinema**

Catalog Number: 7722

*Dominique Bluher*

*Half course (fall term). Th., 2–4, Screenings: M., 7–9 pm. EXAM GROUP: 16*

Since the 1980s a new generation of independent filmmakers has emerged in France. After examining the cultural and economic contexts for film production in France today, we will study works by a variety of individual directors who have been instrumental in creating new approaches to cinematic narrative, form, and style.



*Note:* No knowledge of French required.

*Prerequisite:* At least one course in Film Studies or permission of the instructor.

**[\*Visual and Environmental Studies 192r. Philosophy and Film: Seminar]**

Catalog Number: 5659 Enrollment: Limited to 12.

*D. N. Rodowick*

*Half course (spring term). Hours to be arranged.*

This seminar explores the relationship of film and film theory to problems in contemporary philosophy. The main topics and themes change from year to year; students should review the course description in the term when the seminar is next offered.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* VES 170a or equivalent class, or permission of the instructor.

**Visual and Environmental Studies 193. History of Video Art**

Catalog Number: 0569

*Carrie Lambert-Beatty*

*Half course (spring term). Tu., Th., at 12; Screenings: Hours to be arranged. EXAM GROUP: 14*

A novelty in the 1960s, video now easily coexists with painting, sculpture, and photography in art museums and galleries. This course will survey artists' use of the video medium since the 1960s. We will consider the history of video art's challenges to and absorption by art institutions, changing debates about the specificity of the medium, and the ways artists working with video have used this powerful technology to address issues personal, aesthetic, and political.

**[Visual and Environmental Studies 194. Figurative and Plastic Narration in Cinema]**

Catalog Number: 8072

*Dominique Bluher*

*Half course (spring term). Hours to be arranged.*

When a film tells a story, we usually think in terms of its narrative content. This course will examine, however, the specifically figurative and plastic aspects of narration, studying films and theories spanning from the beginning of cinema (such as those of Jean Epstein and Sergei Eisenstein) through the figurative inventions of modern and postmodern cinema.

*Note:* Expected to be given in 2006–07.

*Prerequisite:* At least one course in Film Studies or permission of the instructor.

**Visual and Environmental Studies 195. The Contemporary Hollywood Cinema**

Catalog Number: 5982

*J. D. Connor*

*Half course (spring term). M., W., at 12, Screenings: M., 4–6:30 pm; Weekly sections to be arranged. EXAM GROUP: 5*

After surveying the landscape of dead Hollywood (the early sixties), the course examines several potential industrial saviors—auteurism, blaxploitation, pornography, allegory, television, the blockbuster, agents, studios, videotape, the international market—and concludes with a look at the reintegrated mediascape of the present.

***Tutorials, Projects, and Research***





Tutorial proposals will be considered by the Director of Undergraduate Studies only with written permission of the project adviser and if the material to be covered is substantially different from other departmental offerings.

**\*Visual and Environmental Studies 91r. Special Projects, Reading, and Research**

Catalog Number: 9183

*Paul Stopforth and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Open to a limited number of students who wish to carry out a special project under supervision.

Students wishing to enroll in VES 91r must find a member of the faculty to advise the project and submit an application to the Director of Undergraduate Studies.

*Note:* Letter-graded only.

**\*Visual and Environmental Studies 97r. Tutorial — Sophomore Year**

Catalog Number: 0450

*Paul Stopforth and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Individual instruction in subjects of special interest that cannot be studied in regular courses.

Concentrators wishing to take a tutorial in their sophomore year must find a member of the faculty to advise the project and submit an application to the Director of Undergraduate Studies.

*Note:* Optional for sophomore concentrators. Letter-graded only.

**\*Visual and Environmental Studies 98r. Tutorial — Junior Year**

Catalog Number: 1411

*Paul Stopforth and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Individual instruction in subjects of special interest that cannot be studied in regular courses.

Concentrators wishing to take a tutorial in their junior year must find a member of the faculty to advise the project and submit an application to the Director of Undergraduate Studies.

*Note:* Optional for junior concentrators. Letter-graded only.

**\*Visual and Environmental Studies 99. Tutorial — Senior Year (Thesis/Senior Project)**

Catalog Number: 5141

*Paul Stopforth and members of the Department*

*Full course. Hours to be arranged.*

All students wishing to undertake a VES 99 project must have permission of the project adviser before being considered. The Director of Undergraduate Studies must approve all VES 99 projects and all theses must be approved by the VES Honors Board in advance.

*Note:* Optional for senior concentrators. Letter-graded only. Students must be enrolled in VES 99 to do a thesis.

***Cross-listed Courses***

**[African and African American Studies 168. Visual Culture of Latina and African-American Women]**

**[African and African American Studies 183. The African-American Experience in Film:**





1930–1970]

[Anthropology 1645. Exploring Culture Through Film](#)

[\\*Anthropology 2835. Sensory Ethnography I](#)

[Chinese Literature 130. Screening Modern China: Chinese Film and Culture](#)

[Comparative Literature 158. Turning the Century: Culture, Technology, and Representation, 1870–1910]

[Comparative Literature 165. The Holocaust and Problems of Representation]

[Comparative Literature 186. Things Come to Life: Imagining Animated Objects in Literature, Philosophy, and Culture](#)

[\\*Dramatic Arts 4. East Village Performance 1980–90](#)

[Dramatic Arts 30. Design for the Theatre: History and Practice](#)

[\\*Dramatic Arts 31. Designing for the Stage](#)

[\\*English Clr. Screenwriting Workshop](#)

[English 168x. American Cultures and Countercultures of the Sixties](#)

[Foreign Cultures 21. Cinéma et culture française, de 1896 à nos jours]

[Foreign Cultures 76. Nazi Cinema: Fantasy Production in the Third Reich](#)

[French 184. Cinema and the *auteur*]

[French 285r. French Literature: Seminar](#)

[\\*Freshman Seminar 30t. Crafting the Object](#)

[History of Art and Architecture 10. The Western Tradition: Art Since the Renaissance](#)

[History of Art and Architecture 19x. Introduction to African American Art History]

[History of Art and Architecture 174s. Body Image in French Visual Culture: 18th and 19th Century]

[History of Art and Architecture 175w. Pop Art]

[\\*History of Art and Architecture 277s. Circa 1970](#)

[History of Science 152. Filming Science]

[Literature and Arts B-11 \(formerly Visual and Environmental Studies 170a\). The Art of Film](#)

[Literature and Arts B-20. Designing the American City: Civic Aspirations and Urban Form]

[Literature and Arts B-24. Constructing Reality: Photography as Fact and Fiction](#)

[Slavic 144. Russian Cinema: Between Art and Propaganda](#)

## Women, Gender, and Sexuality

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Committee on Degrees in Studies of Women, Gender, and Sexuality*



Afsaneh Najmabadi, Professor of History and of Studies of Women, Gender, and Sexuality  
(*Chair*) (*on leave spring term*)  
 Alice Jardine, Professor of Romance Languages and Literatures and of Studies of Women,  
Gender, and Sexuality (*Acting Chair, spring term*)  
 Janet Beizer, Professor of Romance Languages and Literatures (*on leave spring term*)  
 Mary C. Brinton, Reischauer Institute Professor of Sociology  
 Giuliana Bruno, Professor of Visual and Environmental Studies  
 Glenda R. Carpio, Assistant Professor of African and African American Studies and of English  
and American Literature and Language (*on leave fall term*)  
 Nancy F. Cott, Jonathan Trumbull Professor of American History  
 Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women,  
Gender, and Sexuality (*on leave 2005-06*)  
 Drew Gilpin Faust, Lincoln Professor of History  
 Lynn M. Festa, Gardner Cowles Associate Professor of English and American Literature and  
Language (*on leave fall term*)  
 Evelyn M. Hammonds, Professor of the History of Science and of African and African  
American Studies  
 Susan M. Kahn, Lecturer on Near Eastern Languages and Civilizations  
 Despina Kakoudaki, Assistant Professor of Visual and Environmental Studies and of  
Comparative Literature  
 Ewa Lajer-Burchard, Harvard College Professor and Professor of History of Art and  
Architecture (*on leave 2005-06*)  
 Frank W. Marlowe, Associate Professor of Anthropology  
 Christie McDonald, Smith Professor of French Language and Literature  
 Tamara Metz, Lecturer on Social Studies and on Government  
 Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time  
Warner Endowment  
 Carol J. Oja, William Powell Mason Professor of Music  
 Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the  
History of Science and of Studies of Women, Gender, and Sexuality  
 Sharmila Sen, Assistant Professor of English and American Literature and Language  
 Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and  
Professor of Comparative Literature  
 Mary M. Steedly, Professor of Anthropology  
 Judith Surkis, Associate Professor of History and of History and Literature  
 Laurel Thatcher Ulrich, Harvard College Professor and James Duncan Phillips Professor of Early  
American History  
 Kath Weston, Senior Lecturer on Studies of Women, Gender, and Sexuality (*Director of Studies*)

***Affiliated Members of the Committee on Degrees in Studies of Women, Gender, and Sexuality***

Leila Ahmed, Victor S. Thomas Professor of Divinity (*Divinity School*) (*on leave 2005-06*)  
 Daniel V. Botsman, Associate Professor of History  
 Julie A. Buckler, Professor of Slavic Languages and Literatures  
 Peter J. Burgard, Professor of German (*on leave 2005-06*)  
 Eileen Cheng-yin Chow, Assistant Professor of Chinese Literary and Cultural Studies



Janet E. Halley, Professor of Law (*Law School*)

Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature

***Other Faculty Offering Instruction in Studies of Women, Gender, and Sexuality***

Robin M. Bernstein, Lecturer on Studies of Women, Gender, and Sexuality (*Assistant Director of Studies*)

Claudia A. Castañeda, Lecturer on Studies of Women, Gender, and Sexuality

Judith M. Halberstam, Visiting Professor of Studies of Women, Gender, and Sexuality (*University of Southern California*)

Devonya N. Havis, Lecturer on Studies of Women, Gender, and Sexuality

Timothy P. McCarthy, Lecturer on History and Literature

Mary Ruggie, Adjunct Professor of Public Policy (*Kennedy School*)

Despina Stratigakos, Lecturer on Studies of Women, Gender, and Sexuality

Rebecca H. Wingfield, Lecturer on Studies of Women, Gender, and Sexuality

***Primarily for Undergraduates***

**[\\*Studies of Women, Gender, and Sexuality 91r. Supervised Reading and Research](#)**

Catalog Number: 6225

*Kath Weston and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

The study of selected topics in studies of women, gender, and sexuality.

**[\\*Studies of Women, Gender, and Sexuality 97. Tutorial-Sophomore Year: Dreams of a Common Language: Feminist Conversations Across Difference](#)**

Catalog Number: 7217 Enrollment: Limited to concentrators.

*Robin M. Bernstein*

*Half course (fall term). M., 1–3 or M., 5–7 pm.*

An introduction to transnational feminist thought. We will think critically about our multiple locations and identities, and then mobilize that understanding toward productive conversation across differences. Focus on the ways in which diverse people have theorized gender, sexuality, race, and nationhood as categories of knowledge. Focus also on activism as a form of theory and a key element of feminist intellectual history.

*Note:* Required of, and limited to, Women, Gender, and Sexuality concentrators in the fall of their first year in the concentration. Juniors should attend the M 1-3 section, and Sophomores should attend the M 5-7 pm section.

**[\\*Studies of Women, Gender, and Sexuality 98r. Tutorial — Junior Year](#)**

Catalog Number: 8094

*Kath Weston and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Ordinarily taken by concentrators for one term in the second term of the junior year.

Concentrators planning to study abroad in the second term should take WGS 98r in the first term of the junior year.



**\*Studies of Women, Gender, and Sexuality 99a. Tutorial — Senior Year**

Catalog Number: 6763

Rebecca H. Wingfield

*Half course (fall term). Hours to be arranged.*

*Note: Both WGS 99a and 99b are required of all concentrators in their senior year.*

**\*Studies of Women, Gender, and Sexuality 99b. Tutorial — Senior Year**

Catalog Number: 5847

Rebecca H. Wingfield

*Half course (spring term). Hours to be arranged.*

*Note: Both WGS 99a and 99b are required of all concentrators in their senior year.*

***For Undergraduates and Graduates***

**Studies of Women, Gender, and Sexuality 1000. The Gender Mystique: An Interdisciplinary Introduction to Fifty Years of Studies on Women, Gender, and Sexuality**

Catalog Number: 5688

Alice Jardine

*Half course (fall term). M., 2–4, and a one hour section to be arranged. EXAM GROUP: 7, 8*

Intensive overview of major topics, problems, and questions raised by the interdisciplinary study of women, gender, and sexuality and the epistemological challenges thus raised to traditional divisions of knowledge. Our approach will be contemporary and our subjects will range across history, science, literature, economics, law, and the mass media, while crossing through feminist, postcolonial, and queer theories.

**Studies of Women, Gender, and Sexuality 1001. Feminist Theory: Conference Course**

Catalog Number: 5590 Enrollment: Limited to 35.

Claudia A. Castañeda

*Half course (fall term). W., 3–5 and a one hour section to be arranged. EXAM GROUP: 8, 9*

This course considers feminist approaches to a variety of contemporary issues and concerns, including: the body; identity; space; technoscience; and hierarchies of race, class, gender, and sexuality in transnational contexts. Space will be made available in the second half of the course to follow student interests as they emerge.

**Studies of Women, Gender, and Sexuality 1002. Counting and Recounting: How to Structure Your Research Project: Seminar**

Catalog Number: 4429 Enrollment: Limited to 15.

Kath Weston

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Introduction to qualitative research design using sample studies, hands-on projects, and discussion of ethical and philosophical issues. Topics include memory, objectivity, confidentiality, power differentials, evidence, and the limits of statistics. Sources range from studies of gender and sexuality to theater troupes such as Culture Clash that work interview material into their performances. Appropriate for humanities and social science students interested in learning interview techniques, narrative analysis, fieldwork, archival work, and how



to frame research questions.

*Note:* Juniors planning for senior thesis research are particularly encouraged to take this seminar.

### **Studies of Women, Gender, and Sexuality 1003. Theories of Sexuality**

Catalog Number: 1386

*Judith M. Halberstam (University of Southern California)*

*Half course (spring term). M., W., at 10, and a one hour section to be arranged. EXAM GROUP: 3*

A critical overview of some of the major psychoanalytical, ethical, historical, anthropological, and cultural inquiries into sexuality, gender, and desire, with special emphasis on the modern period. Topics of study include normativity and its critique; masculinity, femininity, and binary logic; heterosexuality, homosexuality, and bisexuality; transsexualism and transgenderism; family and nation; reproduction and pleasure; performativity, constructivism, and essentialism; economics and ideology; racial and ethnic difference.

### **[Studies of Women, Gender, and Sexuality 1101. Borders and Betrayals: Engendering Cultural Identities]**

Catalog Number: 7763

*Kath Weston*

*Half course (spring term). Hours to be arranged.*

Gender takes different forms as it combines with race/ethnicity, class, nation, sexuality, religion, and other sorts of belonging. Explores how to “think” gender in the context of its many renditions. Topics include the constitution of cultural identities, analytic tools for conceptualizing difference, feminist and nationalist appeals to the figure of the border, identity politics, imagined communities, and conflicts generated when people appear to “cross the line.”

*Note:* Expected to be given in 2006–07.

### **Studies of Women, Gender, and Sexuality 1125 (formerly Women’s Studies 125). Gender and Health**

Catalog Number: 4563

*Mary Ruggie (Kennedy School)*

*Half course (fall term). M., W., at 2; and an hour section to be arranged. EXAM GROUP: 7*

Based on theoretical debates between feminism and science and different understandings of health, illness, and healing, we explore the role of women, the medical profession, and various social institutions in constructing knowledge about gender and health. Among the issues we discuss are health behaviors, reproductive health, STDs, mental health, cancer, and aging. Throughout, we identify differences among women and men of different class, race, and ethnic groups.

### **Studies of Women, Gender, and Sexuality 1132. Making Sex, Bodies, and Seeds: Technologies of Reproduction in Bioscience, Medicine, and the Media**

Catalog Number: 8387

*Claudia A. Castañeda*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Beginning from the premise that “all technologies are reproductive,” this course examines how specific technologies are intertwined with the reproduction of natural and cultural hierarchies of



difference in time and place. Attention will be given to bio-medical (in vitro fertilization, artificial insemination), as well as visual (photography, film, television), and agricultural technologies (high yield, variety seeds, water pumps), and to their significance in trans-national contexts.

**Studies of Women, Gender, and Sexuality 1151. Sex, Rights, and Stereotypes: Queer Culture in America from Stonewall to Gay Marriage**

Catalog Number: 0099 Enrollment: Limited to 35.

*Timothy P. McCarthy*

*Half course (spring term). W., 3–5 and a weekly section to be arranged. EXAM GROUP: 8, 9*

This interdisciplinary course examines queer culture in the US from the early gay rights movement in the 1960s to current debates over gay marriage. Topics include: the relationship between gay rights and other social movements; black feminism; “camp” and disco; 1980s queer radicalism; religion; Broadway and Hollywood; AIDS/HIV; homophobia and the US military; the “DL” phenomenon; sexuality and Hip Hop; bisexuality and gender identity; “metrosexuality”; civil unions, gay marriage, and the 2004 elections.

**[Studies of Women, Gender, and Sexuality 1152. Gender, Colonialism, and Nationalism]**

Catalog Number: 0104

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*Half course (fall term). Hours to be arranged.*

This course draws on feminist, psychoanalytic and postcolonial theories to explore the relations between nationalism, colonialism, gender, and sexuality. Topics include the production of discourses of masculinity and femininity under colonial and nationalist regimes; the making of “perverse” and “respectable” sexualities under nationalism; the role of women as both symbols of the nation and active agents in nationalist struggles. We will examine a variety of cultural texts including theoretical essays, novels, and films.

*Note:* Expected to be given in 2006–07.

**Studies of Women, Gender, and Sexuality 1154. I Like Ike, But I Love Lucy: Women, Popular Culture, and the 1950s: Conference Course**

Catalog Number: 6855

*Alice Jardine*

*Half course (spring term). Tu., 1–3, and a one hour section to be arranged. EXAM GROUP: 15, 16*

A diagnosis and analysis of this formative decade for the US babyboomer. Taught from a cultural studies perspective, the course focuses on gender politics in print media, film, television, and rock of the early cold war era. Topics include: the bomb and TV, the Rosenberg trial, early civil rights movement, beat generation, Hollywood dreams of true love, Elvis Presley, Marilyn Monroe, Lucille Ball, Jack Kerouac, Joe McCarthy, Rosa Parks, and others.

**Studies of Women, Gender, and Sexuality 1160. Thinking Race and Gender: Black Women and Philosophy**

Catalog Number: 2597

*Devonya N. Havis*

*Half course (fall term). M., W., at 11, and a one hour section to be arranged. EXAM GROUP: 4*



Identity is inextricably bound, by choice or circumstance, with gender and race. The course philosophically explores the ways in which race and gender intersect to inform Black women's articulations of self, identity, and community. We will examine Black women's multivocal contestation of controlling images, their theories of social change, and their philosophical perspectives. Texts will include essays, film, videos, and music.

**[Studies of Women, Gender, and Sexuality 1201. Bodies and Boundaries: Conference Course]**

Catalog Number: 1730 Enrollment: Limited to 25.

*Katharine Park*

*Half course (fall term). Hours to be arranged.*

History of the body, with particular attention to gender, from the late Middle Ages to present. Focusing on Europe and the US, course examines ways in which the body has been used to construct boundaries between: male/female, human/non-human, races, the "normal" and the "abnormal," the healthy and the sick. It considers techniques used to enforce those boundaries, from social discipline to surgery to eugenics, and ways in which those boundaries were continually challenged.

*Note:* Expected to be given in 2006–07.

**[Studies of Women, Gender, and Sexuality 1202. Women's Writing and Film in Latin America and the Caribbean]**

Catalog Number: 9230

*Bradley S. Epps*

*Half course (spring term). Hours to be arranged.*

Focuses on 20th-century narrative fiction, testimony, and film by women from a variety of linguistic cultures (French, Spanish, Creole, Maya-Quiché, English, Portuguese), paying special attention to the ties and tensions between feminism and post-colonialism. Other topics include gender and genre; sexuality and the state; social engagement and artistic autonomy; nationality, nationalism, and internationalism; class conflict and the "global market"; family formations and kinship; ritual, and religion; lesbianism, heterosexuality, and bisexuality; authoritarianism and democracy.

*Note:* Expected to be given in 2006–07.

**Studies of Women, Gender, and Sexuality 1401. Liquid Assets and Water Wars: Gender and the Global Water Crisis: Seminar**

Catalog Number: 2280 Enrollment: Limited to 12.

*Kath Weston*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

In many countries women collectively walk more than the distance to the moon just to supply their households with water. This seminar brings readings on the global water crisis into dialogue with gendered critiques of globalization, labor, and rights discourse. Topics include water privatization, commodification of "the commons," women's work securing water, masculinities and watershed restoration, growth of deserts and gendered migration, pollution, water-related inequalities, dam projects, and women's leadership in the water wars.





**Studies of Women, Gender, and Sexuality 1405. Sex and the City: Gender, Architecture, and Space: Seminar**

Catalog Number: 3215 Enrollment: Limited to 12.

*Despina Stratigakos*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

What role does gender play in the theoretical understanding and concrete experience of architecture and urban space? We investigate the significance of gender in the production, use, and representation of architectural and urban spaces, and within the historiography of architectural and urban history. Adopting an interdisciplinary approach, ranging from architectural history to queer theory, the course encourages new ways of thinking about the interrelationships among architecture, urban space, the body, and gendered identities.

**[Studies of Women, Gender, and Sexuality 1406. Melodrama, Camp, and Beyond: Pedro Almodóvar in Cinematic Context]**

Catalog Number: 3799 Enrollment: Limited to 20.

*Bradley S. Epps*

*Half course (spring term). Hours to be arranged.*

An intensive critical examination of Spain's most "successful" director and the Hollywood "women's pictures" of the 1940s–1960s that have so marked his craft. Special attention will be paid to melodrama, camp, and the representation of gender and sexuality and to the specifically Spanish turns of postmodernism, democracy, and consumer culture. Theoretical essays include Bazin, Buñuel, Metz, Heath, Wollen, Doane, Silverman, Kinder, Smith, Williams; films include Almodóvar, Buñuel, Saura, Segura, Vidor, Kazan, Rapper, Ray, Mankiewicz.

*Note:* Expected to be given in 2006–07.

**Studies of Women, Gender, and Sexuality 1408. Tomboys, Angels, and Dolls: Girls in American Culture: Seminar**

Catalog Number: 0185 Enrollment: Limited to 15.

*Robin M. Bernstein*

*Half course (spring term). W., 1–3; . EXAM GROUP: 6, 7*

An interdisciplinary study of girlhood in American culture. Topics include sexuality, race, consumerism, play, violence, and resistance. Texts may include *Lolita*, *Beloved*, *Harriet the Spy*, *Uncle Tom's Cabin*, *Raggedy Ann Stories*, *The Wizard of Oz*, selections from *Crisis* and *The Brownies' Book*, and works by Maya Angelou and Zitkala-Sa. Special focus on Shirley Temple, *Little Orphan Annie* (as comic strip, musical, and film), and the American Girls book/doll series.

**[Studies of Women, Gender, and Sexuality 1452. Women Writing the South Asian Diaspora]**

Catalog Number: 0198 Enrollment: Limited to 15.

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*Half course (fall term). Hours to be arranged.*

This course focuses on literature by women from the Indian subcontinent who have migrated elsewhere in the "South Asian diaspora." Topics include communal memory; the remaking of English; the politics of home/lessness; displacement, exile, and migration. We will pay particular attention to the concept of diaspora and the production of diasporic aesthetic forms in the literature of Syal, Mukherjee, Ali, Lahiri, Mootoo, read alongside theoretical essays on



postcoloniality by Hall, Fanon, Spivak, Bhabha, and Gilroy.

*Note:* Expected to be given in 2006–07.

### **Studies of Women, Gender, and Sexuality 1454. Feminism and Masculinity**

Catalog Number: 0244 Enrollment: Limited to 15.

*Judith M. Halberstam (University of Southern California)*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*

How have feminists discussed, debated and theorized the topic of masculinity? Histories of manhood and masculinity are crucial to theorizing gender in relation to nation, race, sexuality, domesticity, family, and culture. Our readings will challenge us to consider normative and alternative forms of masculinity in texts like “The Full Monty,” “Stone Butch Blues,” “Giovanni’s Room” and “Happy Together” and in scholarly writings by Kobena Mercer, David Eng, Judith Butler, and Dana Nelson among others.

### ***Of Primary Interest***

Courses in the studies of women, gender, and sexuality offered by other departments are cross-listed below. Those listed first focus centrally on the study of women and/or gender. Courses listed as “Of Related Interest” devote at least one specific segment to such questions. Many of the courses may be taken for graduate credit. Courses numbered in the 200s are primarily for graduate students. Students should also investigate offerings in other faculties in which they may cross-register, such as the Graduate School of Education, the Law School, the Medical School, and the Women’s Studies program at the Divinity School.

**Anthropology 1380 (formerly Anthropology 138). The Behavioral Biology of Women**

**Celtic 113. Gaelic Women’s Poetry**

**French 70b. Introduction to French Literature II: Representations of Change From the Romantics to the Present**

**[French 136. Feminist Literary Criticisms]**

**French 180. 20th-Century Women Writing in French**

**\*Freshman Seminar 40s. Bodies and Boundaries**

**[Historical Study A-67. Gendered Communities: Women, Islam, and Nationalism in the Middle East and North Africa]**

**History 1459. Gender and Sexuality in Modern Europe: Conference Course**

**History 1692. Men, Women, and Marriage in the 20th-Century US**

**[History 1854. Gender and Japanese History: Conference Course]**

**History 2912. What is History? Concepts, Practices, Critique: Seminar**

**[History of Art and Architecture 174s. Body Image in French Visual Culture: 18th and 19th Century]**

**Psychology 1705. Psychology of Sex and Gender**

**[Sociology 163. Women and Science: Sociological Aspects]**

**Spanish 184. Sex and Gender in Spanish America: “Man” and “Woman”**

### ***Of Related Interest***

**African and African American Studies 118. African-American History from the Slave Trade to 1900**



[African and African American Studies 191. The Civil Rights Movement: Seminar]

[Economics 1815. Social Problems of the American Economy]

[Foreign Cultures 60. Individual, Community, and Nation in Vietnam](#)

[French 48b. Contemporary French Society](#)

[French 132a. 20th-Century French Fiction I: The Realist Mode]

[Historical Study B-35. The French Revolution: Causes, Processes, and Consequences](#)

[Historical Study B-40. Pursuits of Happiness: Ordinary Lives in Revolutionary America]

[History of Art and Architecture 70. Introduction to Modern Art and Visual Culture, 1700–1990s]

[History of Science 175. Madness and Medicine: Themes in the History of Psychiatry](#)

[Literature and Arts A-16. Lives Ruined by Literature: The Theme of Reading in the Novel](#)

[Literature and Arts C-14. Concepts of the Hero in Greek Civilization](#)

[Literature and Arts C-43. The Medieval Court]

[Moral Reasoning 22. Justice](#)

[Portuguese 44 \(formerly Portuguese 38\). Images of Brazil: Contemporary Brazilian Cinema](#)

[Religion 1725. Buddhism and Social Change: Seminar]

[Spanish 48. Perspectives on Mexico](#)

[Visual and Environmental Studies 180. The Moving Image: Film, Modernity, and Visual Representation]

[Visual and Environmental Studies 181. Frames of Mind: Approaches to Film Theory](#)

[\\*Visual and Environmental Studies 182. Film Architectures: Seminar](#)

[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts](#)

[\\*Visual and Environmental Studies 185x. Texture Analysis: Film, Fashion, and Material Culture: Seminar](#)