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# Core-Curriculum

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

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

Jeremy R. Knowles, Amory Houghton Professor of Chemistry and Biochemistry and Dean of the Faculty of Arts and Sciences (*Chair*)

Peter J. Burgard, Professor of German

Benedict H. Gross, George Vasmer Leverett Professor of Mathematics

Robert P. Kirshner, Professor of Astronomy

Eric S. Maskin, Louis Berkman Professor of Economics (*on leave 1999-00*)

Michael J. Sandel, Harvard College Professor and Professor of Government

Roman Szporluk, Mykhailo Hrushevs'kyi Professor of Ukrainian History and Director of the Ukrainian Research Institute

R. J. Tarrant, Harvard College Professor and Pope Professor of the Latin Language and Literature

William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education (*ex officio*)

### *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 United States 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.

To meet the general aims of the Core requirement, two types of Foreign Cultures courses are offered: one-semester courses devoted to major cultures distinct from that of the United States, taught in English or in the language of those particular cultures, and full-year foreign language courses beyond the introductory level, with substantial cultural content. Departmental courses (including language courses) may not be substituted for Foreign Cultures courses to meet the requirement in this area.

### *Foreign Cultures*

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

Catalog Number: 8312

*Diana L. Eck*

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

An introduction to the ideas and images that shaped classical Indian civilization and which continue to be of significance to the understanding of modern India. Explores three areas of Indian culture: its philosophical perspectives, its social and moral order, and its mythic and visual imagination.

*Note:* Expected to be given in 2000–01.

#### **Foreign Cultures 17. Thought and Change in the Contemporary Middle East**

Catalog Number: 8705

*Nur Yalman*

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

The social and political formation of the countries of the Middle East since the 19th century. Focus on Turkey, Arab countries, Israel, and Iran; how both native and non-native social theorists portray the processes of change, tradition, and history. Orientalist, Marxist, and cultural anthropological theorists are juxtaposed; writers such as Gökalp, Shariati, Fanon are to be situated. Topics include Islam and politics; the impact of the West; culture change; revolutionary movements; mystic orders; ethnicity and alienation; the position of women; “progress.”

*Note:* Expected to be omitted in 2000–01.

#### **Foreign Cultures 19. El poder y lo sagrado: figuras de un conflicto en las literaturas hispanicas**

Catalog Number: 6597

*Luis Fernández-Cifuentes*

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

*12*



Starting with the identification of modern notions of Power (from Horkheimer to Foucault) as well as modern intimations of the Sacred (mostly vis-à-vis Religion), the course will go on to analyze Hispanic representations of both Power and the Sacred—their iconography and, especially, their interaction with each other in certain strategies of seduction and resistance which seem to characterize Hispanic Modernity—in five films and in the works of twenty major contemporary writers, from Galdós to Cortázar, from Unamuno to García Márquez.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish.

### **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 10, and a weekly section to be arranged. EXAM GROUP: 3*

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:* 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 some 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. Multidisciplinary approach. Modern interpretations by such eminent film directors as Cassell, Leconte, Rossellini, Scola, and Wajda. 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, write correct French, and be capable of continuing their studies in higher-level French courses.

*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. Explores French institutions, values, and traditions of the 19th and 20th centuries with emphasis on such authors and film directors as 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 23a. Deutschland vom Kaiserreich zum Dritten Reich**

Catalog Number: 0902

*Maria Tatar*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

A second-year language course using literary texts and cultural documents from the period spanning 1890 to 1939. Discussion of works by Nietzsche, Brecht, Kafka, Mann, and others.

*Note:* Readings in German, class discussions in English and German. Both Foreign Cultures 23a and 23b, not necessarily in sequence, must be taken to fulfill the Foreign Cultures requirement.

*Prerequisite:* German A, German Bab, or equivalent preparation.

### **Foreign Cultures 23b. Oesterreich von Oesterreich-Ungarn zum Anschluss**

Catalog Number: 1451

*Beatrice Hanssen*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

Literary texts and cultural documents from the period spanning 1890 to 1938. Authors include Schnitzler, Hofmannsthal, Freud, Rilke, Musil, Zweig, and others.

*Note:* Readings and lectures in German, class discussions in English and German. Both Foreign Cultures 23a and 23b, not necessarily in sequence, must be taken to fulfill the Foreign Cultures requirement.

*Prerequisite:* German Ca, German Da, Foreign Cultures 23a, or equivalent preparation.

### **Foreign Cultures 26. Industrial East Asia**

Catalog Number: 1656

*Ezra F. Vogel*

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

Traces the course of industrialization in Japan, Korea, Taiwan, Hong Kong, Singapore, and mainland China. Examines the sources and results of this transformation, including problems.

*Note:* Expected to be omitted in 2000–01. For students under the Core requirement, counts as either Foreign Cultures or Historical Study A, but not both.

### **[Foreign Cultures 28. The Religion and Culture of Islam]**

Catalog Number: 2463

*William A. Graham, Jr.*

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

An introduction to Islamic civilization with attention to both its unity and diversity across the vast area where it has predominated since the 7th century A.D. Consideration of its origins, formative development, fundamental institutions, religious thought and practice, literary and artistic achievements, and modern situations in selected cultural areas.

*Note:* Expected to be given in 2000–01.

### **[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., 11:30–1. EXAM GROUP: 13, 14*

Examines literary, philosophical, religious, and political movements of the period 1500–1775, from the Reformation to the Enlightenment. Analysis of the social and political implications of texts from that time and consideration of their critical reception in the 20th century. Focus on the relevance of this early age in German cultural history for our own age. Main topics: Reformation and revolution; the crisis of humanism; nationalism; literature under the sign of war; Enlightenment and postmodernism.

*Note:* Expected to be given in 2000–01. Readings in German, discussions in German and English.

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

### **[Foreign Cultures 31. Introduction to German Culture and Civilization]**

Catalog Number: 0670

*Beatrice Hanssen*

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

Special focus: Revolutionary literature in Germany (1789–1989). How have German writers represented political revolutions and social upheavals, from the French Revolution, the weavers' revolt of 1844, or the Spartacus rebellion, to the so-called November Revolution of 1989? And, conversely, to what extent has literature, especially drama, had an impact on revolutionary events? Authors and figures considered include Schiller, Goethe, Kleist, Arndt, Büchner, Heine, B. von Arnim, Marx, Hauptmann, Luxemburg, Toller, Brecht, Th. Mann, Weiss, Müller, Wolf, Arendt, and Habermas. Films by Brecht, Riefenstahl, and von Trotta.

*Note:* Expected to be given in 2000–01. Readings in German, discussions in German and English.

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

### **[Foreign Cultures 33. Les doctrines politiques et sociales de la France]**

Catalog Number: 4455

*Stanley Hoffmann*

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

A study of the ideas concerning the proper organization of society and of political institutions offered by French political theorists, intellectuals (including literary figures), and major statesmen from the 17th century to the present.

*Note:* Expected to be given in 2000–01. Lectures and sections in French; readings in French and English.

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

Catalog Number: 3196

*William L. Fash*

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

This course highlights the distinctive features of the evolving cultural traditions of Mesoamerica, one of the oldest living civilizations in the world. Precolumbian religion, arts, cultural ecology,



political economy, 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 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 and folklore, the poetry of Negritude, and reggae music. America's interaction is also examined. *Note:* Expected to be omitted in 2000–01.

**[Foreign Cultures 48. The Cultural Revolution]**

Catalog Number: 6474

*Roderick MacFarquhar*

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

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 in order 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:* Expected to be given in 2000–01. 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 (spring term). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

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 2000–01.



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

Catalog Number: 1976

*Hue-Tam Ho Tai*

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

An introduction to the enduring bases of Vietnamese society and culture. Focuses on the impact of change on the individual, the family, the community, and the nation through the ages. The condition of women from primitive times to the socialist present, the relationship between religion and politics, the continuing struggle over land, and the dilemmas of leadership and national integration are examined through a combination of literary and historical documents as well as more analytical materials.

*Note:* Expected to be omitted in 2000–01.

**[Foreign Cultures 62. Chinese Family, Marriage, and Kinship: A Century of Change]**

Catalog Number: 2628

*James L. Watson*

*Half course (fall term). Tu., Th., at 1, and a weekly section to be arranged. EXAM GROUP: 15*  
Examines Chinese culture from the “bottom up” with emphasis on the structure of everyday life. The first half deals with prerevolutionary (noncommunist) society. Topics include marriage and adoption strategies, concubinage, inheritance patterns, gender roles, lineage organization, and life crisis rituals. Second half focuses on postrevolutionary society and Maoist attempts to construct a new culture. Topics include land reform and collectivization, marriage, women’s liberation, changing family organization, antisuperstition campaigns, population control, and the impact of post-Mao reforms. Ethnographic laboratories (sections) examine issues such as footbinding, arranged marriage, and political campaigns.

*Note:* Expected to be given in 2000–01. For students under the Core requirement, counts as either Foreign Cultures or Social Analysis, but not both.

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

Catalog Number: 9028

*Stephen Owen*

*Half course (fall 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 B.C.), 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:* 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 (spring term). M., W., (F.), at 12. EXAM GROUP: 5*

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 United States.

*Note:* Expected to be omitted in 2000–01.

### **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 the dissident art of the 1960s in Russia and Central Europe to the culture of Cold War, perestroika, and beyond. Works by Malevich, Eisenstein, Vertov, Mayakovsky, Babel, Bulgakov, Mandel'shtam, Nabokov, Kundera, Brodsky.

*Note:* Expected to be omitted in 2000–01.

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

Catalog Number: 0603

*Michael Herzfeld*

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

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 given in 2000–01.

### **Foreign Cultures 76. Mass Culture in Nazi Germany: The Power of Images and Illusions**

Catalog Number: 3396

*Eric Rentschler*

*Half course (spring term). M., W., (F.), at 11; Screening, M., 4–6, and a weekly section to be arranged. EXAM GROUP: 4*

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 Joseph 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 Ouex*, *The Broken Jug*, *La Habanera*, *Jew Süss*, and *Kolberg*). Readings provide pertinent



socio-historical backgrounds and important theoretical perspectives.

*Note:* Expected to be omitted in 2000–01. No knowledge of German required.

### **Foreign Cultures 78. Culture-Building and the Emergence of Modern Scandinavia**

Catalog Number: 0671

*Stephen A. Mitchell*

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

Focuses on the nordic world (Denmark, the Faroes, Finland, Iceland, Norway, and Sweden) in the 20th century, but begins with early 19th-century nationalist aspirations tied to folklore collecting and literary movements (e.g., the *Kalevala*). Examines the “valorization” of peasant culture, pre-Christian paganism, and other aspects of nordic cultural history in a wide variety of cultural monuments (e.g., paintings, museum displays, films, and literary works). Traces the question of who shapes public perceptions of “national cultures” in Scandinavia in selected periods, including the Nazi occupation, the “sex, suicide, and socialism” stereotype of the 60s, and contemporary settings (e.g., the Olympic Games).

### **Foreign Cultures 80. The Cultural Identities of Modern Korea**

Catalog Number: 8798

*David McCann*

*Half course (fall term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3*  
Surveys the development of Korean cultural identity in literature, art, music, and the writing of history from the first unified kingdom, Silla, in the seventh century, through the succeeding Koryô and Chosôn kingdoms, and into the first half of the twentieth century. Then examines modern Korea — the Japanese colonial occupation, 1910–1945; liberation, division, and the Korean War, 1945–1953; the separate cultural regimes in north and south; and hopes for reunification — in the context of its cultural productions.

### ***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. Tradition and Transformation in East Asian Civilization: China**

**Historical Study A-14. Tradition and Transformation in East Asian Civilization: Japan**

**[Historical Study A-15. Politics and Society in the Making of Modern India]**

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

The following courses 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-60. France’s Decline and Renovation (1934–1946)]**

**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-40. The Chinese Literati]**

**[Literature and Arts C-49. Cultural China in Contemporary Perspectives]**



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

### *Departmental courses that satisfy the Foreign Cultures requirement*

A listing of departmental courses that can be taken to meet the Foreign Cultures requirement is included in the Core Curriculum section of the *Handbook for Students* (Web site: <http://www.registrar.fas.harvard.edu/handbooks/student>). 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.

## *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 transforming event or group of events. 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 Conflicts and Cooperation in the Modern World

Catalog Number: 5129

*Andrew Moravcsik and Stephen Peter Rosen*

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

**EXAM GROUP: 3**

Why do states go to war? Is international cooperation possible? How is the nature of power changing? Will economic and ecological interdependence bring new conflicts? Will nationalism and ethnic conflicts make world order impossible? To answer such questions, the first half of the



course examines the Peloponnesian War, 19th-century antecedents of 20th-century conflicts, and origins and consequences of the two world wars. The second half focuses on the main international conflicts since 1945 (Cold War, nuclear weapons, decolonization, regional and civil conflicts, international economic conflicts, domestic policies and conflicts that threaten world peace) and attempts to control or solve them.

### **Historical Study A-13. Tradition and Transformation in East Asian Civilization: China**

Catalog Number: 5243

*Peter K. Bol and William C. Kirby*

*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. Tradition and Transformation in East Asian Civilization: Japan**

Catalog Number: 5373

*Andrew Gordon and Mikael Adolphson*

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

The history of Japan from earliest settlements to the present. Japan's pre-modern history presents the challenge of understanding distinctive forms of political activity and social relations, from court noblemen and women to samurai warriors, as well as religious traditions of great depth and literatures of unusual range and power. Japan's modern history presents one of the most striking transformations in world history. For better and sometimes for worse, people in Japan since the mid-19th century have come to share in the dilemmas of modernity that challenge us all. The course examines the pre-modern and modern history of both institutions and ideas, with emphasis on reading selected literary documents as well as historical writings.

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

### **[Historical Study A-15. Politics and Society in the Making of Modern India]**

Catalog Number: 8301

*Pratap Bhanu Mehta and Devesh Kapur*

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

This course examines the complex dynamics of India's emergence and continuation as a vibrant if contentious democracy. It examines the ways in which the Indian democratic experience has shaped and been shaped by its society and economy by asking questions such as: how do India's "traditional" institutions adapt or fail to adapt to modern circumstances? How does it weave itself together as a nation? What is the relationship between its politics and economic outcomes?



What are the strengths and vulnerabilities of its institutions?

*Note:* Expected to be given in 2000–01. For students under the Core requirement, counts as either Historical Study A or Foreign Cultures, but not both.

### **Historical Study A-17. Modern Political Ideologies**

Catalog Number: 2692

*Stanley Hoffmann and Pratap Bhanu Mehta*

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

*GROUP: 12, 13*

Examines those ideas that moved large numbers of people in Europe and America to organized political action in the 19th and 20th centuries, such as democracy, liberty, nationalism, populism, socialism, authoritarian and totalitarian ideas.

*Note:* Expected to be omitted in 2000–01.

### **[Historical Study A-18. Science and Society in the 20th Century ]**

Catalog Number: 5693

*Everett I. Mendelsohn*

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

*GROUP: 5*

Case studies focus on the atom, the gene, the environment, and the computer. The changing nature of the scientific enterprise, its intellectual structures, and its social relations are examined. Aspects of science and war, science and the state, science and totalitarianism, and science and industry are treated. Additional topics include science and inequality; race and gender; and the competition for human and material resources.

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 6861

*John H. Coatsworth*

*Half course (fall term). M., W., 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 never 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 authoritarianism all at the same time. The course also addresses Mexico's complex and ambivalent relationship to external powers, particularly the United States, but only to the extent that doing so can contribute to understanding these three contemporary problems.

*Note:* Expected to be omitted in 2000–01. 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 12, and a weekly section to be arranged. EXAM GROUP: 5*

Examines from a 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—for example: Aquinas, Galileo, Descartes, Newton, Spinoza, and Darwin—but also pay some attention to the historiography on “science and religion.”

*Note:* Expected to be given in 2000–01.

### **Historical Study A-33. Women, Feminism, and History**

Catalog Number: 3555

*Laurel Thatcher Ulrich*

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

From Christine de Pisan in the 14th century to Virginia Woolf in the 20th, women writers have used history to question seemingly unchangeable differences between the sexes. This course examines classic works in Western feminism in the light of contemporary scholarship in women’s history. It emphasizes the range and variety of feminist appropriations of the past, from storytelling to legal briefs, and considers the strengths and pitfalls of historical argumentation. Discussion will focus on close analysis of primary materials.

*Note:* Expected to be omitted in 2000–01.

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

Catalog Number: 1552

*Allan M. Brandt*

*Half course (fall 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 the discovery of the New World. Emphasis placed upon setting the practice of medicine as well as 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 omitted in 2000–01.

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

Catalog Number: 5423

*Cemal Kafadar*

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

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 variety of 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 2000–01.

**[Historical Study A-51. The Modern World Economy, 1873–1998]**

Catalog Number: 1263

*Jeffry Frieden*

*Half course (fall term). M., W., 2–3:30, and a 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 1873–1896 and 1929–1939, and the postwar economic order.

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 1667

*Elizabeth J. Perry*

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

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 omitted in 2000–01.

**[Historical Study A-68. The Making and Remaking of the Modern Middle East]**

Catalog Number: 1845

*Edward Roger Owen*

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

Examines the political and social history of the Arab countries of the Middle East (including North Africa) as well as Iran, Israel, and Turkey. Provides a basis for the understanding of the politics of the region in the late 20th century. Major themes are the creation and transformation of the modern states and of their political systems in the period since World War I, and the transformation of Middle Eastern society during this same period under the impact of colonialism, independence, regional wars, and oil. Attention also paid to theoretical discussions concerning modernization and development, including those which seek to define the role of the state.

*Note:* Expected to be given in 2000–01.



**[Historical Study A-70. International History: The Last Century]**

Catalog Number: 2517

*Akira Iriye*

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

Examines the contemporary world against the background of international relations since the 1890s. Topics include European imperialism and decolonization, the origins and consequences of the two World Wars, the Americanization of the globe, and the rise of a multicultural world. Stresses the interplay of states and non-state actors.

*Note:* Expected to be given in 2000–01.

**Historical Study A-72. The Development of the Modern State**

Catalog Number: 2909

*Peter A. Hall and Thomas Ertman*

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

Explores the way in which the political institutions of the Western world have changed over the past eight centuries. Examines the social and political factors that lie behind the institutional developments of the modern state. Concentrates on Britain, France, and Germany. Discusses both the developmental patterns common to these nations and the divergence in their institutions at critical points in time.

*Note:* Expected to be omitted in 2000–01.

**Historical Study A-74. Continuity and Change in 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 P.R.C. and Taiwan, and explores the future of “Greater China,” in the light of its past.

*Note:* Expected to be omitted in 2000–01.

**[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 given in 2000–01.

**[Historical Study A-78. Nationalism and Socialism (1772–1991)]**

Catalog Number: 4411

*Roman Szporluk*

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

Examines nationalism and socialism as ways of interpreting the world and as programs for changing it. Locates nationalism and socialism in relation to other intellectual and political currents. Reviews the communist treatment of ethnicity in the USSR and the Soviet impact on Eastern Europe thereafter.

*Note:* Expected to be given in 2000–01.

**[Historical Study A-80. The Cold War]**

Catalog Number: 5222

*Ernest R. May*

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

The East-West Cold War that followed World War II forms the background for all thinking about current and future international relations. This course surveys the Cold War’s origins and development, the crises at its climax, and the course of events from the subsequent *détente* down to the present.

*Note:* Expected to be given in 2000–01.

**[Historical Study A-81. Chinese Emigration in Modern Times]**

Catalog Number: 0303

*Philip A. Kuhn*

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

Explores one of the great historic migrations, from the 16th century to the present. Topics include: how migration was related to conditions of late imperial Chinese society; how Chinese interacted with European empires in Southeast Asia and with native peoples; how they developed their economic roles in host societies; and how acculturation and conflict shaped their identities. The experience of Chinese migrants to North America is placed in a world context. Readings emphasize the analysis of primary sources in English.

*Note:* Expected to be given in 2000–01.

**[Historical Study A-83. Civic Engagement in American Democracy]**

Catalog Number: 2361

*Theda Skocpol*

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

Are Americans withdrawing from public life, or just engaging shared concerns in new ways? Changes in U.S. civil society and democracy are lively topics of debate, with attention usually



restricted to the period since the 1960s. A longer-term perspective can sharpen our sense of what is changing and why. Drawing on primary and secondary sources, this course considers how America became a “nation of joiners” and the world’s first mass democracy. The course surveys voluntary associations and political changes from the 19th century through the social movements of the 1960s and 1970s, culminating in a reexamination of the health of American democracy today.

*Note:* Expected to be given in 2000–01.

***Cross-listed Core courses that satisfy the Historical Study 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 Historical Study A or in Foreign Cultures, but not both.

**[Foreign Cultures 26. Industrial East Asia](#)**

***Historical Study B***

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

Catalog Number: 0434

*Angeliki E. Laiou*

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

Examines the decision to launch the First Crusade (1095); Pope Urban II’s motivations; the condition of the church in the Western world and the development of the idea of holy war. Studies the consequences of the First Crusade; expansion of Western Europeans into the Eastern Mediterranean and the Balkans; the development of the crusading movement through the Fourth Crusade (1204); and the permanent transformation of East-West relations resulting from the conflict and coexistence of various peoples whom the Crusades brought together. Considers the relations among political, economic, and religious factors and the consequences in cultural and material spheres. Readings focus on sources in translation.

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 2567

*Michael McCormick*

*Half course (fall 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 A.D. 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 2000–01.



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

Catalog Number: 0623

*Steven Ozment*

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

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 seven major areas: (1) the “causes” of the Reformation; (2) its inception and development in representative cities and lands; (3) competing theologies and social philosophies; (4) the variety of linguistic and visual propaganda; (5) the impact on contemporary society and culture; (6) the Catholic response; (7) the Reformation’s legacy to the modern world.

*Note:* Expected to be omitted in 2000–01.

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

Catalog Number: 4631

*James Hankins*

*Half course (spring term). M., W., (F.), 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:* Expected to be given in 2001–02. For students under the Core requirement, counts as either Historical Study B or Literature and Arts C, but not both.

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

Catalog Number: 5234

*Mark A. Kishlansky*

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

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 omitted in 2000–01.

### **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 2000–01.

### **Historical Study B-42. The American Civil War, 1861–1865**

Catalog Number: 3386

*William E. Gienapp*

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

An examination of the experiences of both the North and the South during the Civil War and the legacy of the war for the United States. Topics include the origins of the war, Abraham Lincoln and Jefferson Davis as war leaders, Union war aims and emancipation, dissent and opposition to the war in the Union and the Confederacy, the Confederate transformation of the South, the northern and southern home fronts, race, the spiritual and economic costs of the war, and the imprint of the war on American politics, society, and values. This is not a course in military history.

*Note:* Expected to be omitted in 2000–01.

### **Historical Study B-46. The Darwinian Revolution**

Catalog Number: 5988

*Everett I. Mendelsohn*

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

An examination of the intellectual structure and social context of ideas of evolution as they developed in the 19th and 20th centuries. Topics include the backgrounds to various forms of evolutionary thought; Darwin’s methodology; the relations between biological and social evolutionary thought; the comparative reception of Darwinian evolutionary theory in Great Britain, France, Germany, Russia, and the U.S.; social Darwinism, eugenics, biological determinism, race, religion, conflict and cooperation.

*Note:* Expected to be omitted in 2000–01.

### **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 United States 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 2000–01.

**[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 2000–01.

**[Historical Study B-60. France’s Decline and Renovation (1934–1946)]**

Catalog Number: 5393

*Stanley Hoffmann*

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

The decadence and rebirth of France in the 20th century. The decline and destruction of the Third Republic confronted with the great depression, the social, political, and intellectual divisions around the Popular Front, and Nazi Germany. The Vichy regime’s attempts at domestic counterrevolution and external collaboration with Germany. The liberation of France by the Resistance movements and General de Gaulle. Successes and limits of post-Liberation political, economic, and social transformations, and of France’s intellectual and diplomatic adaptation to a world dominated by the Cold War and the revolt against colonialism. Special emphasis on historical controversies and on the moral dilemmas faced by the French. Readings include memoirs and literary works.

*Note:* Expected to be given in 2001–02. For students under the Core requirement, counts as either Historical Study B or Foreign Cultures, but not both.

**[Historical Study B-61. The Warren Court and the Pursuit of Justice, 1953–1969]**

Catalog Number: 6840

*Morton J. Horwitz (Law School)*

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

Examines the significance of the Supreme Court during the Chief Justiceship of Earl Warren in the broader context of the development of American thought and society. Explores the basic premise that the Warren Era represented not only a major constitutional revolution but that it produced a fundamental transformation in the conception of the role of law in American society. Subjects to be studied are *Brown v. Board of Education*, the Civil Rights Movement, and the history of race relations; McCarthyism and civil liberties; the emergence of a right to privacy in *Griswold v. Connecticut*; and the “rights” revolution in jurisprudence.

*Note:* Expected to be given in 2001–02.



### **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 U.S.-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 2000–01. For students under the Core requirement, counts as either Historical Study B or Foreign Cultures, but not both.

### **[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 United States from 1945–1975, 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 2000–01.

### ***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]**

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

Catalog Number: 0691

*Judith Ryan*

*Half course (fall 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, Fontane, Wharton, Sartre, Nabokov, Brookner, Barnes, and Ackroyd.

*Note: Expected to be omitted in 2000–01.*

#### **Literature and Arts A-18. Fairy Tales, Children's Literature, and the Culture of Childhood**

Catalog Number: 7478

*Maria Tatar*

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

Analyzes cultural production for children in the larger context of childrearing practices and educational theories. Addresses issues such as the folkloristic and literary representation of the child, the relationship between teller/author and audience, and functional changes in fairy tales and children's books. The varying historical constructions of childhood, the role of parental and institutional interventions, and the disciplinary edge to children's literature are also examined. Authors include Charles Perrault, the Brothers Grimm, Hans Christian Andersen, John Locke, Rousseau, Charlotte Brontë, Lewis Carroll, J.M. Barrie, Henry James, William Golding, and



others.

*Note:* Expected to be omitted in 2000–01.

### **Literature and Arts A-20. Classics in Christian Literature**

Catalog Number: 1177

*Robert Kiely*

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

An examination of selected literary forms and thematic preoccupations of post-Biblical texts in the Christian tradition. Focuses on personal representations of religious experience—the search for faith, narratives of conversion, testimonies of belief, and confessions of doubt. Explores the relationships between aesthetic form (genre, style, voice) and a variety of individual efforts to interpret and reconfigure the claims of the gospels. Authors include Augustine, Teresa of Avila, Juliana of Norwich, Martin Luther, John Donne, Gerard Manley Hopkins, Dietrich Bonhoeffer, and T.S. Eliot.

*Note:* Expected to be omitted in 2000–01.

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

Catalog Number: 5808

*Helen Vendler*

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

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 2001–02.

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

Catalog Number: 6090

*Lino Pertile*

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

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 2000–01.

### **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.

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

Catalog Number: 0176

*Marjorie Garber*

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

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 omitted in 2000–01.

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

Catalog Number: 1624

*Marjorie Garber*

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

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 2000–01.

### **Literature and Arts A-48. The Modern Jewish Experience in Literature**

Catalog Number: 1250

*Ruth R. Wisse*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*  
Studies works in different languages and genres that variously interpret the experience of Jews in this 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, Saul Bellow, and Cynthia Ozick.

*Note:* Expected to be omitted in 2000–01.

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

Catalog Number: 0287

*Werner Sollors*

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

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 2000–01.

### **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 omitted in 2000–01.

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

Catalog Number: 4783

*Lawrence Buell*

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

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 omitted in 2000–01.

### **[Literature and Arts A-66. The Myth of America]**

Catalog Number: 3545

*Sacvan Bercovitch*

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

Inquires into the mythic, aesthetic, and historical meanings of “America,” as represented in major literary works of the 19th and 20th centuries. Examines how these works embody, envision, revise, and respond to such central concepts and tropes of national purpose and identity as individualism, nature, progress, and the American dream; and how these concepts and tropes are affected in turn by historical developments and cultural conflicts.

*Note:* Expected to be given in 2000–01.

### **[Literature and Arts A-68. Poets and Poetry in the Celtic Literary Tradition]**

Catalog Number: 3957

*Patrick K. Ford*



*Half course (spring term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3*  
Examines the role of poets (i.e., “seers, prophets, satirists, singers of praise”) in the development of the Celtic literary tradition from antiquity to recent times. The focus is on the social function of literature, broadly defined, in the Celtic world, and the ways in which poets used their powers of praise and satire in the maintenance of social and political power. Of especial importance is the mythology of poetry, those narratives that tell how wisdom and poetry were first acquired and those that promulgate the magical powers of praise and satire.

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 7991

*Peter Machinist*

*Half course (fall term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14*  
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 given in 2000–01.

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

Catalog Number: 7800

*Leo Damrosch*

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

A study of major 18th-century autobiographical, fictional, and poetic 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, Goethe, Wollstonecraft, and Blake.

**Literature and Arts A-76. Five Japanese Portraits**

Catalog Number: 8909

*Jay Rubin*

*Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4*  
Exploring a broad variety of modern novels and stories in addition to plays, poems and chronicles from earlier ages, the course will present five archetypal “portraits” developed in the medieval No theater — god, man, woman, lunatic, and demon — and trace their variations in texts and films treating themes of celebration, war, memory, madness, and awe.

*Note:* Expected to be omitted in 2000–01.

***Cross-listed courses that satisfy 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**

**Literature and Arts B****Literature and Arts B-10. Art and Visual Culture: Introduction to the Historical Study of Art and Architecture**

Catalog Number: 0149

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

A general introduction to an informed and critical experience of art and architecture, using specific cases to introduce concepts by which the visual arts can be analyzed and understood. Examples are taken from all times and places; most of them are recognized important works. While not attempting to cover the history of art chronologically, the course presents different approaches to art, develops visual discrimination, and examines how visual culture affects us and has functioned in different times and places.

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

Catalog Number: 2267

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

The images of Alexander the Great are examined within various cultural contexts ranging from 4th-century B.C.E. 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-27. Majesty and Mythology in African Art]**

Catalog Number: 5822

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

Examines the royal arts of Africa, at once providing an overview of key themes in royal African art and discussing what these arts reveal about the nature of kingship generally. The diverse ways that African rulers have employed art and architecture to define individual and state identity are considered in the context of key traditions from West, Central, Eastern, and Southern Africa. Among the topics to be discussed are palace architecture, royal regalia, status prerogatives, women of the court, divine kingship, state cosmology, royal burial, enthronement ceremonies, dynastic history, and the importance of art in diplomacy and war.

*Note: Expected to be given in 2001–02.***[Literature and Arts B-31. The Portrait]**

Catalog Number: 4240

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



13

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 2000–01.

**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 11, and a weekly section to be arranged. EXAM GROUP: 13*

“Golden Age” of Ottoman-Islamic visual culture in the 16th century, with focus on architecture, miniature painting, and the decorative arts. The urban transformation of Byzantine Constantinople into Ottoman Istanbul, the formation of an imperial architectural style, and artistic contacts with contemporary European and Islamic courts are stressed. Art and architecture of Safavid Iran and Mughal India are considered as a comparative backdrop. Themes include 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 2000–01.

**Literature and Arts B-39. Michelangelo**

Catalog Number: 0351

*John Shearman*

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

The thread is the career of the man by whom Western artistic genius is largely defined, but the course deals with him in many roles, as sculptor, painter, architect, draftsman, poet, military engineer, and politician, and many of his works lead discussion into broad contexts of culture and history. The course is much concerned with the issue of artistic quality, and the role in it of imagination, technical skill, complexity, sensitivity, and conviction; and the bases of knowledge and understanding in the arts may be approached through exceptionally rich documentation, much of it from Michelangelo’s own files.

*Note:* Expected to be omitted in 2000–01.

**[Literature and Arts B-44. The Architecture of Capital and Court in Western Europe, 1600–1800]**

Catalog Number: 3767

*Alice G. Jarrard*

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

Examines architectural works in dialogue with the social, cultural, political, and technological forces that shape them. Rather than simply surveying the works of architects including Bernini,



Borromini, Guarini, Juvarra, Piranesi, Le Vau, Mansart, Ledoux, Hawksmoor, and Wren, we will approach their buildings and projects by studying selective historical moments in Italy, France, England, and Spain. Themes considered: the creation of the capital city; dialectics between urban and pastoral modes; innovation and the interpretation of the past; printmaking and architectural publication; and the audiences and ritual uses of architecture.

*Note:* Expected to be given in 2000–01.

### **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-54. Chamber Music from Mozart to Ravel]**

Catalog Number: 1487

*Robert D. Levin*

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

Examines selected masterworks of chamber music from the 1770s, when the distinctive timbres of Baroque instruments shaped composers' imaginations, to the beginning of the 20th century. Follows parallel developments in the technology of instrument making and growing performer virtuosity. Style and rhetoric are central concerns, and attention is given to the evolution in interpretative style through listening to historic, as well as recent, recordings. Selections from the assigned works are demonstrated in live performances.

*Note:* Expected to be given in 2000–01.

### **Literature and Arts B-55. Opera: Perspectives on Music and Drama**

Catalog Number: 4956

*Lewis Lockwood*

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

An introduction to opera as an art form, exploring some of the ways in which it conveys dramatic action through musical form and expression. Examples drawn chiefly but not exclusively from works by Mozart, Verdi, and Wagner.

### **Literature and Arts B-65. Music in *Fin-de-siècle* Vienna: The Origins of Modernism**

Catalog Number: 7260

*Reinhold Brinkmann*

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

As a means to understand (through guided listening and its reflection) basic principles and major artistic ideas of 20th-century music in general, this course will offer a demonstration and



discussion of a “new music” that originated in Vienna after 1900: music-historical place, aesthetics, genres, composers, and single works of the so-called Second Viennese School. Representative compositions by Mahler, Zemlinsky, Schoenberg, Webern, and Berg, but also by Johann Strauss, Jr., will be studied in some detail. Special attention: historical background, sociocultural conditions, and interdisciplinary context (visual arts, literature, criticism, philosophy, science).

*Note:* Expected to be omitted in 2000–01.

### **Literature and Arts B-78. Soundscapes: World Music at Home and Abroad**

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 world 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. Through case studies focusing primarily on musics from selected American ethnic traditions, “Soundscapes” explores 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 omitted in 2000–01.

## ***Literature and Arts C***

### **Literature and Arts C-14. The Concept of the Hero in Greek Civilization**

Catalog Number: 3915

*Gregory Nagy*

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

Alternative perspectives on the individual and society. An intensive study of the ancient Greek hero in literature, art, and religion. Selected readings, in translation, of Homer, Hesiod, Herodotus, the poets of lyric and tragedy, and Plato.

*Note:* Exam date to be announced.



### Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage

Catalog Number: 7384

*Diana L. Eck*

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

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 omitted in 2000–01. 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 2000–01.

### Literature and Arts C-22. European Culture in the Latin 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, musical—produced and disseminated in the Middle Ages as the classical educational system fused with the scriptures and liturgy of Christianity. Examines major texts in which this culture took shape and expressed itself (Augustine's *Confessions*, Benedict's *Rule*, *The Song of Roland*, Chrétien de Troyes, *Tristan*, and Dante's *Inferno*). Relates texts to the manuscript codex, the main medium in which this fusion was conveyed throughout Europe. Considerable attention to visual materials, especially manuscript illumination. All lectures illustrated with slides.

### **[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*

A study 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. If there is interest in sufficient number, students will do research on and stage a medieval play.

*Note:* Expected to be given in 2000–01.

**[Literature and Arts C-28. Icon—Ritual—Text: Reading the Culture of Medieval Rus’]**

Catalog Number: 2798

*Michael S. Flier*

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

An introduction to the culture of the medieval East Slavs, precursors of the Russians, Ukrainians, and Belarusians. Exemplars of icon and fresco painting, architecture, ritual, music, folklore, and literature are analyzed in historical and social context for clues to the evolution of an apocalyptic worldview, extending from the Christianization of Rus’ in the 10th century to the advent of Peter the Great at the end of the 17th century.

*Note:* Expected to be given in 2000–01. All readings in English.

**[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 (fall 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 2000–01. No knowledge of Russian required.

**[Literature and Arts C-37. The Bible and Its Interpreters]**

Catalog Number: 1255

*James L. Kugel*

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

Seeks to acquaint students with the principal parts of the Hebrew Bible and to provide some exposure to the different ways in which the Bible has been read and interpreted in various periods, from late antiquity to modern times. To achieve this the course concentrates on a group of central biblical figures whose stories are examined in the context of ancient Israelite history and society, and then compared with later, often fanciful, elaborations of these same biblical tales by Jewish and Christian interpreters.

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 5226

*Peter K. Bol*

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



Examines from literary, philosophical, and historical perspectives the creation in later imperial China of an enduring national culture, which flourished despite 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 autonomy, 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 given in 2000–01. For students under the Core requirement, counts as either Literature and Arts C or Foreign Cultures, but not both.

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

Catalog Number: 3743

*Harold Bolitho*

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

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

Catalog Number: 5794

*Eckehard Simon*

*Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12*  
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: feudal 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 2000–01.

### **[Literature and Arts C-47. Language, Literature, and Power in the Early Modern Hispanic World (1492–1700)]**

Catalog Number: 2205

*Mary Gaylord*

*Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13*  
A study of the complex relations between imaginative literature, historiography, and imperial politics in the age of Spanish expansion. Examines writing as program and tool for conquest and as script for the encounter with an American "Other." Considers the new context as challenge to heroic fictions of identity and as source of new voices. Explores issues of representation raised by the task of writing about an unknown world, as well as "wars of words" over the legitimacy of European domination. Authors include Columbus, Cortés, Las Casas, Bernal Díaz, Cabeza de



Vaca, Inca Garcilaso, Cervantes, Sor Juana Inés de la Cruz.

*Note:* Expected to be given in 2000–01. Readings in translation.

**[Literature and Arts C-49. Cultural China in Contemporary Perspectives]**

Catalog Number: 0122

*Leo Ou-Fan Lee*

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

An exploration of new forms of cultural creativity in the rapidly changing contexts of Chinese-speaking territories of mainland China, Taiwan, Hong Kong, and the Chinese-American communities during the second half of the 20th century. Primary sources are drawn largely from the novels, poetry, and films produced recently. The course is not a narrative history of 20th-century China, but a critical investigation of some crucial issues facing the Chinese as represented by intellectuals, writers, and artists. An interdisciplinary approach by design, the course includes elements of intellectual history, social change, and the popular media.

*Note:* Expected to be given in 2000–01. Readings in translation. For students under the Core requirement, counts as either Literature and Arts C or Foreign Cultures, but not both.

**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, CuboFuturism, 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 2000–01. 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 this 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 2001–02.



### 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 B.C.E.–14 C.E.). 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:* Expected to be omitted in 2000–01.

### **[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). M., W., (F.), at 12, and a weekly section to be arranged. EXAM GROUP: 5*

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, Ibsen, Schnitzler, Hofmannsthal, Mann, Musil, Kafka. Artists include Klimt, Schiele, Kokoschka, Kirchner, Marc, Kandinsky.

*Note:* Expected to be given in 2001–02. No knowledge of German required.

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

Catalog Number: 9369

*Judith Ryan*

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

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 2000–01.

### ***Cross-listed Core courses that satisfy 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]**

## *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 student's 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. Equality and Difference]**

Catalog Number: 6085

*Harvey C. Mansfield*

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

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 2000–01.

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

Catalog Number: 3753

*Michael J. Sandel*

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

A critical analysis of selected classical and contemporary theories of justice, with discussion of present-day practical applications. Topics include affirmative action, income distribution, surrogate motherhood, 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 and J. Bryan Hehir (Divinity School)*

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

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 given in 2001–02.



### Moral Reasoning 33. Issues in Ethics

Catalog Number: 2255

*Thomas M. Scanlon, Jr.*

*Half course (fall term). Tu., Th., at 9, and a weekly section to be arranged. EXAM GROUP: 11*  
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 2000–01.

### **[Moral Reasoning 40. Confucian Humanism: Self-Cultivation and Moral Community]**

Catalog Number: 0466

*Wei-Ming Tu*

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

Explores a style of moral reasoning informed by Confucian humanism which takes self-cultivation as the basis for the development of a moral community. Focuses on the perception of the self as a center of relationships and the conviction that society ought to be a community of trust. Although our main concern is to understand Confucian ethics as a form of “virtue-centered” morality, attention is also given to a critical analysis of the limits of Confucian ethics in light of contemporary discussions of such issues as human rights and political authority.

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 1262

*Seyla Benhabib and Glyn Morgan*

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

The line between what is considered “private” and what belongs to the “public” varies culturally, historically, and socially. The aim is to introduce students to central issues in Western moral, legal, and political thought by examining the ways in which this distinction has been drawn and justified in the work of major thinkers. The course also deals with feminist criticisms of the public/private split, as well as examining recent developments concerning privacy rights in American legal theory. Readings from Aristotle, *Antigone*, *Lysistrata*, Locke, Rousseau, Virginia Woolf, Michel Foucault, Carole Pateman, and Susan Okin.

*Note:* Expected to be given in 2001–02.

### **[Moral Reasoning 52. Property Rights: Morals and Law]**

Catalog Number: 0894

*Frank I. Michelman (Law School)*

*Half course (spring term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3*  
Morally speaking, what is “having a right” to something? What views of the human condition inspire moral notions of property rights? What becomes of them in legal reasoning? (Legal thought reflects special concerns about the rule of law and the uses of state power, which may help shape legal understandings of property rights.) Examines legal controversies—concerning landlord-tenant disputes, environmental regulation, disputes between spouses and domestic



partners, Indian land claims, and rights of the homeless to shelter—in light of readings from Aristotle, Locke, Hume, Kant, Bentham, Hegel, Marx, American progressives, and contemporary commentators.

*Note:* Expected to be given in 2000–01.

### **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*

For centuries various Jewish and Christian thinkers have asserted that moral judgement is impossible without some concept of the deity. So convincing were they that one important Russian author of the 19th century was led to exclaim, “if there is no God, all is permitted.” In more recent times some thinkers have challenged this assumption, and insisted that removing (or reducing) the role of God is indispensable to proper moral discourse. 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 confront the basic question, why might one 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 2000–01.

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

Catalog Number: 6507

*Richard Moran*

*Half course (fall 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 2000–01.

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

Catalog Number: 8892

*Richard Tuck*

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

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 60. Reason and Morality**

Catalog Number: 9557

*Melissa Barry*

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

Can our moral views be defended by rational argument? Or must we resort to mere assertion and counterassertion when trying to defend moral positions? Are there moral facts? If we can reason about morality, what might such reasoning look like? We shall consider both (1) a powerful challenge to the very idea of reasoning about morality, and (2) influential accounts of the nature of moral reasoning, focusing on crucial differences among these accounts. Readings include works by Hobbes, Kant, Mill, Nietzsche, and some contemporary authors.

*Note:* Expected to be omitted in 2000–01.

### **Moral Reasoning 62. Reasoning In and About the Law**

Catalog Number: 0286

*Michael Blake*

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

How is law related to morality? How is it distinct? Do we have an obligation to obey the law? What, if anything, justifies the imposition of legal punishment? These issues, and related issues dealing with the analysis and justification of legal practices, will be examined using the writings of philosophers, judges, and legal theorists.

### **Moral Reasoning 64. The Ethics of Everyday Life: Work and Family**

Catalog Number: 7803

*J. Russell Muirhead*

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

What moral considerations orient and constrain us in two central arenas of everyday life, work and family? How do these in turn relate to politics? Topics include the work ethic, rival conceptions of the family, marriage and its public recognition, the public-private distinction, the division of labor and gender, independence, and obligation. Readings drawn from classic and contemporary thinkers in moral and political thought, including Aristotle, Augustine, Milton, Locke, Marx, and Weber.

*Note:* Expected to be omitted in 2000–01.

### ***Departmental courses that satisfy the Moral Reasoning requirement***

A listing of departmental courses that can be taken to meet the Moral Reasoning requirement is included in the Core Curriculum section of the *Handbook for Students* (Web site: <http://www.registrar.fas.harvard.edu/handbooks/student>). 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.



## 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. Algorithms and Data Structures

Catalog Number: 5430 Enrollment: Limited to 60

*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 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 2000–01.

#### Quantitative Reasoning 24. Health Economics

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 integral to a number of disciplines, including economics, philosophy, sociology, demography, and statistics, as well as four professional schools (medicine, public health, law, and public policy). This course uses quantitative methods to examine the organization and operation of the medical system. The course will cover the medical and non-medical determinants of health; markets for medical care services and health insurance; and proposed reforms of medical care. Methods of analysis will include graphical analysis, algebra, survey design, and use of secondary data. Techniques will be developed in class and section. Use of a computer spreadsheet is required and will be demonstrated in class and section.

### **Quantitative Reasoning 26. Choice and Chance: The Mathematics of Decision Making**

Catalog Number: 4123

*Daniel L. Goroff and Howard Raiffa (Business School)*

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

This course develops mathematical ideas that can help individuals make rational choices. We study both decisions whose results are predictable as well as those made under uncertainty, including cases designed for professional school classes. Topics range from methods of optimization to probability theory, and from systems that evolve over time to empirical surprises concerning how people estimate, bet and choose in practice.

*Note:* High school algebra and willingness to think hard are prerequisites.

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

Catalog Number: 4764

*Benedict H. Gross and Joseph D. Harris*

*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 will discuss various special classes of numbers, like Fibonacci numbers, Catalan numbers, factorials and binomials and the many ways they arise in mathematics and in nature. We'll also investigate the mysterious behavior of prime numbers and their distribution, and alternative counting systems such as modular arithmetic.

*Note:* We will assume no mathematical background beyond high-school algebra. Emphasis will be placed on discovery through conjecture and experimentation.

### **[Quantitative Reasoning 30. Quantitative Methods in Political Science]**

Catalog Number: 5687

*Gary King*

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

This course is about *inference* in political science: *using facts we know to learn about facts we do not know*. Its focus is inference from quantitative data (although the same insights apply to good nonquantitative research). Students learn the major quantitative techniques used in political science and related social sciences. The course explores data analysis, as well as descriptive and causal statistical inference of many types. The course emphasizes probability theory, regression analysis and other statistical techniques, and uses techniques of stochastic simulation to get answers easily and to interpret statistical results in a manner very close to the political substance of the problem at hand.

*Note:* Expected to be given in 2000–01.



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

Catalog Number: 2228

*Carl N. Morris*

*Half course (fall term). Tu., Th., 8:30–10, and a weekly section to be arranged. EXAM GROUP: 10, 11*

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 it shows how statistical data and planned studies can be crucial when evaluating probabilities and associated risks. It will help students understand and discover how people think about uncertainty and risk. The course will improve each student's ability to handle uncertainty, and so to make better decisions. It introduces concepts and the language of probability and statistics. Students will review and assess probabilities and statistics developed for and reported in the media, science, industry, law, medicine, and government.

*Note:* Expected to be omitted in 2000–01.

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

Catalog Number: 4329

*Peter T. Ellison*

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

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 drawn from census and vital registration data. Students gain experience in the analysis of real demographic data and the application of demographic analyses to a variety of problems drawn from both the social and natural sciences.

*Note:* Expected to be given in 2000–01.

### ***Department courses that satisfy the Quantitative Reasoning requirement***

A listing of departmental courses that can be taken to meet the Quantitative Reasoning requirement is included in the Core Curriculum section of the *Handbook for Students* (Web site: <http://www.registrar.fas.harvard.edu/handbooks/student>). 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.

## *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-15. Dynamics and Energy**

Catalog Number: 5241

*Henry Ehrenreich*

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

Develops Newton's dynamics and the energy concept as it was generalized through the period of the scientific and industrial revolutions. These generalizations lead to atomic and kinetic descriptions of heat and entropy, and the laws of thermodynamics. Contemporary energy issues (in particular, conventional and alternative sources) are described and examined from the standpoint of historical and current usage, efficiency, and environmental impact.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Secondary school physics recommended but not required.

#### **[Science A-16. Relativity and Quantum Physics]**

Catalog Number: 5367

*Henry Ehrenreich*

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

Develops two important contributions to early 20th-century physics to illustrate modes of thinking about and approaches to quantitative physical descriptions in regimes for which commonsense perceptions are not helpful. These pertain to space and time in relativity and objects of atomic dimensions in quantum physics. Background information concerning waves and electricity is developed as needed.

*Note:* Expected to be given in 2000–01.

#### **Science A-17. The Astronomical Perspective**

Catalog Number: 5421



*Owen Gingerich and David W. Latham*

*Half course (fall term). M., W., F., at 12, and a weekly section to be arranged. EXAM GROUP: 5*  
Scientific discovery and our understanding of the cosmos. Gravity as the ruling force in the universe, from planetary theories of the ancient Greeks to pulsars, black holes, quasars, and modern cosmology. Did the Big Bang really happen? Will the universe ultimately collapse? These topics frame a historically oriented inquiry into scientific creativity from the philosophical perspective of the astronomer.

*Note:* Expected to be omitted in 2000–01.

### **Science A-20. From Alchemy to Elementary Particle Physics**

Catalog Number: 6071

*Sheldon L. Glashow*

*Half course (fall term). M., W., F., at 12, and a weekly section to be arranged. EXAM GROUP: 5*  
Chronicles the search for the most basic constituents of all matter, and for the rules by which they combine. Begins with the 19th-century vindication of early Greek notions of element and atom, and proceeds through a study of the basic laws of physics and how they have evolved. Recent exciting developments in elementary particle physics are seen as natural continuations of past endeavors; how our present understanding of atomic and subatomic structure results from a complex interplay between experimental and theoretical research. The study of several key developments in historical perspective (e.g., the explanation of combustion, the observation of radioactivity, the theory of relativity) leads to an appreciation of the current research frontier.

*Prerequisite:* Secondary school physics and chemistry, as well as some competence in elementary algebra and geometry.

### **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 omitted in 2000–01.

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

Catalog Number: 1706

*Roy J. Glauber*

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

Explores the ultimate nature of light and its interaction with matter. An excursion through the physical world that strives to develop an understanding of the modern concept of wave-particle duality. The background of that theory includes a succession of analogies, such as that of light



with sound, and of the ways in which atomic particles and light behave. The course thus emphasizes, for example, the common features of musical instruments, broadcast transmitters, and radiating atoms. Lecture demonstrations, which are central in importance, are drawn from many areas of optics, acoustics, electromagnetism, and atomic physics. The behavior of waves of various sorts is used to elucidate the limitations on knowledge imposed by the uncertainty principle.

*Note:* May not be taken for credit by students who have completed Science A-26.

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

Catalog Number: 0477 Enrollment: Limited to 60

*Steven C. Wofsy*

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

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 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 and Robert W. Noyes*

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

The nature of the Sun and the stars, with emphasis on direct observations, 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 extensive telescopic observations of the Sun and stars using modern instrumentation to explore the energy output of the stars, their relative distances, their 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 local stellar neighborhood, in our Milky Way Galaxy, and in the Universe.



### **Science A-37. The Changing Surface of the Earth**

Catalog Number: 5925

*Paul F. Hoffman*

*Half course (fall term). M., W., F., at 1, a 90-minute weekly section or laboratory to be arranged, and two full-day field trips. EXAM GROUP: 6*

Examines three grand quests in the history of Earth science: the age of the Earth, the origin of large features on the Earth's surface, and the evolution of life, including humans. The concept of geological time grew out of opposition to biblical literalism in the 18th century, survived an attack from thermodynamics in the 19th century, and was resolved following the discovery of radioactivity and the development of advanced mass spectrometry in the 20th century. The changing surface of the Earth could not be understood until late 20th-century methods revealed the dynamic nature of the Earth's interior. The evolution of life has been an intellectual battleground between evidence from fossils and living organisms. Throughout, the course will show how science feeds on the interplay between theory and observation.

### **[Science A-39. Time]**

Catalog Number: 0077

*Gary J. Feldman*

*Half course (fall term). Tu., Th., 1–2:30, 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 recently verified effects so weird that Einstein wrote of them, "No reasonable definition of reality could be expected to permit this."

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 3581

*Peter L. Galison*

*Half course (fall 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.

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

Catalog Number: 6001

*Göran Ekström*

*Half course (fall term). M., W., F., at 10, and a 90-minute weekly section to be arranged. EXAM GROUP: 3*



An introduction to risks and hazard in the environment. Different types of hazards are analyzed and compared: natural disasters, such as tornados, earthquakes and meteorite impacts; acute and chronic health effects caused by exposure to radiation and toxic substances such as radon, asbestos and dioxin; long-term societal 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 (to health and wealth) posed by various 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., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 6, 7*

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.

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

A listing of departmental courses that can be taken to meet the Science A requirement is included in the Core Curriculum section of the *Handbook for Students* (Web site:

<http://www.registrar.fas.harvard.edu/handbooks/student>). These courses are not necessarily designed for a general audience; they may assume prior experience or assume more than could be expected of students seeing the subject for the first time.

### ***Science B***

#### **Science B-16. History of Life**

Catalog Number: 6718 Enrollment: Limited to 200

*Stephen J. Gould*

*Half course (spring term). Tu., Th., 11:30–1, and a 90-minute weekly section to be arranged.*

*EXAM GROUP: 13, 14*

Major aspects of the geological and paleontological history of Earth. Part 1 (historical science) uses the development of theories about Earth history to examine styles of doing science when faced with complex histories or unrepeated events. Part 2 (evolutionary theory) covers basic principles of Darwinism and alternatives, and examines philosophical implications of an evolutionary world view. Part 3 (biological history) examines Darwinian theory as a model for explaining the history of life. Topics: origin of life, rapid extinctions and periods of origination, vertebrate origins, human evolution.



*Note:* Sections cover basic skills (e.g., identification of fossils), but serve primarily for small-group discussion.

### **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, and reproductive biology. Topics include not only the normal functioning of these systems but also their responses to infection, injury, and the environment. 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

*David Pilbeam*

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

A survey of human evolution as a particular example of general issues in evolutionary biology. Some principles of evolutionary theory, primate behavioral ecology, and functional morphology are used to interpret the fossil record of hominoids (apes and humans) and particularly the hominoids (humans and their direct ancestors and collaterals), from hominoid origins to the appearance of modern humans through to the origins of agriculture. Emphasis is on the dynamic (behavioral and ecological) interpretation of the human fossil and archeological record.

### **Science B-29. Human Behavioral Biology**

Catalog Number: 0152 Enrollment: Limited to 400

*Irven DeVore, Marc D. Hauser, and Richard W. Wrangham*

*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-34. The Earth's Environment and Resources**

Catalog Number: 5898

*Heinrich D. Holland*

*Half course (fall term). M., W., F., at 10, and a weekly section to be arranged; also two half-day field trips plus one full-day field trip across Massachusetts. EXAM GROUP: 3*

Explores three major themes: (1) the Earth is a very complex system whose operation involves the interplay of physics, chemistry, and biology; (2) natural resources, both renewable and nonrenewable, are formed during the operation of this system; the distribution and abundance of these resources sets important limits on the future of mankind; (3) the use of natural resources modifies the environment on local, regional, and global scales; some of these modifications have major implications for humanity during the next century. Environmental problems and environmental restoration are emphasized.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Secondary school physics and chemistry highly recommended but not required.

### **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.

### **Science B-44. Vision and Brain**

Catalog Number: 4722

*Ken Nakayama*

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

Recounts how vision has been studied since antiquity; then surveys scientific studies by contemporary researchers. Focuses on how the facts of visual experience and performance can be understood in terms of the images sampled from the environment, the properties of the eye and brain, and more functional descriptions of perceptual and cognitive systems.

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

Catalog Number: 3395

*George M. Whitesides and Walter Gilbert*

*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.

### **Science B-48. From DNA to Brain**

Catalog Number: 3320

*Howard C. Berg and John E. Dowling*

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

Explores the way in which information is stored and processed by biological systems, first by molecules—DNA, RNA, protein, and phospholipid—then by cells and cell assemblies, particularly the nervous system. Learning how DNA gives rise to brain and how the brain works are among the greatest challenges in modern biology. Our hope is to give students a taste of this remarkable enterprise.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Secondary school chemistry.

### **[Science B-53. Biology of Marine Organisms]**

Catalog Number: 7050 Enrollment: Limited to 65

*Robert M. Woollacott*

*Half course (spring term). Tu., Th., 1–2:30, and a two-hour weekly section to be arranged. Two half-day and one full-day field trips will substitute for three 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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Secondary school biology.

### **Science B-55. Evolutionary Biology**

Catalog Number: 1199

*Stephen R. Palumbi*

*Half course (fall term). M., W., F., at 12, and a 90-minute weekly section to be arranged. EXAM GROUP: 5*

Explores the process of biological evolution, the way the biosphere has changed over time, and how human actions affect the evolutionary process, thereby changing our contemporary biological environment. Examines the mechanics and pace of evolution, from the molecular to the species level, with an emphasis on the ecological context of natural selection. The evolution of antibiotic resistance, HIV, and bioengineered organisms are used to illustrate how evolution plays a critical role in modern society.

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

A listing of departmental courses that can be taken to meet the Science B requirement is included in the Core Curriculum section of the *Handbook for Students* (Web site:

<http://www.registrar.fas.harvard.edu/handbooks/student>). These courses are not necessarily



designed for a general audience; they may assume prior experience or assume more than could be expected of students seeing the subject for the first time.

## *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

*Martin Feldstein, Judith Li 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: Fall: 5*

Introduction to economic issues and basic economic principles and methods. Fall term focuses on microeconomics, including historic beginnings of economic thought, supply and demand, labor and financial markets, taxation, and social economic issues of health care, poverty, the environment, and income distribution. Spring term focuses on macroeconomics and the impact of both monetary and fiscal policy on inflation, unemployment, interest rates, investment, the exchange rate, and international trade. Studies role of government in the economy, including Social Security, the tax system, and economic change in Eastern Europe, Latin America, and Asia. Covers international trade and financial markets.

*Note:* Must be taken as a full course, although in special situations students are permitted to take the second term in a later year. Taught in a mixture of lectures and 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. Exam dates to be announced.

##### **[Social Analysis 16. War]**

Catalog Number: 4028

*Stanley Hoffmann*

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

War as the central phenomenon of international politics, as a domestic social institution, and as an issue made crucial by thermonuclear weapons. War in history: causes of war in theory and reality, functions and types of war, effects on society and the individual. War in the nuclear age: political features and strategic problems of the present international system; restraints: efforts to control force through law, international organization, disarmament, and arms control.

*Note:* Expected to be given in 2000–01.



**[Social Analysis 28. Culture, Illness, and Healing: A Cross-Cultural Comparison of Medicine in Society]**

Catalog Number: 4247

*Arthur Kleinman and Byron J. Good (Medical School)*

*Half course (fall 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 Western and non-Western medical systems to understand what is shared and what is culturally distinctive in the experience and treatment of sickness. Analyzes how practitioners (biomedical and folk) 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 international 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 2001–02.

**Social Analysis 34. Knowledge of Language**

Catalog Number: 2069

*Jay H. Jasanoff and Bert Vaux*

*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 languages, language universals, child language acquisition, and language change.

**[Social Analysis 36. Religion and Modernization: Cultural Revolutions and Secularism]**

Catalog Number: 2027

*Nur Yalman*

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

Theoretical studies on major social and ideological changes concerning religion in modern society with special reference to France, Russia, repercussions in Asia (Hinduism, Buddhism) and the Middle East (Islam). Changes in intellectual attitudes in France and the French Revolution. The Enlightenment, the Russian and Turkish Revolutions, and religious revivalism in Iran are considered. Comparative studies from India and Sri Lanka. Marxist and structuralist theories concerning religion are examined in historical contexts. Students can specialize in regions and topics.

*Note:* Expected to be given in 2000–01.

**Social Analysis 38. Social Stratification**

Catalog Number: 2505

*Aage B. Sørensen*

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

*3*

Introduction to knowledge and ideas about the nature, causes, and consequences of social stratification in modern society. Examines the basic dimensions of social and economic



inequality in society, and presents the most important theoretical perspectives on the causes of social stratification. Considers the openness of modern society in terms of the degree of inequality of opportunity by family background, race, and gender.

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

Catalog Number: 3544

*Kenneth A. Shepsle*

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

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 omitted in 2000–01.

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

Catalog Number: 4409

*C. C. Lamberg-Karlovsky*

*Half course (fall 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. Growth and Development in Historical Perspective**

Catalog Number: 1879

*Robert H. Bates*

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

Societies now industrial and rich were once agricultural and poor. 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, and war-making, as well as economic 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 U.S. 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 United States.

*Note:* Expected to be omitted in 2000–01.

### Social Analysis 58. Representation, Equality, and Democracy

Catalog Number: 1341

*Sidney Verba*

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

Democracy is a system of rule in which the citizenry is the ultimate sovereign. Government policies ought to be responsive to the preferences of that citizenry, with each citizen weighed equally. If this is to happen, there must be procedures whereby the preferences of citizens are expressed, aggregated, and communicated to governing decision-makers, and there must be some set of incentives that lead the decision-makers to be responsive to these preferences. This course examines the ways in which the complex and “unreadable” preferences in the public are communicated to governing officials. The course will connect theories of representation and democracy to systematic studies of citizen behavior.

#### *Cross-listed Core courses that satisfy the Social Analysis requirement*

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

**[Foreign Cultures 62. Chinese Family, Marriage, and Kinship: A Century of Change]**

## General Education Electives

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

*Faculty of the Committee on Non-Departmental Instruction*



William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education (*Chair*)  
 Peter K. Bol, Harvard College Professor and Professor of Chinese History (*on leave spring term*)  
 Daniel S. Fisher, Professor of Physics and Professor of Applied Physics  
 William E. Gienapp, Professor of History  
 Karl S. Guthke, Kuno Francke Professor of German Art and Culture (*on leave fall term*)  
 Christopher P. Jones, George Martin Lane Professor of the Classics and of History  
 Karel F. Liem, Henry Bryant Bigelow Professor of Ichthyology  
 Andrew Moravcsik, Professor of Government (*on leave fall term*)  
 Anthony G. Oettinger, Gordon McKay Professor of Applied Mathematics and Professor of Information Resources Policy

### ***General Education Courses***

#### **General Education 105. The Literature of Social Reflection**

Catalog Number: 0769

*Robert Coles (Medical School)*

*Half course (fall term). Tu., Th., at 10, with one ninety-minute section weekly. EXAM GROUP: 12*

An examination of selected novels, essays, poems, and autobiographical statements which aim at social scrutiny or at a moral critique of a particular society. Lectures emphasize the distinctive approach of the literary mind to a variety of social problems: poverty, racial injustice, historical change, the various tensions of rural and urban life. Authors studied include George Eliot, Charles Dickens, Thomas Hardy, Georges Bernanos, William Carlos Williams, James Agee, George Orwell, Ralph Ellison, Zora Neale Hurston, Tillie Olson, Flannery O'Connor, and Walker Percy.

#### **General Education 156. The Information Age, Its Main Currents and Their Intermingling: Conference Course**

Catalog Number: 3172 Enrollment: Limited to 25.

*Anthony G. Oettinger*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Dynamics of the worldwide shift toward information-intensive economies. The hype and the ripe in information infrastructures, networks, and multimedia. Transformations of information businesses: telecommunications; computers; broadcast, cable, satellite, and cassette TV; consumer electronics; books; newspapers; mail; toys. Antecedents in shifts from memorized to written records in 12th-century England and to steam printing presses in the 19th century. Each term paper traces the linkages between changing information suppliers and a student-picked sphere of information use — e.g., literacy and numeracy, personal communication, entertainment, political processes, international trade, capital and labor markets, military intelligence and command practices, or organizational structure and behavior.

*Note:* Term paper in lieu of final examination; extensive research expected of graduate students; counts as an elective for Applied Mathematics concentrators if the term paper includes appropriate mathematical content. Offered jointly with the Kennedy School of Government as BGP-586.

*Prerequisite:* Social Analysis 10 or elementary calculus or equivalent.



### **General Education 175 (formerly Anthropology 199a). Native Americans in the 21st Century: Nation-Building I**

Catalog Number: 5587

*Joseph P. Kalt (Kennedy School), Manley A. Begay, and guest lecturers*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Uses a hands-on, interdisciplinary approach to examine some of the major issues Native American tribes and nations face as the 21st century approaches, including: sovereignty, economic development, constitutional reform, cultural and language preservation, land and water rights, religious freedom, health and social welfare, and education. Concepts of “Nation-building” and leadership, taken from tribal points of view, will be the central themes of the course. All aspects of the course will be placed in a cross-cultural context. Guest presentations will be made by Native American students, visiting scholars, and Native American leaders.

*Note:* Offered jointly with the Kennedy School of Government 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., 8:30–10, and a weekly section to be arranged. EXAM GROUP: 10, 11*

Provides students with an overview of U. S. health care delivery system, its components, and policy challenges. Health care system considered from organizational perspective: analyzes roles of patients, providers (doctors and hospitals), health plans, and payers. Considers objectives, constraints, incentives, knowledge, and conduct of each component. Evaluates problems faced by each component using both “insider” and “outsider” perspectives. What are objectives and how can they be realized? What consensus exists, if any? Reading will include selections from medical sociology, economics, politics, anthropology, and ethics.

## ***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.

## ***Adams***

### **\*Adams 122. Printed Books as a Field of Study**

Catalog Number: 6137 Enrollment: Limited to 6

*Roger E. Stoddard*

*Half course (spring term). Tu., 2–4.*

Introduces students to the appreciation of books as technical, commercial, and artistic products as well as intellectual ones. With due regard for text and picture, concentrates attention on the



printed book in Europe and the Americas from the technical inventions of Gutenberg and other pioneers to the postmodern renovations of today. Books from Houghton Library collections are viewed and discussed in relation to their manufacture, distribution, and use. Much of the work is comparative. Vocations of book culture to be studied and illustrated are printer, book artisan, publisher, bookseller, collector, librarian, antiquarian bookseller, and bibliographer.

*Note:* Expected to be omitted in 2000–01.

### *Dunster*

#### **[\*Dunster 119. Discovering Musical Language: Bringing Music to Life from the Perspectives of Composer/Improviser, Listener, Performer]**

Catalog Number: 7233 Enrollment: Limited to 20.

*Luise Vosgerchian*

*Half course (spring term). Hours to be arranged, with one 90-minute section weekly.*

An applied course in music analysis for musicians and music lovers, covering a broad scope of repertoire from various genres, styles, and cultures. Participants engage on a practical basis with melody, harmony, text, breathing... from the perspective of rhythm as underlying generative force. Particular emphasis on the relationship of notation to musical reality (psychological, visceral, energetic) — embodied in performance. Although a large repertoire of world music is presented in weekly listening assignments, specific projects will be tailored to class members.

*Note:* Expected to be given in 2000–01. Participants who are performers will be expected to play/sing/conduct repertoire for class presentations, performances complementing written work; music lovers will be given special assignments in rhythm, phraseology,...(both written and actual). Additional section times may be scheduled.

### *Eliot*

#### **[\*Eliot 122. Abraham Lincoln]**

Catalog Number: 1179 Enrollment: Limited to 15

*Alan Heimert*

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

An effort to discern and assess the mind and character of Abraham Lincoln through reading and discussion of his writings. Focus on public utterances, from the Lyceum Address to the Second Inaugural, although letters and other brief materials are also included. The entire Lincoln-Douglas debate is studied as a contrast in arguments and rhetorical technique. The insights of previous Lincoln students are reviewed and critiqued.

*Note:* Expected to be given in 2000–01.

#### **\*Eliot 129. Nutrition and Public Health**

Catalog Number: 1497 Enrollment: Limited to 20

*Clifford Lo (Medical School)*

*Half course (spring term). M., 5:30–7:30 p.m.*

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:* Clinical rounds with the Nutrition Support Services at Children's Hospital will be optional.

**[\*Eliot 132 (formerly Mather 117). Narratives of Motherhood]**

Catalog Number: 3099 Enrollment: Limited to 20

*Margaret Bruzelius*

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

Maternity is a profoundly imaginary structure, described in wildly divergent metaphors as the conduit for atavism and as a civilizing force. We study discourses that claim to subdue the maternal body to paternal demands, contract laws, medical evidence, the writings of mothers themselves in order to analyze the metaphoric chains that underlie each view of maternity. How do the languages of maternity mediate between the mother as a work of nature and as the first instrument of culture? How is motherhood made and used?

*Note:* Expected to be given in 2000–01.

**\*Eliot 133. The *Táin*: The Medieval Irish Saga**

Catalog Number: 2966 Enrollment: Limited to 12

*Patrick K. Ford*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Investigates the great medieval Irish saga, *Táin Bó Cúailnge*. The *Táin* is the centerpiece of the so-called Ulster Cycle of tales, a group centered on the court of King Conchobor at Emain Macha in 1st-century (CE) Ulster. Cycle focuses on heroic exploits of Cú Chulainn, the Hound of Cooley, and on ethos of a warrior aristocracy in heroic golden age. Of especial interest are roles played by women in the tales. Tensions between literacy and orality in the transmission of the tales and issues related to the translation of the tales into English in the modern period will be studied.

***Leverett***

**\*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). Tu., 7–9 p.m.*

Focuses on the “scientific” Weltanschauung (world view) of Sigmund Freud as a key to understanding his life and work. Students examine the world view Freud attacks by reading selected writings of C. S. Lewis and the letters between Freud and Oskar Pfister, the Swiss psychoanalyst and theologian. Considers the following themes: source of morality and ethics, definition and understanding of human sexuality, problem of pain and suffering, definition of happiness and reason that unhappiness prevails, role of different categories of love in human relationships, nature of human nature and the problem of “the painful riddle of death.” Selected expository works by Freud serve as a brief introduction to basic psychoanalytic concepts and to philosophical works that form the core of study.

***Pforzheimer***



**\*Pforzheimer 123. The Quality of Health Care in America**

Catalog Number: 4587 Enrollment: Limited to 15

*Donald M. Berwick (Medical School) and Howard H. Hiatt (Medical School)*

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

Offers information and experiences regarding an array of the most important issues and challenges in health care quality. Includes 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 various forms of waste. Each session focuses in depth on one specific quality-of-care issue, exploring patterns of performance, data sources, costs, causes, and remedies. Explores international comparisons and systemic remedies: the desirable properties of health care systems that can perform at extremely high levels in many dimensions of quality.

***Winthrop***

**[\*Winthrop 122. Four Alienated Literary Visionaries of Cambridge]**

Catalog Number: 6607 Enrollment: Limited to 20

*James R. Russell*

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

Considers issues of literature, culture, and politics in the life and work of four great twentieth-century American writers who lived within walking distance of Winthrop. Each interpreted a remote culture and a set of problems to his contemporaries, in attempting to resolve his own personal and social alienation: T. S. Eliot, with the idea of the Eternal Return approached through Buddhism and Upanishadic religion; Delmore Schwartz, with dream psychology and the Jewish immigrant experience; Vladimir Nabokov, with Russia and the dislocations of totalitarianism and exile; and William S. Burroughs, with Sufism, Ismailism, and techniques of ecstasy. These currents 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.

*Note:* Expected to be given in 2000–01.

***Freshman Seminars***

***Faculty Offering Instruction in the Freshman Seminar Program***

Caroline D. Alyea, Lecturer on History and Literature

Dorota Ewa Badowska, Lecturer on Literature

Laura Benedetti, John L. Loeb Associate Professor of the Humanities

Anya Bernstein, Lecturer on Social Studies

Ann M. Blair, John L. Loeb Associate Professor of the Social Sciences

Clara (Pleun) Bouricius, Lecturer on History and Literature

Margaret Bruzelius, Lecturer on Literature

Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures

Alan Ralph Cooper, Lecturer on History and Literature

James Cuno, Professor of History of Art and Architecture and Elizabeth and John Moors Cabot

Director of the Harvard University Art Museums

Leo Damrosch, Ernest Bernbaum Professor of Literature

Samba Diop, Assistant Professor of Romance Languages and Literatures



Francesco Duina, Lecturer on Social Studies  
John Thomas Dunlop, Lamont University Professor, *Emeritus*  
Rena Fonseca, Lecturer on Sanskrit and Indian Studies  
David R. Foster, Senior Lecturer on Biology  
Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics  
William A. Graham, Jr., Professor of the History of Religion and Islamic Studies  
Steven J. Holmes, Lecturer on History and Literature  
Daniel Itzkovitz, Lecturer on History and Literature  
Dirk Killen, Lecturer on History and Literature  
Myron Lecar, Lecturer on Astronomy  
Thomas Michael Malaby, Lecturer on Social Studies  
Adam R. Nelson, Lecturer on History and Literature  
John Timothy O'Keefe, Lecturer in History and Literature  
Roberta L. Rudnick, Associate Professor of Geology  
Shelley Salamensky, Lecturer on Literature  
Nathaniel Taylor, Lecturer on History and Literature  
P. Barry Tomlinson, Edward C. Jeffrey Professor of Biology  
Nikolaas J. van der Merwe, Landon T. Clay Professor of Scientific Archaeology  
Helen Vendler, Arthur Kingsley Porter University Professor  
Celeste Wallander, Associate Professor of Government  
Steven M. Young, Lecturer on Social Studies

Only students in Freshman standing at Harvard College may apply for a Freshman Seminar. Enrollment in Freshman Seminars is limited to 12. For a complete description of the Freshman Seminar Program and 1999–00 offerings, please consult the current Freshman Seminar catalog. Catalogs and application forms may be obtained from the Freshman Seminar Office, 6 Prescott Street, Cambridge, MA 02138 (telephone: (617) 495-1523; email: seminars@fas.harvard.edu).

### *Freshman Seminars 1999–00*

#### **\*Freshman Seminar 1. Dress and Identity in Britain, France, and the United States, 1750-1930**

Catalog Number: 0001  
*Caroline D. Alyea*  
*Half course (fall term).* .

#### **\*Freshman Seminar 2. How Novels Work**

Catalog Number: 0002  
*Dorota Ewa Badowska*  
*Half course (fall term).* .

#### **\*Freshman Seminar 3. Italian Literature and Cinema: Relationships**

Catalog Number: 0003  
*Laura Benedetti*  
*Half course (fall term).* .



**\*Freshman Seminar 4. American Social Policy**

Catalog Number: 0004  
*Anya Bernstein*  
*Half course (fall term).* .

**\*Freshman Seminar 5. The “Two Cultures”: Science and Humanities in Historical Perspective**

Catalog Number: 0005  
*Ann M. Blair*  
*Half course (spring term). Th., 1–4. EXAM GROUP: 15, 16, 17*

**\*Freshman Seminar 6. 19th-Century American Cultural History and Self-Help Literature**

Catalog Number: 0006  
*Clara (Pleun) Bouricius*  
*Half course (fall term).* .

**\*Freshman Seminar 7. The Space of Adventure**

Catalog Number: 0007  
*Margaret Bruzelius*  
*Half course (fall term).* .

**\*Freshman Seminar 8. Reading Tolstoy’s *War and Peace***

Catalog Number: 0008  
*Julie A. Buckler*  
*Half course (fall term).* .

**\*Freshman Seminar 11. Late Medieval England**

Catalog Number: 0011  
*Alan Ralph Cooper*  
*Half course (fall term).* .

**\*Freshman Seminar 12. Considering the Works of Art in the Harvard Art Museums, from Antiquity to the Present**

Catalog Number: 0012  
*James Cuno*  
*Half course (fall term; repeated spring term). Fall: W., 1–3. EXAM GROUP: Fall: 6, 7*

**\*Freshman Seminar 13. William Blake**

Catalog Number: 0013  
*Leo Damrosch*  
*Half course (fall term).* .

**\*Freshman Seminar 14. Nation State and Global Economy**

Catalog Number: 0014  
*Francesco Duina*  
*Half course (fall term).* .



**\*Freshman Seminar 16. The Workplace: The Roles of Business, Labor, and Government**

Catalog Number: 0016

*John Thomas Dunlop*

*Half course (spring term). M., 2–4:30. EXAM GROUP: 7, 8, 9*

**\*Freshman Seminar 17. Africans and Blacks in France**

Catalog Number: 0017

*Samba Diop*

*Half course (fall term). .*

**\*Freshman Seminar 19. Contemporary India: Fact and Fiction**

Catalog Number: 0019

*Rena Fonseca*

*Half course (fall term). .*

**\*Freshman Seminar 20. Physicists and Scientific Problems**

Catalog Number: 0020

*Jene A. Golovchenko and Lene V. Hau*

*Half course (fall term). .*

**\*Freshman Seminar 21. Journeys: Explorations in World Literature**

Catalog Number: 0021

*William A. Graham, Jr.*

*Half course (spring term). To Be Arranged.*

**\*Freshman Seminar 28. American Environmental Biography**

Catalog Number: 0028

*Steven J. Holmes*

*Half course (fall term). .*

**\*Freshman Seminar 30. Race, Modernism, and American Culture**

Catalog Number: 0030

*Daniel Itzkovitz*

*Half course (fall term). .*

**\*Freshman Seminar 32. Literature of Irish America: 20th-Century Voices**

Catalog Number: 0032

*Dirk Killen*

*Half course (fall term). .*

**\*Freshman Seminar 34. Large-Scale Structure in the Universe**

Catalog Number: 0034

*Myron Lecar*

*Half course (fall term). .*



**\*Freshman Seminar 36. Serfdom and Slavery in Literature**

Catalog Number: 0036

*Anne Lynn Lounsbery*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

**\*Freshman Seminar 37. The Meaning of the Modern Olympic Games**

Catalog Number: 0037

*Thomas Michael Malaby*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

**\*Freshman Seminar 38. The Contemporary Latin American Political and Economic Landscape**

Catalog Number: 0038

*Sylvia Maxfield*

*Half course (spring term). .*

**\*Freshman Seminar 41. American Higher Education since the Civil War**

Catalog Number: 0041

*Adam R. Nelson*

*Half course (fall term). .*

**\*Freshman Seminar 43. American Society and Culture in the 19th Century: the Beecher Family**

Catalog Number: 0043

*John Timothy O'Keefe*

*Half course (fall term). .*

**[\*Freshman Seminar 45. Debates About International Justice]**

Catalog Number: 0045

*Jennifer Gaston Pitts*

*Half course (spring term). M., 2–5. EXAM GROUP: 7, 8, 9*

*Note: Expected to be given in 2000–01.*

**\*Freshman Seminar 50. Planetary Geology**

Catalog Number: 0050

*Roberta L. Rudnick*

*Half course (fall term). .*

**\*Freshman Seminar 59. The Medieval Cathedral**

Catalog Number: 0059

*Nathaniel Taylor*

*Half course (fall term). .*

**\*Freshman Seminar 60. Research at the Harvard Forest**

Catalog Number: 0060



*P. Barry Tomlinson and David R. Foster*  
*Half course (fall term). Four Weekends at the Harvard Forest in Petersham.*

**\*Freshman Seminar 63. Scientific Analysis of Materials**

Catalog Number: 0063  
*Nikolaas J. van der Merwe*  
*Half course (fall term). .*

**\*Freshman Seminar 64. The Poetry of John Keats**

Catalog Number: 0064  
*Helen Vendler*  
*Half course (fall term). .*

**\*Freshman Seminar 65. Political Science Fiction**

Catalog Number: 0065  
*Celeste Wallander*  
*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

**\*Freshman Seminar 70. Civil Society and Democracy**

Catalog Number: 0070  
*Steven M. Young*  
*Half course (fall term). .*

## African Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on African Studies*

K. Anthony Appiah, Professor of Afro-American Studies and of Philosophy (*Chair*)

Leila Ahmed (*Divinity School*)

Emmanuel K. Akyeampong, Hugh K. Foster Associate Professor of African Studies

Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Culture

Robert H. Bates, Eaton Professor of the Science of Government

Suzanne P. Blier, Professor of the History of Art and Architecture

Jennifer Cole, Assistant Professor of Anthropology

Samba Diop, Assistant Professor of Romance Languages and Literatures

Deborah D. Foster, Senior Lecturer on Folklore and Mythology

Henry Louis Gates, Jr., W.E.B DuBois Professor of the Humanities

Suzanne Grant Lewis, Cross-listed: Other Faculty (*Graduate School of Education*)



Harald K. Heggenhougen, Associate Professor of Medical Anthropology (*Medical School*) and Associate Professor of Population Sciences (*Public Health*)  
 Allan G. Hill, Andelot Professor of Demography (*Public Health*)  
 Harry S. Martin III, Professor of Law and Library (*Law School*)  
 J. Lorand Matory, Professor of Anthropology and of Afro-American Studies  
 Pauline E. Peters, Lecturer on Anthropology  
 Kay Kaufman Shelemay, Professor of Music (*on leave spring term*)

The Committee on African Studies is a multidisciplinary group of scholars appointed 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 noncredit Africa Seminar is open to all students and faculty members. The Committee offers undergraduate summer grants for senior thesis study in Africa.

The courses listed below deal either directly or indirectly with the study of Africa. A more detailed description of these courses may be found in this catalog under the appropriate department or committee. Other relevant courses are listed in the catalogs of the schools of Public Health, Education, Law, Divinity, Business, and the Kennedy School of Government. Each September, the Committee publishes "African Studies at Harvard," a University-wide guide to courses, faculty, and programs. The guide is posted at our website: <http://www.fas.harvard.edu/~cafrica>. A printed version is available at the Committee's administrative office in Coolidge Hall 202, 1737 Cambridge Street, Cambridge, MA, 02138, or by calling (617) 495-5265. The fax number is (617) 496-5183, and email is [cafrica@fas.harvard.edu](mailto:cafrica@fas.harvard.edu).

(Core) Foreign Cultures 70; Literature and Arts B-27, B-78; Social Analysis 52, 56;

Freshman Seminar 17;

Afro-American Studies 11, 136x, 136y, 136z, 140;

Anthropology 98z, 105, 123, 139, 147, 208, 243, 277, 323;

Economics 1366, 1399;

English 167p;

Folklore and Mythology 113, 114, 115;

French 38b, 70c, 191, 194, 289r;

Government 90km, 1100, 2117, 2162, 2197;

History 1902, 1906, 1907, 1908, 1910, 1912, 1913, 1914, 1930, 2908;



History of Art and Architecture 19, 193x, 196;

Medical Sciences 322;

Music 207r;

(Near Eastern Languages and Civilizations) Ethiopic A, 120ar, 120br, 300; Swahili A, 120br;

Social Studies 98aa, 98ca, 98cr;

Women's Studies 110c.

## Afro-American Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Afro-American Studies*

Henry Louis Gates, Jr., W.E.B DuBois Professor of the Humanities (*Chair*)

K. Anthony Appiah, Professor of Afro-American Studies and of Philosophy (*Director of Undergraduate Studies*)

Suzanne P. Blier, Professor of the History of Art and Architecture

Lawrence D. Bobo, Professor of Sociology and of Afro-American Studies (*on leave 1999-00*)

Evelyn Brooks Higginbotham, Professor of History and of Afro-American Studies (*on leave 1999-00*)

Biodun Jeyifo, Visiting Scholar in the W.E.B. Du Bois Institute, Visiting Professor of Afro-American Studies and of English and American Literature and Language (*Cornell University*)

Isaac Julien, Visiting Lecturer on Afro-American Studies and on Visual and Environmental Studies (*spring term only*)

Jamaica Kincaid, Visiting Lecturer on Afro-American Studies and on English and American Literature and Language

J. Lorand Matory, Professor of Anthropology and of Afro-American Studies

Ronald Kent Richardson, Visiting Associate Professor of Afro-American Studies (*Clark University*)

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of Afro-American Studies (*on leave 1999-00*)

Cornel West, Alphonse Fletcher, Jr., University Professor and Professor of Afro-American Studies (FAS) and Professor of the Philosophy of Religion (*Divinity School*)



William Julius Wilson, Harvard University Professor and Malcolm Wiener Professor of Social Policy (*Kennedy School*)

***Other Faculty Offering Instruction in Afro-American Studies***

Barbara E. Johnson, Fredric Wertham Professor of Law and Psychiatry in Society  
Randall L. Kennedy, Professor of Law (*Law School*)  
Marcyliena Morgan, Cross-listed: Other Faculty, Visiting Associate Professor of Education  
Orlando Patterson, John Cowles Professor of Sociology  
Roberto Mangabeira Unger, Professor of Law (*Law School*)

***Primarily for Undergraduates***

**[Afro-American Studies 10. Introduction to Afro-American Studies](#)**

Catalog Number: 0802

*Cornel West and members of the Department*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

An exploration of some of the key texts and issues in Afro-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 Afro-American Studies course already taken if they satisfy the Head Tutor that this course establishes a basic familiarity with the materials covered in Afro-American Studies 10.

**[Afro-American Studies 11. Topics in Afro-American Literature and Culture](#)**

Catalog Number: 1439 Enrollment: Limited to Afro-American Studies concentrators and others by permission of the instructor.

*K. Anthony Appiah*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Topic in 1999–00: The First Black Nationalists. This course will explore the writings of the leading African American intellectuals who constructed the discourse of black nationalism, against the background of African American experience and the broad history of European and American ideas about race, nation and culture. Readings from: E.W. Blyden, Alexander Crummel, Martin R. Delany, W.E.B. Du Bois, Marcus Garvey.

**[Afro-American Studies 12. Topics in Afro-American History and Society: Seminar](#)**

Catalog Number: 2393 Enrollment: Limited to Afro-American Studies concentrators, and others by permission of instructor.

*J. Lorand Matory*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Topic in 1999–00: Afro-Latin Society and Politics. Survey of non-English speaking populations of African descent in the Americas. While the course will focus on Afro-Brazilian lifeways, political struggles, and fundamental contributions to Brazilian national identity, students will take the lead in comparing this case to cases in the Spanish speaking Caribbean and South America, Mexico and Central America, Surinam and the Netherlands Antilles, the French



Caribbean *départements*, and Afro-Latin immigrant populations in the United States. The course hopes to arrive at an understanding on “race” as a culturally specific practice, and thereby both broaden and deepen the students’ understanding of African American life generally.

**\*Afro-American Studies 91r. Supervised Reading and Research**

Catalog Number: 1269

*K. Anthony Appiah and members of the Department*

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

Students wishing to enroll must petition the Head Tutor 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.

**\*Afro-American Studies 98 (formerly Afro-American Studies 98a). Tutorial**

Catalog Number: 6272

*K. Anthony Appiah and members of the tutorial staff*

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

Students wishing to enroll must petition the Head Tutor 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 Afro-American Studies 10, or a substitute course approved by the Head Tutor.

**\*Afro-American Studies 99. Tutorial — Senior Year**

Catalog Number: 8654 Enrollment: Limited to honors candidates.

*K. Anthony Appiah and members of the Department*

*Full course. Hours to be arranged.*

Thesis supervision under the direction of a member of the Department.

***For Undergraduates and Graduates***

**[Afro-American Studies 110. African-American Women’s History: Seminar]**

Catalog Number: 7017 Enrollment: Limited to 25.

*Evelyn Brooks Higginbotham*

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

Explores the history of African-American women from the days of slavery to the 1960s. Special emphasis on such topics as the myths and realities of gender identity for African-American women, family life and the challenges posed by black feminism, work patterns, organizational activities, and cultural production. This is an inter-disciplinary course that draws upon the writings of historians, literary critics, sociologists, and novelists.

*Note:* Expected to be given in 2000–01.

**Afro-American Studies 118. African-American History from the Slave Trade to 1900**

Catalog Number: 7429

*Ronald Kent Richardson (Clark University)*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

The history of the African-American social, political, and cultural development from the slave



trade to the dawn of the 20th century. Examines the internal world of African-American communities as well as their relation to the larger American socioeconomic context. Topics include the impact of slavery, abolitionism and the transition to freedom, regional and cultural differences among African-Americans, and the role of gender and class in black communities.  
*Note:* Required of concentrators.

**Afro-American Studies 119. The History of Racial Thought**

Catalog Number: 5158

*Ronald Kent Richardson (Clark University)*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Explores racial thinking in Europe and America. Beginning with an introductory section on racial thinking, or its absence, from antiquity to the 15th century, the course focuses on the period from the Renaissance to the early 20th century. It attempts to put racial thinking in the West in a global context by drawing comparisons with ethnic and racial thinking in Africa, Asia, and the Middle East.

**[Afro-American Studies 120. African-American Religious History]**

Catalog Number: 2574

*Evelyn Brooks Higginbotham*

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

Surveys the history of African-American religious institutions and beliefs from slavery to the present. Positions the diversity of African-American religious expression within the larger context of black social and political life. Topics include the transmission of African culture to the New World, religion under slavery, independent black churches, race relations, foreign missions, black nationalism, gender and class, and reform resistance.

*Note:* Expected to be given in 2000–01. Offered as Div 2370

**[Afro-American Studies 123. Race, Nation, and Democracy]**

Catalog Number: 2596

*Cornel West and Roberto Mangabeira Unger (Law School)*

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

Studies the relationship between the promotion of group rights and identities and the advancement of democratic experimentalism in social life. Addresses these issues in two settings: 1) the American experience and debate about racism and its relation to class divisions, and 2) the worldwide resurgence of nationalism and the role of the nation-state as an instrument for the expression either of actual national differences or of the will to develop such differences. Explores the consequences of democratic experimentalism and of the efforts of minority groups to establish a generalized politics and law of group identities and rights.

*Note:* Expected to be given in 2000–01.

**Afro-American Studies 123z. American Democracy**

Catalog Number: 2354

*Cornel West and Roberto Mangabeira Unger (Law School)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Considers, in an American setting, the contemporary meaning of the democratic idea, the relation of democratic government to the market economy as well as to the class, gender and racial



divisions of society, and the alternative institutional futures of democracy. Two focal points for the argument of the course are: 1) the exploration of possible, more democratizing arrangements for the organization of government, the economy, and civil society, and 2) the changes in consciousness, culture, and education needed to sustain such arrangements. Seeing American problems and possibilities as variations on worldwide themes, the course asks what it would mean to sacrifice American “exceptionalism” to American experimentalism.

*Note:* Additional discussion hour scheduled weekly. Offered jointly with the Law School as 30500-11.

**[Afro-American Studies 124. Constructions of Identity: Seminar]**

Catalog Number: 3341

*K. Anthony Appiah*

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

Examines the debates about the social construction of race, gender, and sexuality. After exploring some work on gender and on lesbian and gay identities, the course will focus, in particular, on the debates about the interaction between gender and sexuality, on the one hand, and race, on the other. Discussions will center around the claims in political theory for the relevance of these collective identities for conceptions of citizenship and of political life.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 124z. Race, Culture, and Identity](#)**

Catalog Number: 8345

*K. Anthony Appiah*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

As the critique of “race” as a social construction has become increasingly familiar, the concept of culture has been invoked to provide an alternative account of what is distinctive about African-Americans. At the same time, the word “culture” has come to be used in a wider and wider range of contexts, from anthropology and economics to literary and cultural studies. This course will explore some of the intellectual history of the idea of culture and examine critically its invocation in discussions of African American identity.

**[Afro-American Studies 125. Philosophical Problems of Race and Racism]**

Catalog Number: 3822

*K. Anthony Appiah*

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

“Race” is a central term in political debate, social theory and everyday life in our society. It is widely held to be important in large measure because of the history of what we call “racism” in the United States and more generally, in the modern world. Yet there is little reflection on and no consensus about how either “race” or “racism” should be understood. We shall explore three key questions: How are we to understand the term “race”? What is racism? and Why is racism wrong?

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 131. Afro-American Literature to the 1920s]**

Catalog Number: 2589

*Werner Sollors*



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

Considers autobiography within the African American literary tradition from the slave narratives of Phillis Wheatley and Frederick Douglass to contemporary narratives written by Nathan McCall, Brent Staples, and Stephen Carter.

*Note:* Expected to be given in 2000–01. Concentrators may take Afro-American Studies 137y in lieu of Afro-American Studies 131 for 1999–00.

**[Afro-American Studies 132. Afro-American Literature from the 1920s to the Present]**

Catalog Number: 3710

*Werner Sollors*

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

Close readings of major 20th-century writers in the context of cultural history. (I) From the Harlem Renaissance to the Federal Writers' Project: Locke, Toomer, McKay, Fauset, Schuyler, Hughes, Hurston, Wright. (II) From World War II to the present: Ellison, Petry, Baldwin, Hansberry, Jones/Baraka, Morrison, Reed, Johnson, Lee, Dove.

*Note:* Expected to be given in 2000–01.

**[\*Afro-American Studies 132z. Domestic Life in Literature: Seminar]**

Catalog Number: 4074

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

Compares the portrayal of life at home in the literature of writers from the “Metropole” (center of activity) and the writers from the “outlying” areas. Readings from the works of Merle Hodge, Myriam Warner-Vieyra, Jean Rhys, Maria Luisa Bombal, George Eliot, Colette, Charlotte Brönte, Virginia Woolf, and others.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 134. The Literature of Possession: Seminar]**

Catalog Number: 4105

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

Through literary accounts of historical events, the part that imagination played in the relationship between the possessor and possessions as Europeans “took possession” of the New World will be explored. Readings from the works of Christopher Columbus, Meriwether Lewis and William Clarke, Bernal Diaz, C.L.R. James, George Lamming, Marco Polo, V.S. Naipaul, and Salman Rushdie.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 134z. Reading Thomas Jefferson and The African in America](#)**

Catalog Number: 9959

*Jamaica Kincaid*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

“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 United States; 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”.

**[\*Afro-American Studies 135. The Thought of W.E.B. Du Bois: Seminar]**

Catalog Number: 5092

*Cornel West*

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

Examines the key texts of one of the towering African-American intellectuals of the 20th century. Analyzes the classic works of W.E.B. Du Bois as well as reconstructs the varying contexts of these works.

*Note:* Expected to be given in 2000–01.

**Afro-American Studies 135z. James Baldwin and Lorraine Hansberry**

Catalog Number: 2175

*Cornel West*

*Half course (spring term). Tu., 12–2. EXAM GROUP: 14, 15*

Examines the major works—fiction and non-fiction— of these two towering figures. We shall explore their conceptions of what it means to be human, modern, American, and Black.

**Afro-American Studies 136x. Fiction(s) of Race, Fact(s) of Racism: Perspectives From South African and Afro-American Literatures**

Catalog Number: 1281

*Biodun Jeyifo (Cornell University)*

*Half course (fall term). Tu., 12–2. EXAM GROUP: 14, 15*

Examines works of South African and African American fiction and drama in the light of the powerful claim that “race” is a socially constructed fiction with no scientific, rationally provable basis to it. The works explored in the course also see race as a fiction, but consistent with the dialectics of artistic representation, the juxtaposition of the fiction of race to the fact(s) of racism pose the fundamental question: Can we imagine a time, a place, a world where racism, like “race,” will become fiction? Authors examined will include Baraka, Morrison, Naylor, August Wilson, Gordimer, Nkosi, Furgard and Coetzee.

**Afro-American Studies 136y. Key texts of the African Decolonization and Afro-American Liberation Movements**

Catalog Number: 2355

*Half course (spring term). Th., 3–5.*

Comparatively explores key literary texts and documents of the political and cultural movements of Africans and Afro-Americans in the second half of the 20th century. Using debates on the legacies of *Negritude* and the *Black Aesthetic* movements and their relationship to literary and cultural modernity as paradigms, the course will provide a critical framework for engaging Post-War intellectual and artistic relations between Africans and African Americans. In particular, focuses on experimental, avant-garde ideas and practices within the orthodoxies of *Negritude* and the *Black Aesthetic* to explore the connections between art and politics, cultural production and social emancipation.



**[Afro-American Studies 136z. Comparative African and African-American Drama: the Dramaturgy of Wole Soyinka and August Wilson]**

Catalog Number: 0311

*Biodun Jeyifo (Cornell University)*

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

Explores selected plays of Soyinka and Wilson and locates the study of these plays within the broader framework of experimentation in the idioms of theater and performance in Black drama in Africa and the United States. This broader framework also embraces the articulations of ideology and politics within, and between, race, culture, class and gender in contemporary African and African-American drama and theater. Focused, intensive study of the selected plays will be combined with exploration of the issues, challenges, practices and achievements that have defined and shaped Black theater and drama in the second half of this century.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 137y. The African American Literary Tradition](#)**

Catalog Number: 1820

*Henry Louis Gates, Jr.*

*Half course (spring term). M., 12–2. EXAM GROUP: 5, 6*

Considers autobiography within the African American literary tradition from the slave narratives of Phillis Wheatley and Frederick Douglass to contemporary narratives written by Nathan McCall, Brent Staples, and Stephen Carter.

*Note:* Concentrators may take Afro-American Studies 137 in lieu of Afro-American Studies 131 for 1999–00.

**[\*Afro-American Studies 137z (formerly English 90out). Black Women and Their Fiction]**

Catalog Number: 5145

*Henry Louis Gates, Jr.*

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

Intends to define the precise shape and contours of the tradition of black women's writing in English. How do black women use language to represent their experiences? How does their writing resemble or diverge from the black male tradition? How does black feminist theory differ from white feminist theory?

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 138. Richard Wright and Zora Neale Hurston: Seminar]**

Catalog Number: 6227

*Werner Sollors*

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

Investigates the development of Wright's sociological and Hurston's anthropological imagination, with special emphasis on gender, politics, and literary form. Readings include most published and some unpublished writings, against the background of criticism.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 138z. Interracial Literature]**

Catalog Number: 0164

*Werner Sollors*



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

This new course examines a wide variety of literary texts on black-white couples, interracial families, and biracial identity, from classical antiquity to the present. Works studied include romances, novellas, poems, plays, novels, short stories, and non-fiction, as well as some examples from the visual arts. Topics for discussion range from interracial genealogies to racial “passing,” from representations of racial difference to alternative plot resolutions, and from religious and political to legal and scientific contexts for the changing understanding of “race.”

*Note:* Expected to be given in 2000–01.

**Afro-American Studies 140. Syncretism: Seminar**

Catalog Number: 3988

*J. Lorand Matory*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Addresses 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, like jazz and Cuban “Santería.” Examines the cultural prefigurations and political conditions that determine local syntheses and complicate conventional models of cultural retention and purity, acculturation, assimilation, and pluralism. While focused on the African diaspora in the Americas, includes comparative materials from Africa, Asia, Europe, and the Pacific.

*Note:* Offered jointly with the Divinity School as 3827.

**[Afro-American Studies 140z. The Other African Americans]**

Catalog Number: 0300

*J. Lorand Matory*

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

Surveys 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 United States. In this context, students will be 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.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 141 (formerly Anthropology 157). Afro-Atlantic Religions]**

Catalog Number: 3336

*J. Lorand Matory*

*Half course (fall 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 2000–01. HDS 3692



**[Afro-American Studies 142. Afro-Latin Society and Politics]**

Catalog Number: 6648

*J. Lorand Matory*

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

Survey of non-English-speaking populations of African descent in the Americas. While the course will focus on Afro-Brazilian lifeways, political struggles, and fundamental contributions to Brazilian national identity, students will take the lead in comparing this case to cases in the Spanish-speaking Caribbean and South America, Mexico and Central America, Surinam and the Netherlands Antilles, the French Caribbean *départements*, and Afro-Latino immigrant populations in the United States. The course hopes to arrive at an understanding on “race” as a culturally specific practice, and thereby both broaden and deepen the students’ understanding of African-American life generally.

*Note:* Expected to be given in 2000–01. Course being offered as Afro-American Studies 12 in 1999–00.

**[Afro-American Studies 165. Art and Colonialism]**

Catalog Number: 4300 Enrollment: Limited to 12.

*Suzanne P. Blier*

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

The role of colonialism in the definition, delimitation, discourse about art is examined in this course. The principal focus will be on art and colonial experience outside the West with respect to European or American presence. Among the topics raised are the following: the colonial experience and its “trace;” perceptions of the other; research methodologies and marginalization; the politics of collecting, museums, and exhibits; fantasy and the photographic record, the other Other; issues of gender; tourism and the role of foreign markets; native portrayals of the European other; primitivism and modern art.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 165y. African Women in Art and History](#)**

Catalog Number: 2301 Enrollment: Limited to 12

*Suzanne P. Blier*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Looks at the issues of gender identity, power, and display through the lens of key traditions of African art. Women as subjects, patrons, artists, and critics will also be explored in a range of contexts. Female/male aesthetics, male personification of females in masquerades, the prominence of androgyny in African art, “mother gods,” art in contexts of gender socialization, women on local governance, women in colonial discourse, and women on the move, are other issues which will be examined.

*Note:* Meets at the Sackler Museum.

**[Afro-American Studies 165z. Art of the African Diaspora: Seminar]**

Catalog Number: 4873

*Suzanne P. Blier*

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

Explores seminal issues in the arts of the African Diaspora, looking at a range of African-American Visual traditions in the Americas. Both historic and contemporary issues and forms



will be examined in relationship to important traditions of sculpture, painting, dance, architecture, and performance art. Artists discussed will range from Edward Bannister, Edmonia Lewis, and Henry O. Tanner, to Jacob Lawrence, Romare Bearden and Charles White to Mel Edwards, Faith Ringgold, Fred Wilson, and Ike Ude. Carnival performances, Santeria traditions, Vodou ritual forms, and other “popular” or vernacular idioms will be treated as well.

*Note:* Expected to be given in 2000–01.

**[\*Afro-American Studies 170. “Racial Health” and the American South: Conference Course]**

Catalog Number: 7583

*Keith A. Wailoo*

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

Examines the role of economic and political relations in shaping the concept and experience of “racial health” in the American South. Emphasis on the changing relationship between black health and white health; the transformation of plantation medical cultures; urban and rural economies of health and healing; the racial characterization and symbolism of diseases from tuberculosis to syphilis and AIDS; segregation and integration of health care; and the changing place of racial health in regional political economy, in Southern social order, and in the social, intellectual, and political transformation of the region.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 171. Genetics, Race, and Medicine]**

Catalog Number: 7701

*Keith A. Wailoo*

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

Explores development of the knowledge and discourse of genetics in 19th and 20th century America, and the ways in which this knowledge has shaped (and reflected) changes in medical practice, public policy, and social thought. Examines genetics’ impact on notions of health, disease, and racial identity. Principal topics include: the rediscovery of Mendelian inheritance; genetics and eugenics policy; evolving debates over the biology of racial identity; the role of media in shaping perceptions of heredity, race, and disease; case histories of specific “race linked genetic diseases;” the rise of molecular biology and its notions of genetic and social grouping; genetic counseling, genetic testing, and “gene therapy” as political, social, and cultural phenomena.

*Note:* Expected to be given in 2000–01.

**[Afro-American Studies 187y. Black Cinema as Genre—From Blaxploitation to Quentin Tarantino](#)**

Catalog Number: 9338

*Isaac Julien*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

Looks at the history of African-American Cinema (from Oscar Micheaux to Spike Lee) and focuses on the use of stereotypes and hyperbole in some of its post-war popular genres including blaxploitation (Melvin van Peebles). Discussions will focus on issues of sexism and homophobia as well as the way space, time, and the city figure in these cinemas. Topics include: representation of gender in Dash’s *Illusions* and Lee’s *Girl 6*; the role of Pam Grier in



blaxploitation films; the 'soul film' genre (*Superfly*) and black independent cinema (*Ganja and Hess*); the construction of black masculinity in *Boyz 'n the Hood* and gangsta-rap themed *noir* films; and the appropriation of black cinema by other film-makers and genres such as the *aesthetic du cool* of Quentin Tarantino.

*Note:* Previous background in cultural theory and/or film theory recommended but not required.

**[Afro-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 2000–01.

**\*Afro-American Studies 196. Sociological Perspectives on Racial Inequality in America: Seminar**

Catalog Number: 4619 Enrollment: Limited to 30

*William Julius Wilson (Kennedy School)*

*Half course (spring term). M., at 2:30. EXAM GROUP: 7, 8*

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:* Offered jointly with the Kennedy School as HLE-209. Students must attend the first meeting of the class to enroll.

**[Afro-American Studies 196z. Race, Segregation and Inequality]**

Catalog Number: 5210

*Lawrence D. Bobo*

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

Examines the changing status of African-Americans in the post-civil rights era from a variety of social science perspectives. The focus is on major scholarly assessments of the status of Blacks. Among the focal points of inquiry will be: race-based economic inequality; processes of racial residential segregation; and racial prejudice and bias in politics and everyday interaction. Although focused on contemporary issues and research, the course draws on foundational approaches developed by Du Bois, Johnson, and Drake and Cayton in their pioneering assessments of the status of Blacks.

*Note:* Expected to be given in 2000–01.

**\*Afro-American Studies 197. Race, Class and Poverty in Urban America: Seminar**

Catalog Number: 7265 Enrollment: Limited to 30

*William Julius Wilson (Kennedy School)*

*Half course (spring term). M., 2:30–4:30. EXAM GROUP: 7, 8, 9*

Presents a social/historical analysis of the changing nature of urban inequality. Topics include the making of the inner-city ghetto; the new urban poverty; race and class conflict in urban



America; and race, poverty, and public policy.

*Note:* Offered jointly with the Kennedy School as HLE-206. Meets at the Kennedy School. Students must attend the first meeting of the class to enroll—check Kennedy School calendar for date.

### *Cross-listed Courses*

#### [Anthropology 110. Introduction to Social Anthropology](#)

[Anthropology 139. Power, Knowledge, and People in Sub-Saharan Africa]

[Anthropology 147. West African Cultures]

#### [Economics 1357. Historical Perspectives on American Economic Ascendancy](#)

#### [Economics 1800. The Economics of Cities](#)

#### [Economics 1812. Operation of the Labor Market](#)

#### [Economics 1815 \(formerly Economics 1015\). Social Problems of the American Economy](#)

[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance as a Medium of Cultural and Personal Meaning]

#### [Folklore and Mythology 115. The African Oral Tradition](#)

#### [Government 90ke. The Civil Rights and the Anti-Vietnam War Movements: The Changing](#)

#### [Locus of Social Movements](#)

#### [Government 90km. The Political Economy of Africa](#)

[\*Government 2175. Comparative Politics of the Welfare State]

#### [History 1634. U.S. Race and Ethnicity, 1865-1965: Conference Course](#)

[History 1660. Using Primary Sources in African-American History: Seminar]

[History 1912. Health, Disease and Ecology in African History: Conference Course]

[History 1952. Comparative Colonialism: Conference Course]

[History of Art and Architecture 19 (formerly Fine Arts 19d). Image, Icon, and Identity: Introduction to the Art of Africa]

[Literature and Arts B-27. Majesty and Mythology in African Art]

#### [Moral Reasoning 58. Slavery in Western Political Thought](#)

[Psychology 1505. Intergroup Relations]

#### [Social Analysis 38. Social Stratification](#)

#### [Social Analysis 52. Growth and Development in Historical Perspective](#)

[Sociology 60. Race and Ethnic Relations]

[Sociology 135. The Caribbean Experience in America]

[\*Sociology 183. Prejudice, Politics, and Society: Conference Course]

[Sociology 184a. The Origins of Freedom]

[Sociology 184b. Freedom and Society in the Modern World]

#### [\\*Sociology 188. Lines that Divide: Race, Class, Gender, and Ethnicity in the Ethnographic](#)

#### [Tradition: Conference Course](#)

[\*Sociology 189. Culture and Race in the Development of American Society: Conference Course]

[\*Sociology 221. Immigration, Identity and Assimilation: Seminar]



# Anthropology

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Anthropology*

William L. Fash, Bowditch Professor of Central American and Mexican Archaeology and Ethnology (*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, Edwin O Reischauer Visiting Professor of Japanese Studies  
Steven C. Caton, Professor of Contemporary Arab Studies  
Elizabeth S. Chilton, Assistant Professor of Anthropology  
Jennifer Cole, Assistant Professor of Anthropology  
Irven DeVore, Ruth Moore Professor of Biological Anthropology (*on leave spring term*)  
Peter T. Ellison, Harvard College Professor and Professor of Anthropology  
William F. Fisher, Associate Professor of Anthropology and of Social Studies (*on leave fall term*)  
John P. Gerry, Lecturer on Anthropology  
Michael Herzfeld, Professor of Anthropology (*on leave 1999-00*)  
Arthur Kleinman, Professor of Medical Anthropology in the Faculties of Medicine and Arts and Sciences  
Cheryl D. Knott, Assistant Professor of Anthropology  
C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology  
Yun Kuen Lee, Assistant Professor of Anthropology  
Mark Leighton, Lecturer on Anthropology  
Susan F. Lipson, Lecturer on Anthropology  
Carole A. Mandryk, Associate Professor of Anthropology  
Frank W. Marlowe, Assistant Professor of Anthropology  
J. Lorand Matory, Professor of Anthropology and of Afro-American Studies  
David H. P. Maybury-Lewis, Professor of Anthropology  
Castle McLaughlin, Lecturer on Anthropology  
Richard H. Meadow, Senior Lecturer on Anthropology  
Sally F. Moore, Victor S. Thomas Research Professor of Anthropology  
Pauline E. Peters, Lecturer on Anthropology  
David Pilbeam, Henry Ford II Professor of the Social Sciences (*Head Tutor*)  
Robert W. Preucel, Associate Professor of Anthropology  
Maryellen Ruvolo, Professor of Anthropology  
Jennifer Schirmer, Lecturer on Social Studies  
Lawrence E. Stager, Dorot Professor of the Archaeology of Israel  
Mary M. Steedly, Professor of Anthropology (*on leave spring term*)  
David S. Stuart, Lecturer on Anthropology



Stanley J. Tambiah, Esther and Sidney Rabb Professor of Anthropology (*on leave 1999-00*)  
Nikolaas J. van der Merwe, Landon T. Clay Professor of Scientific Archaeology  
Kay B. Warren, Professor of Anthropology (*on leave 1999-00*)  
James L. Watson, John King and Wilma Cannon Fairbank Professor of Chinese Society  
Rubie S. Watson, Senior Lecturer on Anthropology  
Stephen Williams, Peabody Professor of American Archaeology and Ethnology, Emeritus  
Richard W. Wrangham, Professor of Anthropology  
Nur Yalman, Professor of Social Anthropology and of Middle Eastern Studies

***Other Faculty Offering Instruction in Anthropology***

Byron J. Good, Professor of Medical Anthropology (*Medical School*)

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.

***Primarily for Undergraduates***

**\*Anthropology 91r. Supervised Reading and Research**

Catalog Number: 2537

*David Pilbeam and members of the Department*

*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 Undergraduate Office, William James 452), 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

*David Pilbeam and members of the Department*

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

Special study of selected Peabody Museum collections and/or archives, given on an individual basis, and directly supervised by a member of the faculty and a member of the Collections Management Staff. Will require a specific project involving a Museum collection, developed in consultation with the supervisors. Must be taken for a letter grade. Priority given to students in Anthropology and related departments. To enroll, a student *must submit a petition form* (available from the Undergraduate Office, William James 452), signed by both supervisors, as well as a proposed research agenda, during the term preceding the anticipated term of enrollment.

*Note:* Information sheets with Museum contacts available in William James 452.

**\*Anthropology 97x. Sophomore Tutorial in Archaeology**

Catalog Number: 0400

*David Pilbeam and members of the Department*



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

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 97y. Sophomore Tutorial in Biological Anthropology**

Catalog Number: 3170

*David Pilbeam and members of the Department*

*Half course (spring term). Occasional lectures, W., at 1.*

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.

**\*Anthropology 97z. Sophomore Tutorial in Social Anthropology**

Catalog Number: 5832

*David Pilbeam and members of the Department*

*Half course (spring term). Th., at 1.*

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 98xa. Junior Tutorial in Archaeology**

Catalog Number: 2959

*David Pilbeam and members of the Department*

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

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” and 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

*David Pilbeam and members of the Department*

*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 Undergraduate Office, William James 452) with a proposed course plan of study and the tutorial adviser's signature.

*Note:* Required of candidates for honors in archaeology.

**\*Anthropology 98y. Junior Tutorial in Biological Anthropology**

Catalog Number: 3923

*David Pilbeam and members of the Department*

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

Individual tutorial with a member of the biological anthropology faculty for juniors who will be undertaking an honors thesis in senior year. To enroll, a student *must submit a petition form* (available from the Undergraduate Office, William James 452) with a proposed plan of study and the tutorial adviser's signature.

**\*Anthropology 98z. Junior Tutorial in Social Anthropology**

Catalog Number: 4503

*David Pilbeam and members of the Department*

*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.

**\*Anthropology 99. Tutorial — Senior Year**

Catalog Number: 5830

*David Pilbeam and members of the Department*

*Full course. Hours to be arranged.*

Research and writing of the Senior Thesis. Limited to honors candidates. Signature of the faculty adviser required.

***Cross-listed Courses***

**Afro-American Studies 140. Syncretism: Seminar**

[Afro-American Studies 140z. The Other African Americans]

[Afro-American Studies 141 (formerly Anthropology 157). Afro-Atlantic Religions]

[Afro-American Studies 142. Afro-Latin Society and Politics]

[Ancient Near East 105. History of the Ancient Near East: Syria-Palestine (up to Alexander the Great)]

[Ancient Near East 109r. History and Archaeology: Seminar]

[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]



[\[Earth and Planetary Sciences 242. Biogeochemistry of Light Stable Isotopes\]](#)  
[Foreign Cultures 17. Thought and Change in the Contemporary Middle East](#)  
[Foreign Cultures 34. Mesoamerican Civilizations](#)  
[\[Foreign Cultures 62. Chinese Family, Marriage, and Kinship: A Century of Change\]](#)  
[History of Science 172v. Trauma, Memory, and Psychiatry](#)  
[\[History of Science 212. Science, Magic, and “Traditional” Thought: Seminar\]](#)  
[History of Science 272v. The Sciences of Fear: Themes in the Perspective of Anthropology and History](#)  
[Science B-29. Human Behavioral Biology](#)  
[\[Social Analysis 28. Culture, Illness, and Healing: A Cross-Cultural Comparison of Medicine in Society\]](#)  
[\[Social Analysis 36. Religion and Modernization: Cultural Revolutions and Secularism\]](#)  
[Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States](#)  
[Women’s Studies 110c. Gender and Work](#)  
[Women’s Studies 132. Shop ‘Til You Drop: Gender and Class in Consumer Society](#)

*For Undergraduates and Graduates*

[Anthropology 100. Rediscovering Past Societies: A Survey of World Prehistory](#)

Catalog Number: 7182

*Elizabeth S. Chilton and Ofer Bar-Yosef*

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

This course is a survey of human societies of the prehistoric world, from the origins of humanity millions of years ago to the rise and fall of the first civilizations. We will discuss current archaeological reconstructions of prehistory, as well as the methods that are used to form these interpretations. Topics include human evolution, the peopling of the New World, the origins of agriculture, and the ancient civilizations (e.g., the ancient Egyptians, the mound-building peoples of North America, and the ancient Maya). Laboratory sections will give students the opportunity to examine and handle archaeological collections from the Peabody Museum.

*Note: Open to freshmen.*

[Anthropology 101. Introduction to Archaeology](#)

Catalog Number: 8727

*John P. Gerry*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course is concerned with the actual practice of archaeology: How do archaeologists know where to dig? Why do we dig square holes? How do we analyze and understand what we find? These questions and others are discussed in a lecture/lab format that provides an overview of field, laboratory, and interpretive methodology. Among the topics covered are research design, site survey, mapping, sampling excavation strategy, stratigraphy, chronology, artifact classification and data processing. Archaeological method and theory are fully integrated in this course. Peabody Museum collections are used to provide hands-on experience with various methods of analysis.

*Prerequisite: Anthropology 100 suggested but not required.*



**\*Anthropology 103. Genes and Human Diversity**

Catalog Number: 1841

*Maryellen Ruvolo*

*Half course (fall term). Tu., Th., 10–11:30, with weekly section/laboratory to be arranged.*

**EXAM GROUP: 12**

An introduction to human evolution using genetic evidence. Includes fundamentals of population genetics, genetic diversity of living humans, origins of modern *Homo sapiens*, genetic reconstructions of human history, and correspondences with linguistic evidence.

**Anthropology 104. Language and Culture**

Catalog Number: 5844

*Steven C. Caton*

*Half course (fall term). M., W., at 2. EXAM GROUP: 7*

Examines the ways forms of speaking can constitute cultural life and vice versa. Though different approaches to this kind of study will be surveyed, an ethnographic one will be emphasized. A comprehensive overview of linguistic theories of structuralism and their criticism will form the basis on which to proceed to this ethnographic approach. Topics will include: the structuralisms of Ferdinand de Saussure, Roman Jakobson, and Edward Sapir; the Sapir-Whorf Relativity Hypothesis and its modern evocations; speech indexicality and pragmatics; performativity; Bakhtinian dialogicality; and poetry and poetics.

*Note:* No previous knowledge of linguistics or of anthropology is required. Graduate section optional.

**Anthropology 105. Food and Culture**

Catalog Number: 0206

*James L. Watson*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

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 exchanges and social boundaries, food symbolism and medical systems, sacrifice and communion rites, the social construction of food, and the world standardization of food preferences. Examples are drawn from China, India, Latin America, Africa, Europe, the Pacific, and the United States.

**[Anthropology 106. Primate Social Behavior]**

Catalog Number: 4332

*Richard W. Wrangham*

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

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.



*Note:* Expected to be given in 2000–01.

*Prerequisite:* Introductory biology or Science B-29.

### **[Anthropology 107. The Conservation Ecology of Tropical Rainforests]**

Catalog Number: 1354

*Mark Leighton*

*Half course (spring term). M., W., F., at 10, and a two-hour laboratory/discussion section weekly. EXAM GROUP: 3*

Introduction to the ecological concepts and analytical tools of conservation biology, illustrated by the problem of interpreting, preserving, and managing tropical rainforest habitat, and species and genetic diversity. Emphasis is on the ecological and evolutionary processes that have engendered and maintain biodiversity, the design of protected areas, population viability analysis, and evaluating the impacts of human activities and policies. Research strategies that integrate biological and social science elements of the problem are also examined.

*Note:* Expected to be given in 2000–01. Biological Sciences 2 or an introductory ecology or evolution course is recommended as preparation.

### **Anthropology 110. Introduction to Social Anthropology**

Catalog Number: 8296

*Jennifer Schirmer (fall term) and Jennifer Cole (spring term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 1–2:30; Spring: M., W., F., at 11. EXAM GROUP: Fall: 15, 16; Spring: 4*

An introductory exploration of anthropological approaches to society, culture, language, and history. Lectures, readings, and recent ethnographic films give an in-depth look at social and cultural diversity. Students are given the opportunity to grapple with the intellectual and ethical challenges that confront all anthropologists in making sense of human difference, experience, and complexity. The instructors bring insights from their own ethnographic fieldwork in other societies and share their theoretical expertise in examining a wide range of topics, including kinship, social and political hierarchy, exchange, subsistence patterns, gender, language, ideology, religion, and global political economic systems.

*Note:* Open to freshmen.

### **Anthropology 111. Behavioral Endocrinology**

Catalog Number: 2265

*Peter T. Ellison*

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

An introduction to the interaction between the endocrine system and behavior, stressing primates and humans. General principles of the functioning of the endocrine system are presented first, including a survey of major hormonal axes affecting or responding to behavior, hormone production, receptor interactions and signal transduction, and feedback regulation. Subsequent topics include the relationship of the endocrine system to feeding and foraging behavior, learning and memory, acute stress, dominance interactions, and sexual behavior.

*Note:* This course is a prerequisite for Anthropology 118.

*Prerequisite:* Science B-29, Science B-17, Biology 1, or Biology 2.



**Anthropology 114. Evolution of Human Sexuality: Research Seminar**

Catalog Number: 8546 Enrollment: Limited to 10. Preference given to anthropology undergraduates.

*Frank W. Marlowe*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Examination of human sexuality in evolutionary perspective. Students conduct empirical research projects. Topics may include sexual selection, mate preferences, mating systems, and sexual orientation.

*Note:* Fulfills the research seminar requirement for anthropology concentrators.

*Prerequisite:* Science B-29 or permission of instructor.

**Anthropology 115. Primate Evolutionary Ecology**

Catalog Number: 0571

*Mark Leighton*

*Half course (spring term). M., W., (F.), at 11, with weekly laboratory/field sessions to be arranged. EXAM GROUP: 4*

A survey of interactions between primates and their environments in an evolutionary context. Lectures discuss the influence of competition, predation, and other ecological processes on primate morphological and behavioral adaptations, population distribution and abundance, and coevolutionary relationships with other species in the community. Interspecific comparisons are developed by empirical and theoretical treatment of food resources and feeding patterns, ranging and intergroup spacing, mating systems and sociality, and community structure and niche relationships. Laboratory and field exercises teach some methods of ecological investigation using local vertebrates.

*Prerequisite:* An introductory course in Biology, or Science B-29, or permission of instructor.

**\*Anthropology 118. Endocrinology and Behavior: Research Seminar**

Catalog Number: 1437 Enrollment: Limited to 12. Preference given to anthropology graduate and undergraduate students.

*Susan F. Lipson and Peter T. Ellison*

*Half course (spring term). M., W., at 1 with laboratory either M. or W. 2-5. EXAM GROUP: 6*

An introduction to laboratory techniques and research design in behavioral endocrinology. Students develop and conduct pilot research projects.

*Note:* Fulfills research seminar requirement for anthropology concentrators.

*Prerequisite:* Anthropology 111.

**[Anthropology 121. Biological Anthropology and Human Affairs]**

Catalog Number: 3505

*Mark Leighton*

*Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8*

A seminar examining issues confronting humans in the 21st century that might be clarified and advised by the ecological and evolutionary perspectives of biological anthropology. Readings, discussions and debates foster critical analysis of arguments influencing international and national public policy.

*Note:* Expected to be given in 2000–01.



### **Anthropology 122. Japanese Society and Culture**

Catalog Number: 6564

*Theodore C. Bestor*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Course examines contemporary Japanese social organization and cultural identity through ethnographic writings about peasant communities, urban families, wholesale markets, baseball teams, bankers, consuming adolescents, and cross-dressing entertainers, viewed through recent developments in anthropological theory and set against classic works of synthetic anthropological analysis that view Japan as a unitary pattern of culture. Forms of hierarchy and egalitarianism in such domains as family, gender, community, class education, workplace, and ethnicity will be one theme of the course. Another will be patterns of individual and collective identity expressed through interpersonal relationships, collective ritual, public culture, and consumption. Both social organization and identity are historical and contemporary formations, and course examines them in light of Japan's linkages with other East Asian civilizations and its encounters with Western and other societies during the 19th and 20th centuries.

*Note:* Graduate students may enroll and make arrangements for specialized readings and assignments.

### **Anthropology 123. Environment and Environmentalism: Anthropological Perspectives: Conference Course**

Catalog Number: 0889 Enrollment: Limited to 25

*Pauline E. Peters*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

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 omitted in 2000–01.

### **Anthropology 125. Primate and Human Nutrition: Research Seminar**

Catalog Number: 7064 Enrollment: Limited to 6. Preference given to anthropology undergraduates.

*Cheryl D. Knott*

*Half course (fall term). M., W., 2–5. EXAM GROUP: 7, 8, 9*

An introduction to laboratory study in the biochemical analysis of plant and animal foods, and of human and animal digestive physiology and feeding behavior.

### **Anthropology 126. Self and Emotion in Society**

Catalog Number: 9439

*Jennifer Cole*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

This seminar provides a basic introduction to the key concepts in psychological anthropology. We will explore the interconnections and construction of self and society in a variety of different



situations and historical contexts. Topics covered include the cultural construction of emotion, how we should conceptualize the self and how it is constructed in different contexts, how culture can both hurt and heal individuals, and individual and collective responses to violence.

*Prerequisite:* Introduction to anthropology or permission of the instructor.

**[Anthropology 129. Evolutionary Ecology: Research Seminar]**

Catalog Number: 3755 Enrollment: Preference given to anthropology undergraduates.

*Richard W. Wrangham*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

An introduction to analytical issues in evolutionary ecology, focused on primates including humans. Students have the opportunity to develop and conduct pilot research projects. Empirical research is accompanied by a critical reading and discussion of papers on such topics as foraging theory, nutritional ecology, social evolution, and community ecology.

*Note:* Expected to be given in 2000–01. Fulfills the research seminar requirement for Anthropology concentrators.

*Prerequisite:* Science B-29 or Biology 22 or permission of instructor.

**Anthropology 137. Human Behavioral Ecology**

Catalog Number: 6675

*Frank W. Marlowe*

*Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8*

The behavioral ecology of humans is examined cross-culturally, and in relation to other species. Topics include life history theory, mode of subsistence, parental care, sexual selection, marriage, cooperation, inter-group conflict, and cultural evolution.

**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 from an evolutionary and biosocial perspective. Focuses on physiological, ecological, and social aspects of women's development from puberty, through reproductive processes such as pregnancy, birth, lactation, to menopause and aging. Also explores female life history strategies in a variety of cultural settings. Topics include cognitive and behavioral differences between men and women; violence against and by women; and women's reproductive health choices. Examples are drawn primarily from traditional and modern human societies; data from studies of nonhuman primates are also considered.

**[Anthropology 139. Power, Knowledge, and People in Sub-Saharan Africa]**

Catalog Number: 9171

*Jennifer Cole*

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

Course surveys a variety of African cultures South of the Sahara emphasizing African agency and resistance, social change, and historical and contemporary relationships among African peoples and between them and the rest of the world. Topics include tribalism and ethnicity, hunter-gatherers, gender and women's roles, and the role of ancestors and spirits in fashioning



African modernities. Course materials include ethnographies, novels, and films.  
*Note:* Expected to be given in 2000–01.

**Anthropology 140. The Transition from Hunting-Gathering to Agriculture**

Catalog Number: 1837

*Ofer Bar-Yosef and Richard H. Meadow*

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

Introduces and critically evaluates data and ideas concerning strategy changes during the transition from hunting and gathering to agriculture in different regions of the world. Each regional session includes a brief summary of prehistoric hunter-gatherers in the area, the transition to farming, horticultural, or pastoral communities, the domestication of plants and animals, and the major interpretations or explanations for the transition.

*Note:* Expected to be omitted in 2000–01.

**[Anthropology 141. Society and History in Island Southeast Asia]**

Catalog Number: 7487

*Mary M. Steedly*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Focuses on insular Southeast Asia, examining the micropolitics of everyday life as shaped by the interplay of state and local systems of allegiance and authority. The first part of the course moves historically from the emergence of early maritime trading states through colonial incorporation and post–World War II independence movements. Part two explores contemporary social life in the postcolonial nation-state.

*Note:* Expected to be given in 2001–02.

**Anthropology 144. The Archaeology of Ancient China**

Catalog Number: 4731

*Yun Kuen Lee*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Ancient China offers unique opportunities for the study of cultural and social evolution. It presents a long and uninterrupted continuum of development from the appearance of early humanity to the rise of complex civilization. In addition, we have at our disposal an extensive body of archaeological data and textual material, that are seldom available together in the other parts of the world. This course investigates the archaeology of ancient China from an anthropological perspective. Particular attention will be paid to how human groups adapted to natural and social environments.

*Note:* Expected to be omitted in 2000–01.

**[Anthropology 145. Imagining India]**

Catalog Number: 7188

*William F. Fisher*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Using South Asia as its topic, this course examines the poetics and politics of representation. As an exploration of the various ways in which the “other” has been encountered and represented, it considers debates over orientalist, colonialist, nationalist, and ethnographic imaginations. Course



materials include ethnographies, colonial texts, novels and films.

*Note:* Expected to be given in 2000–01.

**[Anthropology 147. West African Cultures]**

Catalog Number: 7668

*J. Lorand Matory*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Explores the history and lifeways of several West African peoples, including the Yoruba, Hausa, Fulani, Ashanti, Mende, and Wolof, and highlights their ancient participation in international politics and commerce. Special attention given to transformations of ethnic identity, gender relations, religious devotion, and economic production in the 20th century.

*Note:* Expected to be given in 2000–01.

**[Anthropology 148. Gifts and Goods: Anthropological Approaches to Political Economy]**

Catalog Number: 0535 Enrollment: Open only to upperclass and graduate students.

*Stanley J. Tambiah and William F. Fisher*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Critically examines a variety of theoretical frameworks or understanding so-called “economic facts” and their placement within larger social, political, and cultural contexts, and for understanding how the production, distribution, and consumption of economic goods and services relate to networks of social relations, structures of exchange, relations of power, and institutions of family, class, caste, etc. The course concludes with an examination of gifts/commodities in late capitalism, the possibilities of alternative development strategies in the post-colonial world, and the nature and consequences of globalization.

*Note:* Expected to be given in 2000–01.

**[Anthropology 151. North American Prehistory]**

Catalog Number: 1421

*Carole A. Mandryk*

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

An introduction to the archaeology and cultural developments of North America north of Mexico, from first settlement to the arrival of Europeans. Focuses on human adaptation and interaction with the environment, subsistence, settlement patterns, technology, gender and ideology. Reviews major theoretical transformations in North American archaeology; explores some of the major methodological and theoretical problems of selected areas and time periods; examines the archaeological record in specific regions; and examines general trends in cultural evolution on a continental scale.

*Note:* Expected to be given in 2000–01.

**[Anthropology 155. Ancient Scripts and Their Decipherment](#)**

Catalog Number: 7704

*David S. Stuart*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Addresses ancient scripts and their decipherment.



**[Anthropology 156. Religions of Mesoamerica]**

Catalog Number: 3698

*David S. Stuart*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

Examines the religious traditions of ancient and modern Mesoamerican peoples (including the Aztec, Mixtec, Zapotec, Maya, Teotihuacan and Olmec), integrating archaeological, artistic, documentary, and ethnographic source materials. Topics to be investigated include cosmology and world-view, sacred landscapes, divine rulership, shamanism, ancestor worship, public rituals and festivals, healing, among others, and how these topics were discussed and represented in ancient arts and literatures. The course will also study the religious consequences of Spanish domination as seen up to the present day.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3705.

**Anthropology 159. Museums and Representations: Seminar**

Catalog Number: 4185 Enrollment: Limited to 12

*Rubie S. Watson*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Treats the ethnographic museum as a focus for historical and cultural study. By analyzing one early Peabody Museum collection (containing some of the oldest examples of eighteenth and nineteenth century Native American, Pacific Island, and African artifacts and art), students will consider the different ways in which material culture is collected, housed, and exhibited. Readings and discussions will include issues of art/artifact distinctions, ownership and display, history of collecting and display in anthropology. Students will be asked to work with objects in the Peabody Museum's collections and archival documentation.

**\*Anthropology 163. Molecular Evolution of the Primates**

Catalog Number: 3359

*Maryellen Ruvolo*

*Half course (spring term). Th., 1–4, with section to be arranged. EXAM GROUP: 15, 16, 17*

Introduction to the primates, emphasizing their molecular phylogenetic relationships 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.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Anthropology 103.

**Anthropology 166. Archaeological Science**

Catalog Number: 2013

*Carole A. Mandryk*

*Half course (spring term). M., 7–10 p.m. EXAM GROUP: 18*

Pressing issues in archaeology as an anthropological science. Stresses the natural science and engineering methods archaeologists use to tackle them. Reconstructing time, space, and human ecologies provides one focus; materials technologies that transform natural materials to material culture provide another. Topics include 14C 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. Call 253-1375 for more information.

*Prerequisite:* One year of college-level chemistry or physics.

### **Anthropology 172. Sociocultural Space and Time: Seminar**

Catalog Number: 6527

*Engseng Ho*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Social theory since Durkheim and Mauss has explicitly engaged the dimensions of space and time in confronting the diversity of sociocultural forms. We will begin with the classical sociological impetus which animated interest in the subject, then move on to discrete topical concerns such as landscape, place, travel, built form, memory, genealogy, industrialization, sacrality. The course will end with a consideration of recent works on the cultural politics of space and time. Presentation and research paper required.

### **Anthropology 176. New Perspectives on Political Anthropology in the Contemporary World: Seminar**

Catalog Number: 4698

*Jennifer Schirmer*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

This course will examine anthropological approaches to power, domination and resistance. We will consider a number of themes of contemporary political and social importance such as the nature of power, and the state, cultural hegemony, violence, cultures of fear, social movements of resistance and human rights. Ethnographic narratives will be woven into these discussions as a way of grounding the theoretical discussion in everyday practice

### **[Anthropology 180. The Maya]**

Catalog Number: 3176

*David S. Stuart*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

An introduction to the archaeology and history of Maya peoples, beginning with their distant prehistoric origins and continuing with a detailed exploration of the pre-Columbian civilization. Examines the nature and development of sociopolitical organization, economy, and religion, making use of recent archaeological discoveries and new breakthroughs in hieroglyphic decipherment. Also discusses colonial and modern struggles to survive and adapt in the postconquest world.

*Note:* Expected to be given in 2000–01.

### **Anthropology 184. Ethnicity in the Americas: The Indian Question**

Catalog Number: 6872

*David H. P. Maybury-Lewis*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Discusses, from the point of view of political anthropology, the historical developments and regional circumstances that have influenced relations between indigenous peoples and others in



the Americas. Considers indigenous efforts to resist assimilation and contemporary indigenous struggles for limited autonomy in Mexico, Peru, Brazil, and the United States. Concludes by showing how these issues are affected by the national agenda of American states and how the indigenous experience in the Americas relates to the problems and prospects of multiethnic societies worldwide.

**[Anthropology 185. Archaeological Recording, Illustration, and Publication]**

Catalog Number: 7266

*William L. Fash*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

The archaeological record should be well represented in the published record, not just through verbal description and insightful analysis, but by thorough, informative, well-conceived, and well-printed illustrations. This course enables students to gain substantive knowledge and practical experience in various classes of recording and illustration necessary for the preparation of first-rate archaeological publications. Topics covered include computer mapping, cartography more broadly, photography, artifact illustration, and publication design and priorities. Substantial laboratory time is vital to the successful completion of the course requirements.

*Note:* Expected to be given in 2000–01.

**Anthropology 186. Ceramics and Exchange in Mesoamerica**

Catalog Number: 3047

*William L. Fash*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Exchange systems in pre-Hispanic Mesoamerica were inextricably linked with the evolution of complex society on the local level, and the development of larger sociopolitical units for the cultural area as a whole. We will examine how Mesoamerican ceramics have been collected and analyzed to address issues of exchange, both within and between regions, from the Early Preclassic to the present day. The course will include analysis of some of the Peabody Museum collections from various parts of ancient Mesoamerica.

*Note:* Expected to be omitted in 2000–01.

**Anthropology 190. Quantitative Methods In Anthropology**

Catalog Number: 3491

*Yun Kuen Lee*

*Half course (spring term). Tu., 1–3, with laboratory to be arranged. EXAM GROUP: 15, 16*

Examines the application of quantitative methods in Anthropology. Emphasizes the understanding of statistical inferences from intuitive reasoning and getting meaningful answers to anthropological problems. Weekly exercises are designed to give students hands-on experience on the application of quantitative methods in Anthropology by using packaged statistical programs on the computer. Students will have the chance to experiment systematically with data in order to estimate probabilities and make statistical inferences, to extract data structures by using univariate and bivariate methods in anthropological research.

*Note:* Expected to be omitted in 2001–02. Open to both graduates and undergraduates.

*Prerequisite:* Undergraduates must have completed the quantitative reasoning requirement.



**[Anthropology 193. The Varieties of Human Suffering: Culture, Experience, and the Moral Order]**

Catalog Number: 1330

*Arthur Kleinman*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Examines the experience of suffering, its social sources, and cross-cultural elaboration through study of those afflicted by chronic illness, AIDS, extreme conditions (Holocaust, Cambodian genocide, Cultural Revolution, famine) and routinized features of social life (poverty, homelessness, downward social mobility, bereavement). Compares ethnographic and historical studies, biography, films, fiction, and works of social theory to understand experiences of misfortune from perspectives of different cultures and professions. What does anthropological study of suffering disclose about human conditions, changing moral order of societies, and professional ethical discourse? What does ethnography of experience contribute to anthropological theory or offer sufferers?

*Note:* Expected to be given in 2002–03.

**\*Anthropology 194r. Topics in Primate and Human Evolution**

Catalog Number: 2462

*David Pilbeam*

*Half course (fall term). Tu., 1:30–3, with laboratory to be arranged. EXAM GROUP: 15, 16*

A lecture-seminar-laboratory course on current issues in the fields of paleoanthropology and evolutionary primatology.

*Note:* Fulfills the research seminar requirement for anthropology concentrators.

*Prerequisite:* Anthropology 117 or equivalent.

**Anthropology 195. Visual Anthropology: Seminar**

Catalog Number: 6257

*Castle McLaughlin*

*Half course (spring term). Th., 1–4. EXAM GROUP: 15, 16, 17*

Surveys the construction, use and analysis of visual documents by anthropologists and the role of visualization practices in society. Focusing first on still images and then on film and video, course units explore changing approaches to the visual representation and interpretation of culture as these approaches have been guided by disciplinary theory and practice. The construction of meaning in images and their critical analysis is emphasized throughout. Topics include image making as a research tool, social documentary, ethics, indigenous productions, and films as cultural documents.

**Anthropology 196. Archaeology of New England**

Catalog Number: 6397

*Elizabeth S. Chilton*

*Half course (fall term). Th., 1–4. EXAM GROUP: 15, 16, 17*

Survey of the 11,000 year prehistory of New England, from the original colonization of the region at the end of the Pleistocene to the initial contacts between native peoples and Europeans. Using archaeological and ethnohistoric data, this course traces the major transformations in the lifeways of native peoples in the region—from hunter-gatherers, to farmers, to the profound effects of the Contact Period. Topics include: the reconstruction of past environments, artifact



analysis, kinship, subsistence, settlement patterns, technology, trade, political economy, and ideology. The use of the Peabody Museums artifact collections and visits to local archaeological sites will augment the lectures and discussions.

*Note:* Expected to be omitted in 2000–01. Open to both undergraduate and graduate students by permission of instructor.

**[\*Anthropology 197. Archaeological Laboratory Techniques]**

Catalog Number: 6802 Enrollment: Limited to 20.

*Elizabeth S. Chilton*

*Half course (spring term). Th., 1–4. EXAM GROUP: 15, 16, 17*

This course is an introduction to basic laboratory techniques in archaeology. Students will learn the basics of processing, cataloging, and analyzing the most common types of artifacts recovered from archaeological sites (e.g., ceramics, lithics, bone, etc.). Other topics to be covered include artifact reconstruction, curation, photography, and conservation. Term projects will consist of analyzing a set of artifacts of the student's choosing. Artifacts analyzed in this course will consist primarily of prehistoric artifacts from New England, but students may also use collections elsewhere.

*Note:* Expected to be given in 2000–01. Some archaeology background helpful.

***Primarily for Graduates***

**[\*Anthropology 200a. Osteoarchaeology Lab]**

Catalog Number: 0363 Enrollment: Limited to 12

*Richard H. Meadow*

*Half course (fall term). W., 1–5, and four additional hours to be arranged. EXAM GROUP: 6, 7, 8*

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 2000–01. Given in alternate years. Open to qualified undergraduates. Fulfills osteology requirement for archaeology graduate students.

**\*Anthropology 203. Human Genetic Diversity: Seminar**

Catalog Number: 0775 Enrollment: Strictly limited to biological anthropology graduate students.

*Maryellen Ruvolo*

*Half course (fall term). Th., 1:30–3. EXAM GROUP: 15, 16*

Restricted to biological anthropology graduate students preparing for general exams. To be taken concurrently with Anthropology 103 lectures, with additional weekly meeting to be arranged.

*Note:* In addition to weekly afternoon seminar meetings, students are expected to attend the regular fall term lectures of Anthropology 103 (Tu., Th., 10–11:30).

**Anthropology 204. Ape and Human Sexuality**

Catalog Number: 3254 Enrollment: Limited to graduate students.

*Cheryl D. Knott and Richard W. Wrangham*

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

This course uses evolutionary biology to create a comparative perspective on human sexuality.



Through readings and discussion, we examine the biology of major sexual and reproductive events for apes, humans and other primates, and consider how they are influenced by social, cultural and ecological pressures.

**\*Anthropology 205a. History and Theory of Social Anthropology: Proseminar**

Catalog Number: 1752

*Mary M. Steedly*

*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 Ph.D. in Social Anthropology. Limited to doctoral candidates. Not open to undergraduates.

**Anthropology 205b. History and Theory of Social Anthropology: Proseminar**

Catalog Number: 7971

*Steven C. Caton*

*Half course (spring term). W., 3–6. EXAM GROUP: 8, 9*

Continuation of Anthropology 205a. Limited to doctoral candidates. Not open to undergraduates.

**Anthropology 206r. Topics in Paleolithic Archaeology and Human Evolution**

Catalog Number: 8630

*Ofer Bar-Yosef and David Pilbeam*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Presentations and discussions of selected topics in Paleolithic archaeology and human evolution in the Old World. Among the main issues the “out of Africa” by *Homo erectus*, the emergence and dispersals of modern humans, the colonization of Eurasia, the survival strategies of the Neanderthals and their demise, the use of radiometric techniques, the transition to Upper Paleolithic cultural manifestations, and the foraging strategies of past hunter-gatherers.

**\*Anthropology 207 (formerly Anthropology 207a). Archaeological Method and Theory: Seminar**

Catalog Number: 4634

*C. C. Lamberg-Karlovsky*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Examines the historical development and philosophical basis of archaeological method and theory. Discussions focus on critical evaluation of interpretive models, including culture history, positivism, hermeneutics and critical theory. Special attention given to current debates and controversies, including the processualist-postprocessualist debate and the future of archaeology in a changing social and political climate.

*Note:* Expected to be omitted in 2000–01. Required of first-year students in Archaeology; open to other graduate students in the department.

**[Anthropology 208. Africa in the Iron Age]**

Catalog Number: 7845

*Nikolaas J. van der Merwe*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Seminar on the evolution of metal-using cultures in Africa, with emphasis on the area south of



the Sahara from about 2000 B.C. to 1900 A.D. Africa has a rich and complex pre-colonial history, which is often ignored due to the lack of written records, but which is illuminated by archaeology.

*Note:* Expected to be given in 2001–02.

*Prerequisite:* Graduate standing in archaeology or permission of the instructor.

**Anthropology 209r. Archaeometry Laboratory Practicum**

Catalog Number: 3977

*Nikolaas J. van der Merwe*

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

Supervised archaeometric laboratory research. Each student will normally propose his/her own topic, which may form part of the research for a thesis or another course.

**Anthropology 211r. Issues in Mesoamerican Archaeology: Seminar**

Catalog Number: 7276

*David S. Stuart*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

A consideration of the reconstruction of pre-Hispanic societies in Mexico, Guatemala, and lower Central America, with particular emphasis on the development of political organization and its maintenance through the manipulation of symbols in ritual and art and the control of economic processes.

**[Anthropology 212. Current Topics in Human Evolutionary Genetics]**

Catalog Number: 1175

*Maryellen Ruvolo*

*Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8*

Critical reading of current literature on the genetics of living humans and discussion of evolutionary implications.

*Note:* Expected to be given in 2000–01. Open to undergraduates doing senior thesis research in this area.

*Prerequisite:* Anthropology 103.

**Anthropology 213. Theories of Discourse and Culture in the Middle East**

Catalog Number: 8989

*Steven C. Caton*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

The discursive construction of culture and its complex politics are examined in a wide range of ethnographies that have been written recently on countries in the Middle East, including Lebanon, Jordan, Israel/Palestine, Egypt, Morocco and Yemen. Among the theoretical topics to be considered are orientalism, colonialism and post-colonialism, nationalism, self, gender, and tribalism.

**Anthropology 216. Law Matters: How to Use Such Matters in Field Work**

Catalog Number: 9049

*Sally F. Moore*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*



This course will review ways in which anthropologists have used legal disputes, legal ideas (such as the idea of property, or the idea of the constitution of government), legal situations (how to collect a debt, get a divorce), legal categories, and other such instances. How to do focussed fieldwork: a practicum.

**Anthropology 217. Human Evolution Seminar**

Catalog Number: 6884 Enrollment: Limited to graduate students in Biological Anthropology.

*David Pilbeam*

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

Reading and discussion of current research in human evolution, taken with lectures, labs and tests of Science B-27.

*Note:* Required of entering graduate students in Biological Anthropology.

**[Anthropology 218. The Archaeology of Organization: Seminar]**

Catalog Number: 8220

*Yun Kuen Lee*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

This course discusses the transformation of human societies, beginning with the simple form of family household to the complex form of state organization. We are going to concentrate on the building of a theoretical framework that can present the archaeological evidences as a coherent whole.

*Note:* Expected to be given in 2000–01.

**[Anthropology 221. The Anthropology of Knowledge: Seminar]**

Catalog Number: 7070

*Michael Herzfeld*

*Half course (fall term). Th. 3–5. EXAM GROUP: 17, 18*

A unified perspective for the analysis of traditions of knowledge ranging from New Guinea mystery cults to modern sciences. The theoretical focus is on the processes that constitute knowledge: its creation, transmission, and distribution in society. Linkages between substantive contents, modes of representation, and social organization will be explored.

*Note:* Expected to be given in 2000–01.

**Anthropology 224. Anthropology, Relativism, and Human Rights**

Catalog Number: 7038

*David H. P. Maybury-Lewis*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Considers the nature and origins of anthropological relativism and whether the serious study of other cultures and/or postmodern styles of interpretations entail some kind of relativism.

Examines, through the analysis of specific dilemmas, the theoretical and practical implications of subscribing to relativistic views about cultural, social or ethical systems if one wishes to take a stand on human rights issues.

**[Anthropology 225. Mortuary Analysis: Seminar]**

Catalog Number: 7852

*Yun Kuen Lee*



*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Mortuary data is one of the most frequently recovered data classes in archaeology. This course examines the epistemology, theory, and method of the use of mortuary data in archaeological research from the perspective of the various current archaeological schools.

*Note:* Expected to be given in 2000–01.

**[Anthropology 226. The Social Anthropology of Food: Seminar]**

Catalog Number: 0797 Enrollment: Limited to graduate students.

*James L. Watson*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Social and cultural aspects of food are highlights; nutritional issues are secondary. Topics include food exchange and reciprocity, standardization and globalization, food symbolism, food and social boundaries, the cultural construction of “food.” Focus on student research projects.

*Note:* Expected to be given in 2000–01.

**Anthropology 229. Behavioral Biology Seminar**

Catalog Number: 3777

*Irven DeVore 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 232. Quaternary Pollen Analysis]**

Catalog Number: 8352 Enrollment: Limited to 6

*Carole A. Mandryk*

*Half course (spring term). Tu., 1–3, lab hours to be arranged. EXAM GROUP: 15, 16*

Introduction to pollen analysis as a tool for the reconstruction of past vegetation and environments, and its application to climate change, archaeology and geology. Specific topics include collection of samples, pollen extract procedures, pollen grain morphology and identification, and interpreting pollen data. Laboratory sessions provide an introduction to analytical procedures.

*Note:* Expected to be given in 2001–02.

**Anthropology 233r. Palynology Laboratory Practicum**

Catalog Number: 8925

*Carole A. Mandryk*

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

Supervised palynological laboratory research. Each student will normally propose his/her own topic, which may form part of the research for a thesis or another course.

*Prerequisite:* Anthropology 232.

**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 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 237 (formerly Anthropology 283). Behavioral Ecology**

Catalog Number: 6428

*Frank W. Marlowe and Richard W. Wrangham*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 6, 7*

Reading and discussion of current topics in behavioral ecology, with special emphasis on primates (including humans) in parallel with Anthropology 137: Human Behavioral Ecology.

**[Anthropology 238. Anthropology and the Development Encounter]**

Catalog Number: 6409 Enrollment: Limited to 18

*William F. Fisher*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Considers the interrelation of culture and power through an exploration of the “development” encounter. Examines the extent to which development can be seen as a uniform phenomenon; the impact of development on the social and imaginative relations of “developed” and “underdeveloped” people; and the place of anthropology in the development endeavor.

*Note:* Expected to be given in 2000–01.

**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 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 240. History, Structure, and Experience]**

Catalog Number: 0672 Enrollment: Limited to 15

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

A critical exploration of the possibilities of mutual engagement between historical and ethnographic approaches to social analysis.

*Note:* Expected to be given in 2000–01.



**Anthropology 242. Human Biology Seminar**

Catalog Number: 4580 Enrollment: Limited to graduate students.

*Peter T. Ellison*

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

A seminar in current topics in human biology intended for first and second year graduate students in anthropology. Fulfills the human biology qualifying requirement for graduate students in biological anthropology.

*Note:* Required of entering graduate students in biological anthropology. Open to other graduate students with permission of instructor.

**Anthropology 243. History of Metal Technology**

Catalog Number: 2751

*Nikolaas J. van der Merwe*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Seminar on the origins and dispersals of early metal technologies, with emphasis on copper and iron. Topics include the discovery of copper smelting and its elaboration into bronze metallurgy and its divergent paths in Europe and China; and metallurgy in Africa and the Americas.

*Note:* Expected to be omitted in 2000–01.

**Anthropology 244. Anthropology and Social Issues**

Catalog Number: 8255

*David H. P. Maybury-Lewis*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Examines anthropology's founding claim to be a science in the service of a higher tolerance. Deals with debates over race, evolution, colonialism, human nature, rationality, prejudice, gender, epistemology, advocacy and science.

**[Anthropology 245. Culture, Mental Illness and the Body]**

Catalog Number: 6013

*Byron J. Good (Medical School)*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Briefly reviews the figure of mental illness in Western thought and the social sciences, then focuses on themes in cross-cultural studies of psychopathology: culture and diagnosis; cultural influences on dissociation, depression, schizophrenia; madness in non-Euroamerican healing systems and transnational aspects of psychiatry; and the image of the brain in psychiatric research.

*Note:* Expected to be given in 2000–01.

**Anthropology 246. Maincurrents in Anthropological Thought**

Catalog Number: 9980 Enrollment: Limited to graduate students.

*Nur Yalman*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

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.



**Anthropology 247. Social Movements, Globalization, and the State**

Catalog Number: 4940 Enrollment: Limited to 20.

*William F. Fisher*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

New social movement theories have had to recognize the increasingly extensive processes of globalization which are rapidly transforming local lives. This course explores the impact of globalization on the interrelationships among the state, social movements, and transnational alliances of movements and nongovernmental organizations. Cases will be drawn from Latin America and Asia.

*Note:* Expected to be omitted in 2000–01.

**Anthropology 248. Deep China: What Medical Anthropology and Psychiatry Contribute to the Study of China Today**

Catalog Number: 7442

*Arthur Kleinman*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

What do accounts of depression, suicide, substance abuse, sexually transmitted diseases, starvation and the personal and family trauma of political violence teach us about China and the Chinese over the last few decades? Readings are drawn from ethnographies, psychiatric research, biographies, and works of fiction to examine the effects of societal transformation on moral, psychological, and interpersonal processes.

*Note:* Open to undergraduates with permission of instructor.

**[Anthropology 249. Paleolithic of the Old World]**

Catalog Number: 4454

*Ofer Bar-Yosef*

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

Discusses selected topics of the Paleolithic cultural record of the Old World. Debates issues such as “out of Africa” by *Homo erectus* and modern humans, the colonization of Eurasia, the chronology of Neanderthals and modern humans as based on radiometric techniques, the transition to the Upper Paleolithic, and foraging strategies of past hunter-gatherers, including the use of stone tool manufacturing techniques for identifying past populations.

*Note:* Expected to be given in 2001–02. Open to undergraduates.

**Anthropology 250. Local Biologies: Perspectives on the Interaction Between Culture and Biology**

Catalog Number: 8267

*Arthur Kleinman*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Reviews the variety of anthropological and other perspectives on the interactions between culture and biology. Topics include mind-brain-society interaction in pain; comparative cross-cultural studies of menopause; the sociosomatics of depression; the new genetics and eugenics; research on stress and trauma; indigenous non-western constructions on the body; history of psychosomatic research.

*Note:* Open to advanced undergraduates with permission of the instructor.



**\*Anthropology 251. The Indus Civilization of Asia**

Catalog Number: 0856

*Richard H. Meadow and C. C. Lamberg-Karlovsky*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Seminar focuses on the archaeological evidence for the Indus or Harappan Civilization (ca. 2500-2000 BC). Includes discussion of antecedent and successor cultural manifestations in Pakistan and northwestern India as well as of the archaeology of immediately surrounding regions: Central Asia and Afghanistan, eastern Iran and Balochistan, and western India.

**[Anthropology 252 (formerly Anthropology 145). Mesoamerican Writing Systems: Seminar]**

Catalog Number: 3684

*David S. Stuart*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the pre-Hispanic literary traditions of several Mesoamerican cultures, including the Zapotec, Maya, and Aztec, and explores how historical and religious texts aid in understanding their nature and development. Emphasizes recent advances in the decipherment and interpretation of ancient Maya inscriptions, providing a basic reading knowledge of the script through exercises and case studies. Broader issues addressed include the social and political contexts of writing systems and the uses and limits of textual data in archaeological interpretation.

*Note:* Expected to be given in 2000–01.

**[Anthropology 253. Theory in Medical and Psychiatric Anthropology: Culture, Science, and the Body]**

Catalog Number: 3440

*Byron J. Good (Medical School)*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Reviews theoretical debates in medical and psychiatric anthropology, outlining a position at the interface of interpretive and critical perspectives. Special attention given to cultural studies of the biosciences and biomedicine and to recent critical and phenomenological accounts of the body.

*Note:* Expected to be given in 2001–02.

**Anthropology 254. Memory Practices**

Catalog Number: 5354

*Jennifer Cole*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

The recent explosion of literature on 'memory' indicates the appropriation of what was once a psychological concept into the domain of anthropology, history, critical theory and cultural studies. Course studies the discourse on memory in contemporary human sciences by examining the social, psychological and cultural practices through which memories are suppressed, incited and sustained.

**[Anthropology 255. Ethnographic Writing]**

Catalog Number: 3111

*Jennifer Cole*



*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

This course is designed for people who have recently returned from the field and are engaged in the mysterious process of turning anthropological field notes into dissertations. The first few sessions will be devoted to the critical reading of ethnographies, during which we will analyze select pieces of writing for argument, voice, writing style, etc., while the bulk of the course will be devoted to the presentation and critique of the work in progress.

*Note:* Expected to be given in 2001–02.

**[Anthropology 256. Culture, Power and Subjectivity](#)**

Catalog Number: 3991

*Jennifer Cole*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines the relationship between culture and power in a variety of different ethnographic settings, using both theoretical and ethnographic texts. Questions we will consider include how beliefs and perceptions organize the production and distribution of power, how different regimes of power construct subjectivity and how anthropologists should conceptualize subjectivity, and how certain political and economic institutions and practices shape cultural practices.

**[Anthropology 259. Culture, Politics, and Media]**

Catalog Number: 8797 Enrollment: Limited to graduate students. No auditors.

*Kay B. Warren*

*Half course (fall term). Tu., 7–9 p.m. EXAM GROUP: 18*

Examines the shifting meanings of “the political” in the post-Cold War international order. Topics include realist representation in film and ethnography, social movements, human rights, and national security and development discourses. Theoretical and methodological issues in studying multiculturalism in politicized situations.

*Note:* Expected to be given in 2000–01.

**[Anthropology 260. Reading Latin American Ethnography]**

Catalog Number: 8928 Enrollment: Limited to graduate students. No auditors.

*Kay B. Warren*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

A survey of ethnographic experiments to highlight representational dilemmas in research and writing on Latin America. Theoretical and methodological issues raised by post-Marxism, postmodernism, and cultural studies debates in the U.S. and Latin America; indigenous anthropology; transculturalism and borderlands; and the use and abuse of ethnographic classics.

*Note:* Expected to be given in 2000–01.

**[Anthropology 262. Kinship Practice](#)**

Catalog Number: 5896

*James L. Watson*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Research seminar focusing on the practice of kinship in everyday life, with emphasis on methodology and fieldwork. Students write papers on topics relating to their future research. Seminar discussions include: single-parenthood, family-limitation campaigns, property transfer and heirship, marriage and diaspora formation, global culture and the practice of family life.



### **Anthropology 263. Transnationalism, Globalism, and Local Culture**

Catalog Number: 5127

*James L. Watson*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Examines recent theories of transnationalism and globalism, with emphasis on popular culture (music, TV, style, entertainment, food systems, etc.). Special attention is devoted to debates regarding cultural imperialism and the effects of transnational corporations on “local” cultures. Students are expected to work on individual projects, participate in joint discussions, and help develop new methodologies for the analysis of transnational phenomena.

### **[Anthropology 264 (formerly Social Analysis 48). Anthropology and the Uses of History]**

Catalog Number: 9103

*Michael Herzfeld*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Examines how people’s ideas about history are created and used for various political and social ends, paying particular attention to the role of nationalism and to the kinds of history people create in opposition to state power. A central concern is to emphasize the existence of local points of view that ordinarily escape the attention of “official” historians. The major geographical focus is on Europe; gender, political affiliation, and social position are examined for their effect on people’s interpretations and use of the past.

*Note:* Expected to be given in 2001–02.

### **Anthropology 265. Latin America in Anthropological Perspective**

Catalog Number: 8818

*Jennifer Schirmer*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*

Through close readings of the ethnographic literature and anthropological analysis, this course will explore the cultural, social and institutional practices that underlie the changes that have been central to the formation of contemporary Latin America.

### **Anthropology 266ar. Materials in Ancient Societies: Metals**

Catalog Number: 5945

*Nikolaas J. van der Merwe*

*Half course (fall term). To Be Arranged.*

Principles of physical metallurgy; interpretation of metallic microstructures; chemical analysis of metals, alloys, smelting of metallic ores; fabrication of metal artifacts. Emphasis on archaeological and art historical case studies utilizing methodologies from archaeology, ethnography, ethnohistory, and materials science.

*Note:* CMRAE course topics change each year. Sessions held in CMRAE Graduate Lab, MIT 20B-012. This course will begin on Harvard’s academic schedule: First meeting on September 21. Course continues spring term as Anthropology 266br.

### **[Anthropology 270. Advanced Studies in Maya Hieroglyphs and Iconography]**

Catalog Number: 6741

*David S. Stuart*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*



Further examines the written documents and iconography of Classical Maya, through advanced reading and analysis of hieroglyphic texts. Readings and discussion will focus on ritual texts and their use in the interpretation of Maya religious iconography.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A basic familiarity with the Maya hieroglyphic script is necessary (through Anthropology 252 or equivalent experience).

**[Anthropology 272. Medical Anthropology and Global Social Change]**

Catalog Number: 4417

*Arthur Kleinman*

*Half course (fall term). W., 11–1. EXAM GROUP: 4, 5*

Advanced level review of medical anthropology that examines recent theories of global transformations in political processes, economics and culture and their implications for studies of the body, disease processes, illness experiences, therapeutic practices, and medical professions. Critical study of ethnographies, social theories, and methodological innovations. Comparison with cultural studies, social history, narratives, social epidemiology.

*Note:* Expected to be given in 2000–01. Open to advanced undergraduates with permission of the instructor.

**Anthropology 273. Egypt - Mesopotamia - The Indus Valley**

Catalog Number: 0877

*C. C. Lamberg-Karlovsky*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

This course will examine the economic and political interaction that brought the Bronze Age Civilizations of the ancient Near East into contact. The Mesopotamian, the Gulf, Central Asian, Iranian Plateau, Levant, Egypt, and the Indus Valley will all be considered in relation to core-periphery concepts. Emphasis will be on models of trade and exchange that united these cores of cultural complexity into an interacting whole.

**Anthropology 274. Sovereignty, Ethnicity, and Pluralism**

Catalog Number: 0688

*Nur Yalman*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Examines the political dimensions of cultural pluralism: the questions of legitimacy, nation building, autonomy, and revolution are considered. Western theory and Asian experience: the use of myth, history, and religion with special reference to South and West Asia (other Asian regions may be included).

**[Anthropology 276. New Ethnographies in the Anthropology of Social Experience]**

Catalog Number: 5029

*Arthur Kleinman*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

New ethnographies of social experience and subjectivity are remaking theory and scholarship. Students critically examine studies of illness, violence, and cultural responses to other forms of human problems as well as other human conditions. Emphasis is on the methodology and style of writing experience-oriented ethnographies as well as on studies of changes in subjectivity in



times of social transformation, and the contribution they make to social theory, moral theory, and policy.

*Note:* Expected to be given in 2002–03. May be open to advanced undergraduates.

**[Anthropology 277. Problems in the Analysis of Social Change and Development]**

Catalog Number: 8724

*Pauline E. Peters*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines development as theory, discourse, and programs of social change; considers the positions on under-development, neo-colonialism, dominating knowledge, and anti-development; explores resistance and the reappropriation of development in a range of locales; discusses the role of anthropology.

*Note:* Expected to be given in 2000–01.

**[Anthropology 278 (formerly Anthropology 183). The Charisma of Saints, and the Cults of Relics, Amulets, Images, and Shrines]**

Catalog Number: 3340

*Stanley J. Tambiah*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Examination of some Christian, Buddhist, and Islamic traditions with regard to their conceptions of sainthood, and of the above-mentioned cults associated with saints, both living and dead. Comparison focuses on both convergences and differences.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3222.

**[Anthropology 280. Culture]**

Catalog Number: 1114

*Mary M. Steedly*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

“Culture” is one of anthropology’s key epistemological concepts, yet anthropologists are increasingly hesitant to speak of it. This course considers the history and development of the idea of culture, and asks whether it can still be considered a useful concept. Readings cover a range of disciplines but emphasize sociocultural anthropology.

*Note:* Expected to be given in 2001–02.

**[Anthropology 294. Geoarchaeology]**

Catalog Number: 6875

*Carole A. Mandryk*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Geoarchaeology is the application of earth science methods and concepts to archaeological research. Aspects of mineralogy, sedimentology; stratigraphy; and pedology contribute to documentation and analysis of site-formation processes as well as the integration of paleomorphologic and biological information for the environmental reconstruction of the landscape.

*Note:* Expected to be given in 2000–01.

**\*Anthropology 295ar. Laboratory Methods in Evolutionary Genetics**

Catalog Number: 7934 Enrollment: Limited to graduate students and undergraduates conducting



senior thesis research.

*Maryellen Ruvolo*

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

**\*Anthropology 295br. Laboratory Methods in Evolutionary Genetics**

Catalog Number: 6468 Enrollment: Limited to graduate students and undergraduates conducting senior thesis research.

*Maryellen Ruvolo*

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

**[Anthropology 296r. Chinese Social Anthropology: Seminar]**

Catalog Number: 4633 Enrollment: Limited to graduate students.

*James L. Watson*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

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. Possible topics: religion and ritual systems; social stratification; food and the political economy of eating, kinship, and the state; the construction of a unified culture. Topic for 1997–98 was “Changing Kinship and Family Organization.”

*Note:* Expected to be given in 2000–01.

***Graduate Courses of Reading and Research***

**\*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 301. Reading for General Examination**

Catalog Number: 5689

*Members of the Department*

Individual reading in preparation for the General Examination for the Ph.D. degree.

*Note:* Restricted to candidates for the Ph.D. degree and ordinarily to those who have completed at least one year in residence.

**Anthropology 302. Current Issues in Biological Anthropology**

Catalog Number: 9373

*David Pilbeam 7224, Richard W. Wrangham 2349, and members of the Department*

*Half course (fall term). Tu., 12–1:30.*

Weekly seminars in biological anthropology.

**\*Anthropology 311. Methods and Theory in Archaeology**

Catalog Number: 5440

*Ofer Bar-Yosef 1887, William L. Fash 1512, C. C. Lamberg-Karlovsky 2387, Carole A. Mandryk 1037, Richard H. Meadow 1572, and Nikolaas J. van der Merwe 1623*



**\*Anthropology 320. Advanced Physical Anthropology: Laboratory and Theses**

Catalog Number: 2092

*John C. Barry 1892, Irvn DeVore 1041 (on leave spring term), Peter T. Ellison 7413, Cheryl D. Knott 3717, Frank W. Marlowe 757, David Pilbeam 7224, Maryellen Ruvolo 2512, and Richard W. Wrangham 2349*

**\*Anthropology 323. Old World Archaeology (Europe, Asia, and Africa)**

Catalog Number: 3463

*Ofer Bar-Yosef 1887, C. C. Lamberg-Karlovsky 2387, Richard H. Meadow 1572, and Nikolaas J. van der Merwe 1623*

**\*Anthropology 324. Asiatic Archaeology and Ethnography**

Catalog Number: 5398

*C. C. Lamberg-Karlovsky 2387, Lawrence E. Stager 1468, Stanley J. Tambiah 4692 (on leave 1999-00), and Nur Yalman 3780*

**\*Anthropology 327. Scientific Archaeology**

Catalog Number: 0284

*Richard H. Meadow 1572 and Nikolaas J. van der Merwe 1623*

**\*Anthropology 329. 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 330. Supervised Field Work in Anthropology**

Catalog Number: 5683

*Members of the Department*

*Half course (fall term; repeated spring term). Lectures, conferences, field and laboratory work. Daily, at the pleasure of the instructor.*

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.

*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 340. Reading and Research**

Catalog Number: 6699

*Jennifer Cole 2390, Irvn DeVore 1041 (on leave spring term), Peter T. Ellison 7413, William F. Fisher 3323 (on leave fall term), Byron J. Good (Medical School) 7648, Michael Herzfeld 3122 (on leave 1999-00), Arthur Kleinman 7473, Cheryl D. Knott 3717, Frank W. Marlowe 757, J. Lorand Matory 3098, David H. P. Maybury-Lewis 2391, Sally F. Moore 7225, Pauline E. Peters 2911, David Pilbeam 7224, Maryellen Ruvolo 2512, Mary M. Steedly 2783 (on leave spring term), Stanley J. Tambiah 4692 (on leave 1999-00), Kay B. Warren 2388 (on leave 1999-00), James L. Watson 2172, Rubie S. Watson 3326, Richard W. Wrangham 2349, Nur Yalman 3780, and Nikolaas J. van der Merwe 1623*



**\*Anthropology 351. Direction of Doctoral Dissertations**

Catalog Number: 1864

*Members of the Department*

*Note:* Consult the appropriate member of the Department.

**\*Anthropology 352. Dissertation Writing in Archaeology: Seminar**

Catalog Number: 8373

*Nikolaas J. van der Merwe 1623, Richard H. Meadow 1572 and members of the Department*

For Archaeology graduate students writing their dissertations. Students may present and discuss sections of their work in a group setting guided by a member of the faculty.

## Applied Mathematics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Division of Engineering and Applied Sciences Offering Instruction in 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

Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science

Efthimios Kaxiras, Gordon McKay Professor of Applied Physics and Professor of Physics

Richard E. Kronauer, Gordon McKay Professor of Mechanical Engineering

Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences (*Dean of the Division of Engineering and Applied Sciences*)

Allan R. Robinson, Gordon McKay Professor of Geophysical Fluid Dynamics

Irvin C. Schick, Lecturer on Engineering Sciences

Howard A. Stone, Gordon McKay Professor of Chemical Engineering and Applied Mechanics

Leslie G. Valiant, Gordon McKay Professor of Computer Science and Applied Mathematics

Tai T. Wu, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)

#### *Other Faculty Offering Instruction in Applied Mathematics*

Jeremy Bloxham, Professor of Geophysics

Jeroen Tromp, Professor of Geophysics

The Division of Engineering and Applied Sciences offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and



Engineering Sciences. Recommended curricula may be obtained from the Academic Office, Pierce Hall 212b. 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 212b. 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 Jeroen Tromp*

*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.

*Prerequisite:* Mathematics 1b or equivalent.

**Applied Mathematics 21b. Mathematical Methods in the Sciences**

Catalog Number: 5074

*Jeroen Tromp and Jeremy Bloxham*

*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.*

Guided reading and research.

*Note:* Normally may not be taken for more than two terms; may be counted for concentration in Applied Mathematics if taken for graded credit. May be taken as a half course in either term.

Applicants should consult their faculty advisers for further information and file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 212b.

***For Undergraduates and Graduates***



### Applied Mathematics 105a. Complex and Fourier Analysis

Catalog Number: 7732

*Efthimios Kaxiras*

*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

*Howard A. Stone*

*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

*Irvin C. Schick*

*Half course (fall term). Tu., Th., 4:30–6. EXAM GROUP: 18*

Introduction to abstract algebra and its applications. Theoretical topics in algebra covered include sets, lattices, groups, rings, fields, vector spaces over general fields. Applications to coding/encryption, radar/acoustics, logic, switching circuits, methods of enumeration, symmetries, residue arithmetic, fast signal processing algorithms.

*Note:* Expected to be omitted in 2000–01.

### Applied Mathematics 107. Graph Theory and Combinatorics

Catalog Number: 6411

*Leslie G. Valiant*

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

*Donald G. M. Anderson*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Elementary numerical methods and their computer implementation: linear and nonlinear



equations; interpolation, differentiation and quadrature; ordinary differential equation initial and boundary value problems.

*Note:* Expected to be given in 2000–01. Offered in alternate years.

*Prerequisite:* Applied Mathematics 21a and 21b, or Mathematics 21a and 21b; Computer Science 50, or equivalent.

### **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 2000–01. Offered in alternate years.

*Prerequisite:* Applied Mathematics 21b, or Mathematics 21b.

### **[Applied Mathematics 147 (formerly Engineering Sciences 147). Nonlinear Dynamic Systems]**

Catalog Number: 7708

*Richard E. Kronauer*

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

A study of behaviors that characterize nonlinear ordinary differential equations: self-sustained oscillations, strange attractors, chaos. System response to pulsatile and periodic stimuli; iterated mapping and period doubling. Averaging methods. Mutual entrainment of oscillators. Applications are made to electrical, mechanical, and chemical systems and to biological rhythms.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Calculus to the level of Applied Mathematics 21b or Mathematics 21b.

*Primarily for Graduates*

### **Applied Mathematics 201. Complex Function Theory with Applications**

Catalog Number: 3241

*Tai T. Wu*

*Half course (fall term). M., W., F., at 9. EXAM GROUP: 2*

Concise review of complex function theory: foundations; multiple-valued functions; analytic continuation; contour integration. Complex analysis representations of special functions.

Asymptotic approximations and expansions; method of steepest descent; Fourier and Laplace transforms.

*Prerequisite:* Applied Mathematics 105a,b or equivalent.

### **[Applied Mathematics 202. Partial Differential and Integral Equations]**

Catalog Number: 6559

*Donald G. M. Anderson*

*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, and related topics: eigenfunction expansions, Green functions, integral



equations, variational calculus, transform techniques, perturbation methods, characteristics.

*Note:* Expected to be given in 2000–01. Offered in alternate years.

*Prerequisite:* Applied Mathematics 201, or equivalent.

### **[Applied Mathematics 203. Topics in Applied Mathematics]**

Catalog Number: 6336

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

Selected mathematical methods; for example, asymptotic analysis, WKB theory, multiscale analysis, simple dynamical systems, solitons, stochastic processes, singular integral equations, renormalization group techniques.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Applied Mathematics 201 or equivalent.

### **[Applied Mathematics 205. Scientific Computing]**

Catalog Number: 1370

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

Computational methods at a sophisticated analytic level. Practical exercises emphasized. Linear algebra; polynomial and rational function extrapolation; Chebyshev methods; special functions; nonlinear root finding; one- and multidimensional extremization; eigensystems; Fourier transform methods; linear and nonlinear model fitting; adaptive methods for differential equations; stochastic methods for integration and optimization of multidimensional functions.

*Note:* Expected to be given in 2000–01. Does not presume previous course in computing.

*Prerequisite:* Applied Mathematics 105b, which may be taken concurrently, and ability to program in either Fortran, Pascal, or C.

### **[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 2000–01. 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 2000–01. Offered in alternate years.



*Prerequisite:* Applied Mathematics 105a and 105b; Applied Mathematics 120, or equivalent, 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 2000–01. Offered in alternate years.

*Prerequisite:* Applied Mathematics 211, or equivalent; Applied Mathematics 202 and 210 would be helpful, but are not required.

### **Applied Mathematics 299r. Special Topics in Applied Mathematics**

Catalog Number: 5798

*Venkatesh Narayanamurti*

*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 A.B./S.M. candidates only. Students must arrange such work with a member of the Division. This course is ordinarily taken with the approval of the Committee on Higher Degrees in certain cases when a letter grade is required. Applicants should file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 212b.

### ***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*

#### **\*Applied Mathematics 321,322. Biological Applications of Mathematics and Automatic Computers**

Catalog Number: 7615,4243

*William H. Bossert 1049*

#### **\*Applied Mathematics 333,334. Dynamics of the Ocean; Interdisciplinary Modeling; Geophysical Fluid Dynamics**



Catalog Number: 4947,4948  
*Allan R. Robinson 2133*

## 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  
Henry Ehrenreich, Clowes Professor of Science  
Daniel S. Fisher, Professor of Physics and Professor of Applied Physics  
Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics  
Lene V. Hau, Gordon McKay Professor of Applied Physics and Professor of Physics  
R. Victor Jones, Robert L. Wallace Professor of Applied Physics  
Efthimios Kaxiras, Gordon McKay Professor of Applied Physics and Professor of Physics  
Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry  
Paul C. Martin, John H. Van Vleck Professor of Pure and Applied Physics  
Eric Mazur, Harvard College Professor, Gordon McKay Professor of Applied Physics and Professor of Physics  
Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences (*Dean of the Division of Engineering and Applied Sciences*)  
David R. Nelson, Mallinckrodt Professor of Physics and Professor of Applied Physics ( )  
Alfred A. Pandiscio, Senior Lecturer on Electronics on the Gordon McKay Endowment  
William Paul, Mallinckrodt Professor of Applied Physics and Professor of Physics  
Peter S. Pershan, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
James R. Rice, Gordon McKay Professor of Engineering Sciences and Geophysics (*on leave fall term*)  
Allan R. Robinson, Gordon McKay Professor of Geophysical Fluid Dynamics  
Frans A. Spaepen, Gordon McKay Professor of Applied Physics  
Howard A. Stone, Gordon McKay Professor of Chemical Engineering and Applied Mechanics  
Patrick Thaddeus, Professor of Astronomy and Applied Physics (*on leave 1999-00*)  
Michael Tinkham, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics  
David A. Weitz, Gordon McKay Professor of Applied Physics and Professor of Physics  
Robert M. Westervelt, Gordon McKay Professor of Applied Physics and Professor 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***

Leonardo Golubovic, Visiting Associate Professor of Physics (*West Virginia University*)

The Division of Engineering and Applied Sciences offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Recommended curricula may be obtained from the Academic Office, Pierce Hall 212b. Division faculty also offer several courses in the section entitled General Education Electives.

### ***For Undergraduates and Graduates***

#### **[Applied Physics 195. Introduction to Solid State Physics]**

Catalog Number: 1842

*William Paul*

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

Fundamental physical properties of crystalline solids discussed in terms of the basic principles of classical and quantum physics. Crystal structure, x-ray determination of structure, lattice vibrations, specific heat, energy band theory of metals and semiconductors and insulators, electrical transport in metals, semiconductors, and superconductors, magnetic and optical properties of solids.

*Note:* Expected to be given in 2000–01. 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 Physics 195 when this course is bracketed.

#### **[Applied Physics 197. Computational Physics Methods and Applications]**

Catalog Number: 4655

*Efthimios Kaxiras*

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

Develops computational approaches for understanding physical systems, and illustrates the applications of such approaches to specific problems. Methods to be covered include: numerical differentiation and integration, solution of ordinary and partial differential equations, eigensystems, and stochastic approaches like Monte Carlo and genetic algorithms for statistical sampling and optimization of multi-variable systems. Emphasis on developing the ability to handle both simple and complex physical systems which are analytically intractable. Examples will be drawn from several diverse fields of physics.

*Note:* Expected to be given in 2000–01. Familiarity with a programming language (like Fortran or C) is assumed. It is suggested that students may wish to take Physics 197 when this course is bracketed.

*Prerequisite:* Background in mathematics at the level of Applied Mathematics 105b, which may be taken concurrently.

### ***Primarily for Graduates***



### **Applied Physics 216 (formerly Applied Physics 216r). Optical Physics and Quantum Electronics**

Catalog Number: 4691

*R. Victor Jones*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Develops the theoretical background needed to understand developments in optical research and photonic technology. Topics include wave propagation in anisotropic media, glass fibers, planar dielectrics, and random media; interaction of light with matter; quantization of the radiation field; laser physics; photon statistics and noise; nonlinear optics; optical modulation and switching; acousto-optics; parametric devices; optical solitons; photon migration.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Familiarity with basic electromagnetic theory and quantum mechanics.

### **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

*Leonardo Golubovic (West Virginia University)*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Ensembles and equilibrium in classical and quantum statistical mechanics, derivation of the laws of thermodynamics and of fluctuations, response to static and time-dependent perturbations, relaxation to equilibrium. Applications chosen from the degenerate electron gas, Bose-Einstein condensation and superfluidity, magnetism, phase transitions, and critical points.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Ordinarily, Physics 143a,b and Physics 181 or Engineering Sciences 181.

### **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 demonstrations. EXAM GROUP: 4*

Kinetic principles underlying atomic motions, transformations, and other atomic transport processes in condensed phases. Applies these and the principles of thermodynamics to the interpretation of diffusion, continuous transformations, nucleation, growth, coarsening, and other kinetic phenomena in bulk, thin film, and surface states. Fundamental principles are emphasized which are broadly applicable to a wide range of current research problems in atomic transport and in materials synthesis and processing. Selected applications will be discussed as time permits.

*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, creep by dislocation motion, creep by diffusion of single ions, twinning, and fracture. The results are applied to several case studies using deformation mechanism maps.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Knowledge of thermodynamics and elements of crystal structure.

### \*Applied Physics 294hfr. Materials Science Seminar

Catalog Number: 4924

*Michael J. Aziz and Frans A. Spaepen*

*Half course (throughout the year). Th., 1:30–2:30. EXAM GROUP: 15, 16*

Special topics in materials science.

*Prerequisite:* Check with one of the instructors.

### Applied Physics 295a. Introduction to Quantum Theory of Solids

Catalog Number: 6937

*Jene A. Golovchenko*

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

Electrical, thermal, magnetic and optical properties of solids will be discussed and treated based on statistical mechanics and quantum mechanical models using mostly single electron approximations. Metals, semiconductors, and insulators will be covered. The connections between theory, experiment and applications will be stressed throughout.

*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

*Daniel S. Fisher*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Theoretical description of solids focussing on the effects of interactions between electrons, including dielectric response, Fermi liquid theory, magnetism, superconductivity and quantum Hall effect.

*Prerequisite:* Applied Physics 295a, quantum mechanics, or permission of instructor.

### **[Applied Physics 296r. Superconductivity]**

Catalog Number: 0219

*Michael Tinkham*

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

Introduction to theoretical and applied aspects of superconductivity. Topics include BCS microscopic theory, Ginzburg-Landau phenomenological theory, type I and II superconductors, Josephson effect and devices, fluctuation effects, the vortex-unbinding transition in 2-D systems, flux motion and dissipation in high-temperature superconductors, macroscopic quantum



tunneling, the number-phase uncertainty relation, and the single-electron tunneling transistor.

*Note:* Expected to be given in 2000–01.

### **[Applied Physics 297r. Computational Approaches in Many-Body Physics]**

Catalog Number: 8866

*Efthimios Kaxiras*

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

Develops computational approaches to classical and quantum many-body problems including iterative and stochastic methods. Emphasizes understanding the behavior of complex systems through large-scale simulation. Topics: Monte-Carlo calculation for classical and quantum systems, molecular dynamics, simulated annealing, iterative diagonalization.

*Note:* Expected to be given in 2000–01. Applied Mathematics 205 desirable but not required.

*Prerequisite:* Knowledge of a programming language (Fortran or C).

### **Applied Physics 298r. Materials Chemistry and Physics: Seminar**

Catalog Number: 7500

*Efthimios Kaxiras, Michael J. Aziz, Frans A. Spaepen, and Howard A. Stone*

*Half course (spring term). M., W., 12–1:30. EXAM GROUP: 5, 6*

Each year materials-related topics are chosen from the following: Optical and Electronic Properties; Mechanical Properties; Surfaces and Interfaces; Nanoscale Phenomena; Organic Materials; Synthesis and Fabrication; Characterization Techniques; Solid State Devices and Structural Applications. Each chosen topic is discussed in about five didactic lectures. A paper and oral presentation on two of the principal topics under discussion will be assigned.

*Note:* Expected to be omitted in 2000–01. 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. Suitable for graduate students with undergraduate concentrations in chemistry, engineering, or physics having present or potential research interests in this field.

### **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 A.B./S.M. candidates only. Students must arrange such work with a member of the Division. This course is ordinarily taken with the approval of the Committee on Higher Degrees in certain cases when a letter grade is required. Applicants should file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 212b.

### ***Graduate Courses of Reading and Research***

Reading courses are odd-numbered; research courses are even-numbered.

**\*Applied Physics 327,328. Optical and Optoelectronic Information Systems and Technology**



Catalog Number: 8209,4795

*R. Victor Jones 1107*

**\*Applied Physics 329,330. Electronic Circuits**

Catalog Number: 3199,5428

*Alfred A. Pandiscio 2601*

**\*Applied Physics 331,332. Experimental Condensed Matter Physics**

Catalog Number: 0467,1560

*Robert M. Westervelt 6148*

**\*Applied Physics 333,334. Condensed Matter and X-Ray Physics**

Catalog Number: 1033,6126

*Jene A. Golovchenko 1986*

**\*Applied Physics 335,336. Theoretical Study of the Structure and Electronic Properties of Solids and Surfaces**

Catalog Number: 7902,7903

*Efthimios Kaxiras 3050*

**\*Applied Physics 337,338. Growth and Properties of Nanostructures; Development and Application of New Probe Microscopies; Biophysics**

Catalog Number: 3050,3051

*Charles M. Lieber 3102*

**\*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 (on leave 1999-00)*

**\*Applied Physics 347,348. Solid Mechanics in Seismology and Materials Physics**

Catalog Number: 4033,3514

*James R. Rice 7270 (on leave fall term)*

**\*Applied Physics 351,352. Statistical and Condensed Matter Theory**

Catalog Number: 3992,3993

*Paul C. Martin 2103*

**\*Applied Physics 353,354. Theoretical Statistical Physics**

Catalog Number: 5186,5941

*Daniel S. Fisher 2600*



**\*Applied Physics 359,360. Quantum Optics and Molecular Physics**

Catalog Number: 5760,3525

*Eric Mazur 7952*

**\*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 (on leave spring term)*

**\*Applied Physics 375,376. Superconductivity and Mesoscopic Physics**

Catalog Number: 8203,4912

*Michael Tinkham 2131*

**\*Applied Physics 377,378. Crystalline and Amorphous Semiconductors**

Catalog Number: 3346,5572

*William Paul 1097*

**\*Applied Physics 381,382. Special Topics in Fluid Dynamics**

Catalog Number: 4554,2668

*Howard A. Stone 2073*

**\*Applied Physics 385,386. Dynamics of the Ocean; Interdisciplinary Modeling; Geophysical Fluid Dynamics**

Catalog Number: 2878,2879

*Allan R. Robinson 2133*

**\*Applied Physics 389,390. Electronic Theory of Condensed Matter**

Catalog Number: 5425,1600

*Henry Ehrenreich 2411*

**\*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*

Piotr Steinkeller, Professor of Assyriology (*Chair*) (*on leave 1999-00*)

Ofer Bar-Yosef, George Grant MacCurdy and Janet G. B. MacCurdy Professor of Prehistoric Archaeology

Gloria Ferrari Pinney, Professor of Classical Archaeology and Art (*Acting Chair, 1999-00*) (*on leave spring term*)

Suzanne P. Blier, Professor of the History of Art and Architecture

Elizabeth S. Chilton, Assistant Professor of Anthropology

Kathleen M. Coleman, Professor of Latin

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

C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology

Yun Kuen Lee, Assistant Professor of Anthropology

Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages

Carole A. Mandryk, Associate Professor of Anthropology

Richard H. Meadow, Senior Lecturer on Anthropology

Lawrence E. Stager, Dorot Professor of the Archaeology of Israel

The Committee on Archaeology is a multidisciplinary group of scholars appointed to coordinate the teaching of archaeology among Harvard's departments. It is designed to advance knowledge of archaeological activity, research, fieldwork, and scientific techniques in the many and varied fields where archaeology is an established and desirable approach to past cultures and histories around the world. It sponsors seminars, lectures, and conferences on archaeology in all fields, and encourages students in the several departments to join together outside their specialties for the advancement of knowledge. It publishes a newsletter of forthcoming archaeological lectures and activities, and holds a monthly interdepartmental seminar on archaeological themes.

The courses listed below deal either directly or indirectly with the study of archaeology and will be given in 1999–2000. More detailed descriptions may be found listed under the several departments.



Literature and Arts B-10, B-21, C-14, C-61. Social Analysis 50. Freshman Seminar 63.

Anthropology 100, 200a, 209r, 266ar, 266br.

Classical Archaeology 131.

Earth and Planetary Sciences 242.

*Near Eastern Languages and Civilizations*: Ancient Near East 105, 109r, 115 (formerly NEL 195), 215r.

Religion 2348ab.

## Astronomy

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Astronomy*

Ramesh Narayan, Professor of Astronomy (*Chair*)

Eugene H. Avrett, Lecturer on Astronomy

Alexander Dalgarno, Phillips Professor of Astronomy

Thomas M. Dame, Lecturer on Astronomy

Daniel G. Fabricant, Associate of the Harvard College Observatory, Lecturer on Astronomy

Giovanni G. Fazio, Lecturer on Astronomy

Margaret J. Geller, Professor of Astronomy

Owen Gingerich, Professor of Astronomy and of the History of Science (*on leave spring term*)

Alyssa A. Goodman, Associate Professor of Astronomy

Jonathan E. Grindlay, Professor of Astronomy

Shadia R. Habbal, Lecturer on Astronomy

Lee W. Hartmann, Lecturer on Astronomy

Lars Hernquist, Professor of Astronomy

Matthew Holman, Lecturer on Astronomy

John P. Huchra, Professor of Astronomy

Scott J. Kenyon, Lecturer on Astronomy

Robert P. Kirshner, Professor of Astronomy

Christopher S. Kochanek, Lecturer on Astronomy, Associate of the Harvard College Observatory

John L. Kohl, Lecturer on Astronomy

David W. Latham, Senior Lecturer on Astronomy

Myron Lecar, Lecturer on Astronomy

Abraham Loeb, Professor of Astronomy

Jeffrey E. McClintock, Lecturer on Astronomy



James M. Moran, Professor of Astronomy  
 Philip C. Myers, Lecturer on Astronomy  
 Robert W. Noyes, Professor of Astronomy  
 William H. Parkinson, Lecturer on Astronomy  
 William H. Press, Professor of Astronomy and of Physics (*on leave 1999-00*)  
 George B. Rybicki, Professor of the Practice of Astronomy  
 Philip M. Sadler, Frances W. Wright Lecturer on Celestial Navigation  
 Dimitar D. Sasselov, Assistant Professor of Astronomy (*Head Tutor*)  
 Irwin I. Shapiro, Timken University Professor  
 Peter L. Smith, Lecturer on Astronomy  
 Simon J. Steel, Lecturer on Astronomy  
 Robert P. Stefanik, Lecturer on Astronomy  
 Patrick Thaddeus, Professor of Astronomy and Applied Physics (*on leave 1999-00*)  
 Edward Tong, Lecturer on Astronomy  
 Aadrian A. van Ballegooijen, Lecturer on Astronomy  
 Ronald Lee Walsworth, Lecturer on Astronomy  
 Martin J. White, Assistant Professor of Astronomy, Associate of the Edwin O Reischauer  
 Institute of Japanese Studies

Astronomy 1, Science A-17, A-35, A-36, B-17, and Astronomy 14, 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. While a background in high school science is helpful, none of these courses presumes a knowledge of algebra more extensive than that used in a high school physics course. Astronomy 97hf (the Introductory Tutorial) is open to sophomores and qualified freshmen who 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, 50, 145, 150, 191, and 192 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 and 21b (or Mathematics 22a and 22b) at the earliest opportunity.

***Primarily for Undergraduates***

**[Astronomy 1. The Astronomical Universe](#)**

Catalog Number: 4287

*Dimitar D. Sasselov and Simon J. Steel*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

A general introductory course for nonscience concentrators. Topics include observational astronomy, the nature of the Sun and stars, exploration of the planets, structure of the Milky Way galaxy, evolution of the universe from a hot Big Bang, and current theories of quasars and black holes. The course is primarily descriptive. Where possible, basic principles of physics are



explained and then applied to astronomical phenomena, but no mathematics beyond elementary algebra is used.

### [Astronomy 2. Celestial Navigation](#)

Catalog Number: 2179 Enrollment: Limited to 30.

*Philip M. Sadler and assistants*

*Half course (spring term). Tu., 11:30–1:30, 7–10 p.m. EXAM GROUP: 13, 14, 15*

The dance of the Sun, Moon, planets, and stars across the sky allows the navigator to find his or her position anywhere on Earth. Celestial and terrestrial measurements are reduced with a watch and nautical charts and tables to create accurate and safe navigation for boats and airplanes. Students learn to use a sextant and compass, and build an instrument for measuring angles and a celestial sphere. Through personal observations and the use of a planetarium, students become familiar with a variety of celestial motions. Coastwise navigation, piloting, currents, tides, and electronic aids to navigation are also studied. Historical artifacts (instruments, maps, books, captains' logs) are used to explore the development of the field.

*Note:* Minimum lecturing; predominantly practical laboratory activities with individual attention from teaching staff. Mathematics beyond geometry and trigonometry not required. Some familiarity with sailing and/or astronomy is helpful.

### [Astronomy 14. The Universe and Everything](#)

Catalog Number: 1383

*Margaret J. Geller*

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

A selection of topics on the forefront of astrophysical research. Lectures and problem sets emphasize the application of fundamental physical laws to understand complex systems in the universe. We learn about the impact of modern technology on our ability to obtain answers to some age-old questions (as well as new ones!) about the universe. Topics include gravity according to Newton and Einstein, the formation, evolution, and demise (explosive and otherwise) of stars, black holes, the nature of galaxies and quasars, the use of galaxies to map the universe, and the evolution of the universe itself.

*Note:* Mathematics beyond algebra and trigonometry is not required. A grasp of elementary physics concepts is helpful but not assumed. Satisfies Science A requirement.

### [Astronomy 45. Introduction to Astrophysics](#)

Catalog Number: 5375

*Alexander Dalgarno*

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

An introduction to the concepts and methods of astrophysics, including a discussion of astronomical measurements and stellar magnitudes, and a systematic account of the astrophysical nature of radiation, planetary motion, tidal interactions, binary stars, galactic dynamics and cosmology.

*Prerequisite:* Physics 15a,b (Physics 15b may be taken concurrently).

### **[Astronomy 50. Planetary System Astronomy]**

Catalog Number: 1346

*Matthew Holman and Robert W. Noyes*



*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Uses our solar system as an example to understand the origin and evolution of planetary systems in general. Emphasis on how physical patterns inherent in our solar system provide clues to the conditions and mechanisms that give rise to the formation of planets orbiting the Sun or similar stars, and govern their evolution. Topics include the formation and evolution of the Sun, origin and evolution of solar system planets, solar magnetic activity and its influence on the Earth and planets, planetary satellites, small bodies of the solar system (comets, asteroids, and meteorites). Also included will be discussion of planets orbiting other stars, what they tell us about how solar systems (including our own) form and evolve, and the possibilities of habitable environments in other solar systems.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 11 or Physics 15 (can be taken concurrently).

### **\*Astronomy 91r. Supervised Reading and Research**

Catalog Number: 1545

*Ramesh Narayan 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

*Robert W. Noyes 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 qualified freshmen) considering the concentration or a combined concentration.

*Prerequisite:* Physics 15a,b or equivalent (can be taken concurrently).

### **\*Astronomy 98hf. Tutorial — Junior Year**

Catalog Number: 3121

*Eugene H. Avrett and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

*Note:* Normally a required course for junior concentrators in Astronomy. Open in special cases to concentrators in other physical sciences. 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.



**\*Astronomy 99. Tutorial — Senior Year**

Catalog Number: 5413

*Eugene H. Avrett and members of the Department*

*Full course. Hours to be arranged.*

*Note:* For honors candidates in Astronomy. Individually supervised reading and research leading to the honors thesis.

*Prerequisite:* Astronomy 98hf.

***Cross-listed Courses***

**Science A-17. The Astronomical Perspective**

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

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

***For Undergraduates and Graduates***

**\*Astronomy 135. Planetary System Astronomy**

Catalog Number: 4850

*Matthew Holman and Robert W. Noyes*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Uses our solar system as an example to understand the origin and evolution of planetary systems in general. Emphasis on how physical patterns inherent in our solar system provide clues to the conditions and mechanisms that give rise to the formation of planets orbiting the Sun or similar stars, and govern their evolution. 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), and solar magnetic activity and its influence on the Earth and planets. Also included will be discussion of planets orbiting other stars, what they tell us about how planetary systems (including our own) form and evolve, and the possibilities of habitable environments in other planetary systems.

*Prerequisite:* Physics 15a, Physics 15b, Physics 15c, or Physics 11a, or Physics 11b and permission of the instructor.

**Astronomy 145. Topics in Astrophysics**

Catalog Number: 0212

*Abraham Loeb and Ramesh Narayan*

*Half course (fall term). M., W., 9:30–11. EXAM GROUP: 3*

Discussion of a wide range of astrophysical systems, their physical processes, and observed characteristics. Topics include the Big Bang, the microwave background, the formation of structure in the universe, galaxy formation and evolution, star formation, energy generation in stars, white dwarfs, neutron stars and black holes.

*Prerequisite:* Physics 143a (may be taken concurrently).

**Astronomy 150 (formerly Astronomy 205). Physical Processes in Astrophysics**

Catalog Number: 8993

*George B. Rybicki*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6*



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. Introduction to fluid dynamics and shocks.

*Prerequisite:* Physics 143a (may be taken concurrently).

### [Astronomy 191. Astrophysics Laboratory](#)

Catalog Number: 3615 Enrollment: Limited to 16

*Jonathan E. Grindlay*

*Half course (spring term). F., at 2, First meeting on Monday, 2/7 at 2pm in Pratt Conference Room. EXAM GROUP: 7*

Laboratory and observational projects in astrophysics. Carried out in research facilities at the Harvard-Smithsonian Center for Astrophysics, students choose two projects from a larger group that may include measurement of the temperature of the cosmic microwave background radiation, laboratory spectroscopy of jet-cooled, gas phase molecules; observations of dense, star-forming interstellar clouds, either with the Haystack Observatory or the Very Large Array; measurement of the rotation of the Galaxy with the CFA millimeter-wave telescope; development of superconducting submillimeter detectors; spectroscopic observations of binary stars at Oak Ridge Observatory; principles of soft x-ray detectors and imaging, construction, and evaluation of hard x-ray imaging detectors and telescope systems.

*Note:* Intended primarily for concentrators in Astronomy and Astrophysics or combined concentrators with Physics. This course, with the approval of the Physics department, may also satisfy the laboratory requirement for Physics concentrators.

*Prerequisite:* Physics 15c or equivalent.

### [Astronomy 192. Astronomical Measurements](#)

Catalog Number: 4741

*John P. Huchra and Irwin I. Shapiro*

*Half course (fall term). M., W., 2:45–4:15. EXAM GROUP: 7, 8, 9*

The measurement of radiation from astronomical sources at all wavelengths and frequencies. The physics of detectors for cosmic rays, x-rays, optical, infrared, radio and gravitational radiation. Signal-to-noise and noise sources in astronomical detectors including the concept of detective quantum efficiency. Telescopes and basic instrumentation and techniques for absolute flux measurements, imaging spectroscopy, polarimetry, measurement of magnetic fields and interferometry. Astronomical statistics including parameter estimation, hypothesis testing, nonparametric techniques and statistical biases in real data sets.

*Prerequisite:* Physics 15a,b,c and Applied Mathematics 105 (or equivalents).

### *Cross-listed Courses*

**[Applied Mathematics 111. Introduction to Scientific Computing]**

**[\\*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 core courses are Astronomy 150, 204, 206, and 208, 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. Students interested in planetary atmospheres should note courses given in Earth and Planetary Sciences, especially 224. Students with a special interest in relativity should note Physics 210 and 211.

**[\*Astronomy 204. Galactic and Extragalactic Dynamics]**

Catalog Number: 6396

*George B. Rybicki*

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

Dynamics of stellar systems. Properties of orbits. The collisionless Boltzmann equation and Jean's theorem. Models for star clusters, galaxies, and clusters of galaxies. The evolution of globular clusters. Dynamical friction, tides, mergers, and cannibalism. Density wave theory of spiral structure. Formation of galaxies. Simulation of galaxy dynamics.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 151 or equivalent.

**[Astronomy 206. Stellar Physics]**

Catalog Number: 2128

*Dimitar D. Sasselov*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

The theory of stellar interiors, drawing on thermodynamics, statistical mechanics, transport processes, and elementary nuclear physics. Applications to main sequence, pre- and post-main sequence evolution, and the endpoints of stellar evolution.

*Note:* Expected to be given in 2000–01.

**[Astronomy 207. Cosmology and Extragalactic Astronomy](#)**

Catalog Number: 2446

*Lars Hernquist and Martin J. White*

*Half course (spring term). M., W., 9:30–11. EXAM GROUP: 2, 3*

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, gravitational lensing, candidates for dark matter, measurements of cosmological parameters.

**[Astronomy 208. The Physics of the Interstellar Medium]**

Catalog Number: 4842

*Alyssa A. Goodman*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 13, 14*

The Interstellar Medium [ISM] of our own and other galaxies, as well as the Intergalactic Medium will be discussed, with the greatest emphasis on the Milky Way's ISM. Various physically distinct regions will be investigated, including cold neutral gas, hot ionized gas, photon-dominated regions, high-velocity clouds, and galactic nuclei. Star-forming clouds, and supernova remnants will be addressed in detail, as will the interaction of stellar winds with the



ISM. The goal of the course will be an understanding of how to measure, understand, and predict the conditions (i.e., temperature, density, chemical composition, ionization state, magnetic field, velocity distribution) of the gas and dust in interstellar material, and to understand the role of the interstellar material in galaxies and the universe.

*Note:* Expected to be given in 2000–01.

### **Astronomy 218. Radio Astronomy**

Catalog Number: 2883

*James M. Moran and Alyssa A. Goodman*

*Half course (spring 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 the cosmic background.

*Note:* 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. EXAM GROUP: 7, 8*

Discussion of relativistic and high-energy astrophysical phenomena. Accretion disks: magnetic accretion. Compact stars: white dwarfs, neutron stars, black holes. Binary evolution. Cosmic ray and gamma-ray astronomy, observational techniques and sources, gamma-ray bursts. X-ray astronomy, detectors and telescopes. X-ray sources, accreting x-ray binaries: bursts, disk coroneae, supernova remnants, active galactic nuclei, galaxy clusters. X-ray and gamma-ray background.

*Note:* Expected to be given in 2000–01.

### **Astronomy 225. Formation of Stars and Planets**

Catalog Number: 0983

*Philip C. Myers and Lee W. Hartmann*

*Half course (fall term). Tu., Th., 10:30–12. EXAM GROUP: 12, 13*

Components and structural properties of the interstellar medium, molecular clouds and their cores, young stellar objects in isolation and in clusters, dynamical processes in star formation and circumstellar disk formation, properties of the primitive solar nebula and solar system development, extrasolar planetary systems.

### **Astronomy 259. Physics of Solar and Stellar Coronae**

Catalog Number: 5671

*Aadrian A. van Ballegooijen*

*Half course (spring term). M., W., 1:30–3. EXAM GROUP: 6, 7*

Overview of stellar coronae and winds, with emphasis on sun-like stars. Discussion of observations and theories related to the effects of magnetic fields on the structure and dynamics of stellar coronae. The photosphere and chromosphere as a lower boundary through which mass, energy, and momentum are fed into the corona. Physical processes relevant to the non-thermal heating of the solar atmosphere (by magnetohydrodynamic waves and magnetic reconnection)



and the acceleration of the solar wind. Discussion of the evolution of stellar rotation, activity, and winds in the sun and sun-like stars.

**[Astronomy 291. Topics in Modern Cosmology: Seminar]**

Catalog Number: 9351

*John P. Huchra*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 7, 8, 9*

This is an advanced graduate seminar on topics in modern cosmology and extragalactic astronomy. The seminar will meet 2-3 hours per week and discuss assigned papers and other material on such topics as large-scale structure, the Cosmic distance scale, the Cosmic microwave background, galaxy formation, large-scale flows, galaxy luminosity functions, the geometry of space, and dark matter.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

**[Applied Mathematics 205. Scientific Computing]**

**[Physics 210. General Theory of Relativity](#)**

***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

*Eugene H. Avrett 1141, Alastair G. W. Cameron 4164, Alexander Dalgarno 1157, Thomas M. Dame 2755, Daniel G. Fabricant 3711, Giovanni G. Fazio 1143, George B. Field 3836, Margaret J. Geller 4867, Owen Gingerich 1159 (on leave spring term), Alyssa A. Goodman 3348, Jonathan E. Grindlay 4593, Shadia R. Habbal 2586, Lee W. Hartmann 7420, Lars Hernquist 4250, Paul T. P. Ho 7532, Matthew Holman 1260, John P. Huchra 6271, Scott J. Kenyon 1648, Robert P. Kirshner 1071, Christopher S. Kochanek 3108, John L. Kohl 4972, David W. Latham 3716, David Layzer 1163, Myron Lecar 1026, Abraham Loeb 3349, Jeffrey E. McClintock 2108, James M. Moran 4090, Philip C. Myers 1033, Ramesh Narayan 2871, Robert W. Noyes 1651, William H. Parkinson 3065, William H. Press 4693 (on leave 1999-00), George B. Rybicki 3734, Dimitar D. Sasselov 1020, Irwin I. Shapiro 7660, Peter L. Smith 1484, Simon J. Steel 1842, Robert P. Stefanik 1003, Patrick Thaddeus 1398 (on leave 1999-00), Edward Tong 1004, Ronald Lee Walsworth 2263, Martin J. White 1351, and Aadrian A. van Ballegooijen 1919*

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.



# Biological Sciences

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Molecular and Cellular Biology*

Douglas A. Melton, Professor of Molecular and Cellular Biology (*Chair of MCB*)  
 Howard C. Berg, Professor of Molecular and Cellular Biology and Professor of Physics  
 Daniel Branton, Higgins Research Professor of Biology  
 John S. Chant, Associate Professor of Biochemistry and Molecular Biology  
 Lauraine A. Dalton, Preceptor in Molecular and Cellular Biology  
 James E. Davis, Senior Lecturer on Chemistry and Chemical Biology and on Molecular and Cellular Biology  
 John E. Dowling, Harvard College Professor and the Maria Moors Cabot Professor of Natural Sciences  
 Catherine Dulac, Assistant Professor of Molecular and Cellular Biology  
 Brian D. Dynlacht, Associate Professor of Molecular and Cellular Biology  
 Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology  
 William Techumseh Fitch, Lecturer on Biology  
 William D. Fixsen, Senior Lecturer on Molecular and Cellular Biology  
 William M. Gelbart, Professor of Molecular and Cellular Biology (*Head Tutor, Biology*)  
 Walter Gilbert, Carl M. Loeb University Professor (*on leave spring term*)  
 Guido Guidotti, Higgins Professor of Biochemistry  
 Stephen C. Harrison, Higgins Professor of Biochemistry  
 J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences (*on leave spring term*)  
 Craig P. Hunter, Assistant Professor of Molecular and Cellular Biology  
 Nancy Kleckner, Professor of Biochemistry and Molecular Biology  
 Jeremy R. Knowles, Amory Houghton Professor of Chemistry and Biochemistry and Dean of the Faculty of Arts and Sciences  
 Samuel M. Kunes, John L. Loeb Associate Professor of the Natural Sciences  
 Richard M. Losick, Maria Moors Cabot Professor of Biology  
 Robert Lue, Senior Preceptor in Molecular and Cellular Biology  
 Tom Maniatis, Thomas H. Lee Professor of Molecular and Cellular Biology  
 Andrew P. McMahon, Professor of Molecular and Cellular Biology  
 Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology  
 Matthew S. Meselson, Thomas Dudley Cabot Professor of the Natural Sciences  
 James L. Michel, Assistant Professor of Medicine (*Medical School*) (*Head Tutor, Biochemical Sciences*)  
 Venkatesh N. Murthy, Assistant Professor of Molecular and Cellular Biology (*Medical School*)  
 Robert E. Pruitt, Associate Professor of Biology (*on leave fall term*)  
 Elizabeth J. Robertson, Professor of Molecular and Cellular Biology  
 Jack L. Strominger, Higgins Professor of Biochemistry  
 James C. Wang, Mallinckrodt Professor of Biochemistry and Molecular Biology  
 Don C. Wiley, John L. Loeb Professor of Biochemistry and Biophysics, Tutor in Biochemical Sciences (*on leave fall term*)



***Associate Member of the Department of Molecular and Cellular Biology***

Stuart L. Schreiber, Morris Loeb Professor of Chemistry and Chemical Biology (*on leave 1999-00*)

***Faculty of the Department of Organismic and Evolutionary Biology***

Daniel L. Hartl, Professor of Biology (*Chair of OEB*)

Peter S. Ashton, Charles Bullard Professor of Forestry

David A. Baum, Associate Professor of Biology

Fakhri A. Bazzaz, Mallinckrodt Professor of Biology

Andrew A. Biewener, Professor of Biology

Kenneth J. Boss, Professor of Biology

Colleen M. Cavanaugh, Professor of Biology

A. W. Crompton, Fisher Professor of Natural History (*on leave fall term*)

Michael J. Donoghue, Professor of Biology

Brian D. Farrell, John L. Loeb Associate Professor of the Natural Sciences, Associate Curator in Entomology

David R. Foster, Senior Lecturer on Biology

David A. Haig, Associate Professor of Biology

James Hanken, Professor of Biology

N. Michele Holbrook, Thomas D. Cabot Associate Professor of Organismic and Evolutionary Biology

Farish A. Jenkins, Jr., Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Biology, and Professor of Anatomy in the Harvard-MIT Division of Health Sciences and Technology (*Medical School*)

Andrew H. Knoll, Professor of Biology

George Varick Lauder, Professor of Biology

Richard C. Lewontin, Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Biology

Karel F. Liem, Henry Bryant Bigelow Professor of Ichthyology

Charles R. Marshall, Professor of Biology and of Geology

James J. McCarthy, Alexander Agassiz Professor of Biological Oceanography in the Museum of Comparative Zoology

Stephen R. Palumbi, Professor of Biology

Donald H. Pfister, Asa Gray Professor of Systematic Botany (*on leave fall term*)

Naomi E. Pierce, Sidney A. and John H. Hessel Professor of Biology (*on leave fall term*)

Kerry L. Shaw, Associate Professor of Biology

Otto T. Solbrig, Bussey Professor of Biology

P. Barry Tomlinson, Edward C. Jeffrey Professor of Biology

John R. Wakeley, Assistant Professor of Biology

Robert M. Woollacott, Professor of Biology (*on leave spring term*)

***Other Faculty Offering Instruction in Biological Sciences***



William H. Bossert, David B. Arnold, Jr. Professor of Science  
 George M. Church, Professor of Genetics (*Medical School*)  
 Charles A. Czeisler, Associate Professor of Medicine (*Medical School*)  
 John M. Doyle, John L. Loeb Associate Professor of the Natural Sciences  
 Timothy F. Flannery, Visiting Professor of Australian Studies  
 Melvin J. Glimcher, Harriet M. Peabody Professor of Orthopedic Surgery (*Medical School*)  
 Stephen J. Gould, Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Geology  
 Arthur L. Lage, Associate Professor of Veterinary Medicine (*Medical School*)  
 Ralph Mitchell, Gordon McKay Professor of Applied Biology (*on leave spring term*)  
 Hidde Ploegh, Mallinkrodt Professor of Immunopathology and Professor of Pathology (*Medical School*)

The courses designated Biological Sciences are an introductory sequence in the Biochemical Sciences and Biology concentrations. They are jointly organized by the departments of Molecular and Cellular Biology and Organismic and Evolutionary Biology. The courses designated Molecular and Cellular Biology are the responsibility of that department. The courses designated Biology are the responsibility of the Department of Organismic and Evolutionary Biology. The Head Tutor for the Biochemical Sciences concentration is James L. Michel. The Head Tutor for the Biology concentration is William M. Gelbart.

## ***Biological Sciences***

### ***Primarily for Undergraduates***

#### **Biological Sciences 1. Introductory Genetics, Molecular, Cellular, and Developmental Biology**

Catalog Number: 1812

*William M. Gelbart, William D. Fixsen, and Robert Lue*

*Half course (spring term). M., W., F., at 12, and three hours of laboratory each week. EXAM GROUP: 5*

Principles of biology, with special reference to cellular and molecular mechanisms, genetics, and development. Emphasis on cells as evolved systems for the capture and transformation of energy and the processing of information.

*Note:* Lectures and weekly laboratory/discussion sessions.

*Prerequisite:* Chemistry 5, Chemistry 10, or permission of instructor.

#### **Biological Sciences 2. Organismic and Evolutionary Biology**

Catalog Number: 1922

*P. Barry Tomlinson, Andrew A. Biewener, and Brian D. Farrell*

*Half course (fall term). M., W., F., at 12, and three hours of laboratory each week. EXAM GROUP: 5*

An evolutionary and integrative functional approach to plant and animal biology, emphasizing organism, populations, and their environment. Topics to be covered include basic morphology and physiology, population and community dynamics, ecology, principles of population genetics, and evolutionary theory.



*Note:* Knowledge of introductory molecular biology is strongly recommended (Biological Sciences 1 or equivalent).

### **Biological Sciences 10. Introductory Molecular Biology**

Catalog Number: 1938

*Richard M. Losick*

*Half course (fall term). M., W., F., at 10, and a one-hour meeting each week; approximately four afternoon laboratory sessions to be arranged over the course of the semester. EXAM GROUP: 3*

The first semester of a year-long integrated introduction to the basic principles of biochemistry, molecular and cell 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.

*Prerequisite:* Chemistry 17 or 20.

### **Biological Sciences 11. Basic Principles of Biochemistry and Cell Biology**

Catalog Number: 8673

*Guido Guidotti*

*Half course (spring term). Lectures M., W., F., at 10, and a one-hour meeting during which problem sets are solved; one laboratory session each week. EXAM GROUP: 3*

An introduction to the structure and function of cells and the major experimental tools used in modern cell biology. Emphasis is placed on the biochemistry and organization of proteins, macromolecules, and organelles so that an understanding of intracellular and cell-to-cell regulation can be achieved. Topics include structure and function of proteins, biochemical catalysis, energy conversion, the maintenance of cellular compartments, and transmembrane and cell-cell signaling.

*Prerequisite:* Chemistry 27 or equivalent, but Chemistry 27 may be taken concurrently.

### **Biological Sciences 14. Genetics**

Catalog Number: 6434

*Daniel L. Hartl*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 12, 13*

Provides a clear, comprehensive, and rigorous introduction to genetics. Maintains a balance between genetics as a body of knowledge pertaining to genetic transmission, function, and mutation (the principles) and genetics as an experimental approach to understanding complex biological mechanisms (genetic analysis). Principal goals: To understand the basic processes of gene transmission, mutation, regulation, and evolution. To formulate genetic hypotheses, deduce their consequences, and test predictions against observed data. To use the principles of probability and statistics in solving quantitative problems in genetics. To appreciate the social and historical context in which genetics has developed and is continuing to develop. To become familiar with genetic resources and information available through the Internet.

### **Biological Sciences 25 (formerly MCB 25 and Psychology 12). Behavioral Neuroscience**

Catalog Number: 6052

*John E. Dowling and Mark G. Baxter*



*Half course (spring term). Lectures, 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. Topics include the cell biology of neurons, electrical and biochemical signaling by neurons, mechanisms of sensation and perception, control of movement, learning and memory, language, motivation and emotion. Surveys research on mental illness, neurological diseases, and computational models of brain function.

*Note:* Introductory Biology recommended.

## ***Molecular and Cellular Biology***

### ***Primarily for Undergraduates***

#### **\*Biochemical Sciences 91r. Introduction to Research**

Catalog Number: 6083

*James L. Michel (Medical School) and members of the Faculty*

*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 by the end of the reading period both 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:* Open only 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 be repeated only with prior permission of the Chairman of the Board of Tutors. (Forms are available in the Tutorial Office.)

#### **\*Biochemical Sciences 99. Laboratory Research for Honors Thesis**

Catalog Number: 6670

*James L. Michel (Medical School) and members of the Faculty*

*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 by the end of the preceding spring term. Students may enter the course at midyear only with the permission of the Head Tutor. (Students intending to enroll in the spring must submit a written proposal to the Biochemical Sciences Tutorial Office by the beginning of the fall term.) The thesis proposal must be approved by the Chairman of the Board of Tutors prior to enrolling in Biochemical Sciences 99.

#### **MCB 16. Developmental Biology**

Catalog Number: 0749

*Andrew P. McMahon*

*Half course (fall term). M., W., 8:30–10. EXAM GROUP: 1*

A comprehensive lecture course in developmental biology. The principles and mechanisms of animal development are emphasized and illustrated using several animal models. Emphasis



placed on experimental approaches at the molecular, genetic, and cellular levels of organization. For example, we will discuss how the egg gives rise to an adult with a functioning skeleton, brain and other organs, how sex is determined and how these mechanisms are conserved from insects to humans.

*Prerequisite:* Biological Sciences 1. Biological Sciences 10 or 11 suggested but not required.

### **MCB 61. Physical Biochemistry**

Catalog Number: 0190

*James E. Davis*

*Half course (spring term). Tu., Th., 11:30–1, and one section per week. EXAM GROUP: 13, 14*

An introduction to solution thermodynamics and kinetics as applied to molecular interactions in biochemistry. Includes an introduction to statistical thermodynamics, as well as treatment of multiple equilibria, ions in solution, interaction among small molecules and macromolecules, transport properties of macromolecules, enzyme catalyzed reactions, and spectroscopy.

*Prerequisite:* Mathematics 1a and 1b (Mathematics 21a recommended), Physics 11, Chemistry 7 or 10.

### ***For Undergraduates and Graduates***

Attention is called to the following course: Chemistry 170. Chemical Biology

### **MCB 112. Structure and Function of Proteins and Nucleic Acids**

Catalog Number: 6380

*Stephen C. Harrison*

*Half course (fall term). Tu., Th., 5–7 p.m. EXAM GROUP: 18*

Principles of protein and nucleic acid structure and assembly. This course is especially intended for first year graduate students in MCB and Biophysics, but it is also appropriate for suitably prepared undergraduates.

*Prerequisite:* Biological Sciences 10 and 11 (or equivalent) and MCB 61, or equivalent preparation in physical chemistry.

### **\*MCB 113. Principles of Genetic Analysis**

Catalog Number: 0875 Enrollment: Limited to 25

*Nancy Kleckner and members of the Faculty*

*Half course (spring term). Tu., Th., 2–4. EXAM GROUP: 16, 17*

Advanced treatment of principles and methods of genetic analysis. Classical and molecular approaches are discussed as applied to a range of organisms from bacteria to man.

*Prerequisite:* Biological Sciences 10, 11, and 14 (or equivalents).

### **MCB 116. Experimental Embryology**

Catalog Number: 1207 Enrollment: Limited to 24

*Elizabeth J. Robertson*

*Half course (fall term). M., 2–6. EXAM GROUP: 7, 8, 9*

An introduction to basic problems in developmental biology by direct experimentation. Both classical and modern molecular manipulations of developing embryos are performed to study cell specification, differentiation, organ formation, and embryonic induction. Various aspects of pattern formation are analyzed including the establishment of polarity and body axes, making use



of frogs, chicken, mice and fish.

*Note:* Laboratory course primarily for advanced undergraduates and graduate students.

*Prerequisite:* Biological Sciences 10 or 11 or MCB 16.

### **MCB 117. Experimental Neuroscience**

Catalog Number: 3175 Enrollment: Limited to 16

*Markus Meister, John E. Dowling, Samuel M. Kunes, and Ken Nakayama*

*Half course (fall term). Tu., Th., 2–5. EXAM GROUP: 16, 17, 18*

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:* Biological Sciences 25.

### **MCB 119. Experimental Genetics**

Catalog Number: 4472 Enrollment: Limited to 15

*John S. Chant*

*Half course (spring term). W., 12–3, F., at 3. EXAM GROUP: 5, 6, 7*

The primary objective is to illustrate the principles and techniques of genetics with the most tractable eukaryotic genetic organism, budding yeast. Because yeast cells are used so widely in biology as the organism of choice or as an organism for working with heterologous proteins, the course also serves as an introduction for those who wish to use yeast in the future. Each week, a genetic experiment is performed. For each experiment, there is some modest background reading from research literature and a short lecture at the beginning of the laboratory period.

### **MCB 121. Animal Genetic Systems**

Catalog Number: 9084 Enrollment: Limited to 20

*Craig P. Hunter*

*Half course (spring term). M., W., 4–6. EXAM GROUP: 9*

This course will focus on the development and use of model genetic systems (*C. elegans*, *Drosophila*, zebrafish, mouse, and human) to study animal development, physiology, and evolution. Introductory lectures will precede discussions and student presentations of the current and classical literature.

*Prerequisite:* Biological Sciences 10, 11, and 14 (or equivalents).

### **\*MCB 122. Regulation of Cell Proliferation**

Catalog Number: 1403 Enrollment: Limited to 20

*Brian D. Dynlacht and Raymond L. Erikson*

*Half course (fall term). M., W., 4–6. EXAM GROUP: 9*

The molecular and biochemical events occurring during the cell cycle are considered. Topics include growth factors and their receptors, second messengers, protein phosphorylation, gene expression, oncogenes, and tumor suppressor genes. The course consists of lectures and student



presentations from the current literature. An optional laboratory section will be offered to students with limited laboratory experience interested in the techniques considered in the lectures.

*Prerequisite:* Biological Sciences 10 or equivalent.

### **[MCB 125. Introduction to Biophysics]**

Catalog Number: 5593

*Howard C. Berg and John M. Doyle*

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

An introduction to physical processes that underlie the behavior of cells and organisms and the methods used for their study. Elements of probability and statistics, the random walk, and diffusion. Physics of fluid flow, mechanical design, locomotion, and flight. Biological effects of radiation.

*Note:* Expected to be given in 2000–01. Physics 1b, 11b or 15b and Biological Sciences 10 or 11 are very helpful but not required.

*Prerequisite:* Elementary calculus and one-half course in physics.

### **MCB 129. Molecular Genetics of Neuronal Development**

Catalog Number: 8956 Enrollment: Limited to 25

*Samuel M. Kunes*

*Half course (fall term). Tu., Th., 10:30–12. EXAM GROUP: 12, 13*

Topics include the control of neuronal differentiation and cellular identity, cell birth and cell death, axon guidance and the mechanisms of synaptic specificity. Emphasis placed on genetic approaches to understanding the development of the nervous system.

### **MCB 138. Function of Neural Systems**

Catalog Number: 1153 Enrollment: Limited to 25

*Markus Meister*

*Half course (spring term). W., F., 10–11:30. EXAM GROUP: 3, 4*

Introduction to the known functional principles of large neural circuits responsible for the processing of sensory input, learning and memory, and control of movement. Covers the physiological mechanisms underlying collective neural function and the methods useful in their analysis.

*Prerequisite:* Biological Sciences 25 and one half course in physics or permission of instructor.

### **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:* Biological Sciences 10 and 25.



**MCB 142 (formerly MCB 242). Chromosomes**

Catalog Number: 7948 Enrollment: Limited to 20

*Matthew S. Meselson*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Selected aspects of the structure, replication, segregation, recombination and function of chromosomes. Lectures, student presentations and critical discussion of the scientific literature.

**\*MCB 155. Molecular Mechanisms of Gene Control**

Catalog Number: 6230

*Tom Maniatis*

*Half course (fall term). Tu., Th., at 4pm, plus two-hour section times to be arranged. EXAM GROUP: 15*

An advanced course on the control of gene regulation. Topics include mechanisms of gene regulation at the level of transcription, chromatin structure, DNA rearrangement, 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. Term paper and two exams.

*Prerequisite:* Biological Sciences 10 and 11 (or equivalent), and permission of instructor.

**MCB 169. Molecular and Cellular Immunology**

Catalog Number: 2518

*Hidde Ploegh (Medical School)*

*Half course (fall term). Tu., Th., 10–11:30, and a ninety minute discussion section per week to be arranged. 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:* Biological Sciences 1 and 10. Genetics and Cell Biology strongly recommended.

**MCB 176. Membrane Function**

Catalog Number: 3186

*Guido Guidotti*

*Half course (fall term). M., 2–4, and a two-hour session during which research papers are analyzed. EXAM GROUP: 7, 8*

The structure of membrane proteins and their involvement in transport and signal transduction.

*Prerequisite:* Biological Sciences 10 and 11 or equivalent.

**MCB 177. Macromolecular Assemblies in Genetic Processes**

Catalog Number: 3102 Enrollment: Limited to 30

*James C. Wang*

*Half course (spring term). M., 7–9 p.m. EXAM GROUP: 9*

Selected topics on complex assemblies in replication, repair, recombination and transcription will be discussed. Emphasis is on the structural basis of an assembly and the macromolecular interactions underpinning its function.



*Prerequisite:* Biological Sciences 10 and 11 or equivalent, or permission of the instructor.  
Background in macromolecular structures and functions encouraged.

### **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 per week to be arranged.*

*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:* Biological Sciences 1 and 2; Biological Sciences 25 desirable.

### ***Cross-listed Courses***

### **Biophysics 101. Genomics and Computational Biology**

***Primarily for Graduates***

### **MCB 212. Topics in Biophysics**

Catalog Number: 3351

*Howard C. Berg*

*Half course (spring term). F., 2:30–4. EXAM GROUP: 7, 8*

Motility and sensory transduction: Chemotaxis in bacteria; flagellar motility; prokaryotic and eukaryotic motor molecules. A term paper and seminar will be required.

### **[\*MCB 225. Topics in Neurobiology]**

Catalog Number: 1149 Enrollment: Limited to 15.

*John E. Dowling*

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

An in-depth review of one or a few topics of current interest to the participants. Student seminars, occasional guest lecturers, and discussions.

*Note:* Expected to be given in 2000–01. Open to graduate students and undergraduates with special interests and training.

*Prerequisite:* Biological Sciences 25 or equivalent.

### **MCB 268. Molecular Immunology: Seminar**

Catalog Number: 2196 Enrollment: Limited to 20.

*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 is presented by a student in 20-30 minutes. Reading of the papers, seminar presentations, and class participation are the only work of the course.



*Prerequisite:* MCB 169 or permission of instructor required for undergraduates, but not essential for graduate students.

**[MCB 289. Photobiology]**

Catalog Number: 7087 Enrollment: Limited to 10.

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

Interaction of light with biological systems and the relevant principles of photochemistry and photophysics. Topics include vision, photosynthesis, bioluminescence, photoinactivation and mutation, photomovement and morphogenesis, photoperiodism, and photomedicine.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biological Sciences 1 and Biological Sciences 11 or equivalent, and an introductory course in physics.

***Graduate Courses of Reading and Research***

**\*MCB 300. Introduction to Research**

Catalog Number: 4816

*Douglas A. Melton 7232 and James C. Wang 4870*

**\*MCB 304. Biochemistry of Cell Cycle Regulation**

Catalog Number: 2980

*Brian D. Dynlacht 1940*

**\*MCB 306. Biophysics and Physiology of Neurons**

Catalog Number: 1695

*Venkatesh N. Murthy (Medical School) 2424*

**\*MCB 310. Molecular Embryology of the Mouse**

Catalog Number: 8031

*Elizabeth J. Robertson 3313*

**\*MCB 312. Military and Arms Control Applications of Biology and Chemistry**

Catalog Number: 2063

*Matthew S. Meselson 1319*

**\*MCB 314. Molecular Genetics of Cell-Cell Interactions in Plants**

Catalog Number: 5564

*Robert E. Pruitt 3376 (on leave fall term) (on leave fall term)*

**\*MCB 322. Genetics and Development**

Catalog Number: 7290

*Craig P. Hunter 2803*

**\*MCB 326. Biochemical Virology**

Catalog Number: 0243

*Raymond L. Erikson 7506*



**\*MCB 344. Molecular and Developmental Neurobiology**

Catalog Number: 2292

*Catherine Dulac 2801*

**\*MCB 351. Structural Molecular Biology**

Catalog Number: 1977

*Stephen C. Harrison 3597*

**\*MCB 352. Structural Molecular Biology**

Catalog Number: 2099

*Don C. Wiley 3598 (on leave fall term)*

**\*MCB 359. Molecular Genetics**

Catalog Number: 6278

*Nancy Kleckner 4697*

**\*MCB 360. Proteins Involved in DNA Transactions**

Catalog Number: 0407

*James C. Wang 4870*

**\*MCB 364. Vertebrate Development**

Catalog Number: 1396

*Andrew P. McMahon 3312*

**\*MCB 365. Neurobiology**

Catalog Number: 8349

*John E. Dowling 3545*

**\*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 (on leave spring term)*

**\*MCB 374. Developmental Neurobiology**

Catalog Number: 6167

*Samuel M. Kunes 3486*

**\*MCB 375. Molecular Biology of Cell Division**

Catalog Number: 4991

*John S. Chant 3485*



**\*MCB 376. Molecular Biology**

Catalog Number: 4159

*Walter Gilbert 1306 (on leave spring term)*

**\*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*

**\*MCB 381. Microbial Development**

Catalog Number: 4994

*Richard M. Losick 3561*

**\*MCB 382. Molecular Immunology**

Catalog Number: 5515

*Jack L. Strominger 1193*

**\*MCB 386. Molecular Evolution**

Catalog Number: 0763

*Matthew S. Meselson 1319*

**\*MCB 390. Function of Neuronal Circuits**

Catalog Number: 8883

*Markus Meister 3007*

**\*MCB 391. Biochemistry**

Catalog Number: 4888

*Guido Guidotti 1203*

**\*MCB 395. Eukaryotic Gene Regulation**

Catalog Number: 7697

*Tom Maniatis 7231*

**\*MCB 399. Vertebrate Developmental Biology**

Catalog Number: 7699

*Douglas A. Melton 7232*

***Biology***

Certain courses at the Medical School, offered by the FAS through the Division of Medical Sciences (see listings in this catalog), may be counted for concentration credit by individual petition to the Biology Undergraduate Committee *prior* to filing the study card. These include



courses in Biological Chemistry and Molecular Pharmacology, Cell Biology, Genetics, Immunology, Microbiology, Neurobiology, Pathology, and Virology.

With the approval of the Biology Undergraduate Committee, summer courses taken at the Marine Biological Laboratory, Woods Hole, Massachusetts, may be counted toward degree requirements, but the total credit so obtained shall not exceed one course. Similarly, and with the same limitations, courses taken in Tropical Biology under the auspices of the Organization for Tropical Studies may be counted toward degree requirements.

***Primarily for Undergraduates***

**Biology 10. Biology of Invertebrate Animals**

Catalog Number: 7873

*Kenneth J. Boss*

*Half course (fall term). Lectures M., W., F., at 11; laboratory to be arranged. EXAM GROUP: 4*  
Surveys the diversity of invertebrate animals, including their natural history and probable evolutionary relationships. The ecological and behavioral adaptations as well as the morphology and systematics of these organisms are explored, using common marine, freshwater, terrestrial, and parasitic species.

*Note:* Biological Sciences 2 recommended, or permission of instructor required.

**Biology 17. Evolution**

Catalog Number: 1799

*Andrew J. Berry*

*Half course (spring term). Tu., 8:30–10. EXAM GROUP: 10, 11*

A study of the course and processes of organic evolution. Topics include the history of ideas of evolution, population genetics, population ecology, speciation, the concept of adaptation, coevolution, evolutionary rates, evolutionary convergences, mass extinctions, and biogeography.

*Note:* Complements Biology 19.

*Prerequisite:* Science B-15 or Biological Sciences 2, and some familiarity with elementary mathematical manipulations.

**Biology 19. Population Biology: Ecology**

Catalog Number: 3365

*Fakhri A. Bazzaz*

*Half course (spring term). M., W., F., at 10, weekly discussion section, and a minimum of three 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 and stability, and resource management.

*Note:* Complements Biology 17.

*Prerequisite:* Mathematics 1 and Science B-15 or Biological Sciences 2 or equivalent.

**Biology 20. Biological Diversity**

Catalog Number: 0761



*David A. Baum and Andrew H. Knoll*

*Half course (spring term). Tu., Th., 10–11:30; one afternoon of laboratory/discussion each week.*

*EXAM GROUP: 12, 13*

An overview of the structural and functional diversity of organisms, with emphasis on recent advances in understanding phylogenetic relationships among the primary branches of life and the evolution of diversity through geological time. Emphasis placed on the origin and diversification of major groups, the maintenance of diversity in natural ecosystems, and the conservation of biodiversity.

*Prerequisite:* Biological Sciences 2, or permission of instructor.

### **Biology 21. Structure and Physiology of the Vertebrates**

Catalog Number: 0921

*Andrew A. Biewener*

*Half course (fall term). Lectures, M., W., F., at 9, and five hours of laboratory each week. 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 groups in relationship to environmental problems. 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:* Biological Sciences 1 and 2.

### **Biology 22. Animal Behavior**

Catalog Number: 2539

*Tecumsch Fitch*

*Half course (fall term). Lectures, Tu., Th., at 10; evening movie section to be arranged; ninety minutes of discussion section each week. EXAM GROUP: 12*

A review of the behavior of animals under natural conditions, with emphasis on both mechanistic and evolutionary approaches. Topics include motivation and behavioral endocrinology; development; behavioral genetics and learning; signaling, deceit and animal consciousness; orientation, migration and biological rhythms: optimization and game theory; parental investment and mating systems; selfishness, altruism, and reciprocity; and sociality in vertebrates and invertebrates.

*Prerequisite:* Science B-15, B-29 or Biological Sciences 1, 2, or Biology 20 or equivalent, or permission of instructor.

### **Biology 24. Biology of Plants**

Catalog Number: 1343

*N. Michele Holbrook and P. Barry Tomlinson*

*Half course (spring term). Tu., Th., 11:30–1, one afternoon laboratory per week, plus occasional field trips. EXAM GROUP: 13, 14*

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.

### ***Tutorials, Independent Research, and Thesis Work***

See Biology 121a, Biology 121b, and Biology 200r for other independent research options. Students who participate in independent research laboratory courses (Bio 98r, 99ar, 99b, 121a, 121b, or 200r) are required to attend a safety session on matters concerned with safety procedures before or at the beginning of their laboratory work. Credit for these courses is contingent upon compliance with this requirement. Biology 95hf: Tutorial for Credit course descriptions and syllabi are available in the Biology Undergraduate Office and on Biology's Web site at <http://www.mcb.harvard.edu>. Students should enter on the study card the "Catalog Number" of the Tutorial in which they wish to enroll.

#### **\*Biology 91r. Supervised Reading**

Catalog Number: 2817

*William M. Gelbart 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 of instruction. Normally work is directed by a Biology faculty member of the Department of Molecular and Cellular Biology or Organismic and Evolutionary Biology. For biology concentrators, work may be supervised by faculty in other departments or outside Cambridge, provided it is co-sponsored by a Biology faculty member. Nonconcentrators must conduct their reading project with a Biology faculty member. Students must submit a registration request to the Biology Undergraduate Office before course enrollment. A written report of approximately 10 pages describing the material covered during the term is due in duplicate in the Undergraduate Office on the date indicated on the registration form.

*Note:* May be taken only once for concentration credit. May not be taken with the director/sponsor of an independent research course. Registration forms will not be accepted after Study Cards are due.

*Prerequisite:* Four semesters of introductory biology.

#### **\*Biology 95hfa. Genetic Screens: Dissecting Complex Biological Systems**

Catalog Number: 2052

*William M. Gelbart and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

#### **\*Biology 95hfb. The Science of Exercise: Cardiopulmonary and Muscular Adaptations**

Catalog Number: 2607

*William M. Gelbart and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

#### **\*Biology 95hfc. Cell Signaling In the Immune System. Apoptosis and Immune Diseases as Targets for Biotechnology Research**

Catalog Number: 2935

*William M. Gelbart and members of the Department*

*Half course (throughout the year). Hours to be arranged.*



**\*Biology 95hfd. Gene Therapy**

Catalog Number: 3437

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfe. Molecular Virology: Playing by a Different Set of Rules?**

Catalog Number: 4021

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hff. Oncogenes and Molecular Initiation of Cancer**

Catalog Number: 5745

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfg. Conservation Biology**

Catalog Number: 4576

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfh. Disordered Immunity: The Basis for Autoimmunity**

Catalog Number: 4969

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfi. Sensing Sound: The Psychophysics and Neurophysiology of Hearing**

Catalog Number: 7067

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95h fj. Vertebrate Brain Development: Mechanisms and Diseases**

Catalog Number: 6361

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfk. From Disease Genes to Crop Improvement: Molecular Analysis of Polygenic Traits**

Catalog Number: 7431

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfl. Problem Solving in Neuroscience: An On-line E-case Environment and Student-Centered Interactive Learning**

Catalog Number: 7072

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*



**\*Biology 95hfm. Evolutionary Perspectives on Infectious Disease**

Catalog Number: 7766

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfn. Biology and Evolution of the Dinosauria**

Catalog Number: 8189

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfo. Games Parasites Play: The Cellular and Molecular Biology of Host/Parasite Interactions**

Catalog Number: 8456

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfp. Sticky-Tricky-Hairy-Scary Plants: Ecology and Evolution of Plant-Animal Interactions**

Catalog Number: 8846

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfq. Molecular Mechanisms of Cancer**

Catalog Number: 8555

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfs. Signaling Mechanisms in Neuronal Cell Biology**

Catalog Number: 9282

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hft. The Guinness Book of Plants: Extreme Plant Physiology**

Catalog Number: 5169

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfv. Biodiversity: Science, Policy, and Law**

Catalog Number: 8959

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfw. Ecology, Detection, and Treatment: Disease in the Developing World**

Catalog Number: 1197

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.*

**\*Biology 95hfx. Muscles, Metabolism, and Movement**

Catalog Number: 8716

*William M. Gelbart and members of the Department  
Half course (throughout the year). Hours to be arranged.***\*Biology 98r. Introduction to Research**

Catalog Number: 8616

*William M. Gelbart and members of the Department  
Half course (fall term; repeated spring term). Hours to be arranged.*

Introduction to independent research. Recommended for students (ordinarily in the junior year) with no previous independent laboratory or library research experience. For Biology concentrators, ordinarily work is directed by a member of the Biological Sciences departments (MCB: Molecular and Cellular Biology, and OEB: Organismic and Evolutionary Biology) or affiliates. Other research sponsors must be approved by petition to the Biology Undergraduate Office. Non-concentrators must conduct their project with a faculty member in MCB or OEB. All students must submit registration materials for Biology 98r at the time of enrollment. A written report of approximately 5 pages is due in duplicate in the Biology Undergraduate Office on the date indicated on the registration form.

*Note:* To be graded SAT/UNS only. Laboratory safety session required.

**\*Biology 99ar. Research for Honors Thesis**

Catalog Number: 8037

*William M. Gelbart and members of the Department  
Half course (fall term; repeated spring term). Hours to be arranged.*

Ordinarily taken by students planning on writing an honors thesis. Recommended as the research course to be taken in the first semester of the student's senior year. For Biology concentrators, work may be directed by a member of the Biological Sciences departments (MCB: Molecular and Cellular Biology, and OEB: Organismic and Evolutionary Biology) or affiliates. Other research sponsors must be approved by the Biology Undergraduate Committee and require an MCB or OEB co-sponsor. Non-concentrators must conduct their project with a faculty member in MCB or OEB. All students must submit registration materials for Biology 99ar at the time of enrollment. A written report of approximately 10 pages is due in duplicate in the Biology Undergraduate Office on the date indicated on the registration form. All students enrolling in this course must submit a short thesis proposal prior to the first day of classes of the fall semester. The thesis proposal form is available in the Biology Undergraduate Office.

*Note:* May be repeated only with special permission of the Biology Undergraduate Committee. Laboratory safety session required.

**\*Biology 99b. Honors Thesis**

Catalog Number: 7264

*William M. Gelbart and members of the Department  
Half course (fall term; repeated spring term). Hours to be arranged.*

Taken by students who are actively writing their honors thesis (ordinarily in the second semester of their senior year). For Biology concentrators, work may be directed by a member of the Biological Sciences departments (MCB: Molecular and Cellular Biology, and OEB: Organismic and Evolutionary Biology) or affiliates. Other research sponsors must be approved by the



Biology Undergraduate Committee and require an MCB or OEB co-sponsor. Non-concentrators must conduct their project with a faculty member in MCB or OEB. All students must submit registration materials for Biology 99b at the time of enrollment. These registration materials are available in the Biology Undergraduate Office. Honors levels determined by the Biology Undergraduate Committee based upon readers' evaluations.

***For Undergraduates and Graduates***

**[Biology S-105. Biodiversity of Tropical Plants \(No Catalog Number — requires Harvard Summer School registration\)](#)**

Catalog Number: 00-1

*P. Barry Tomlinson (spring term)*

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

An in-residence course centered in Miami, Florida, at Fairchild Tropical Garden. An intensive field and laboratory examination of tropical plant families with access to specialized tropical ecosystems available in South Florida. Attention given to economic plants of the tropics and specialized groups (e.g., palms and cycads) which are well represented in the area. Emphasis on growth and function as well as morphology, anatomy, and systematics.

*Note:* Students are admitted on the basis of previous experience and are examined on the basis of independent research projects.

**[Biology 102. Evolution and Biology of the Seed]**

Catalog Number: 7580

*P. Barry Tomlinson*

*Half course (spring term). Hours to be arranged; plus additional laboratory work at the Arnold Arboretum and the Harvard Forest.*

The evolution of the seed had major impact on the development of modern vegetation and hence of modern faunas, but can be traced back to the late Devonian. The evolutionary origins of the seed will be traced on the basis of paleobotanical evidence and comparative morphology of modern vascular plants. The biological conflict between the functions of the ovule (the seed precursor) at the time of pollination and the need for protection of the embryo will be discussed, together with the biological implications of seed dormancy.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biological Sciences 2 recommended.

**[Biology 103. Plant Systematics](#)**

Catalog Number: 8704

*Michael J. Donoghue*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

An introduction to the phylogeny, evolution, and diversification of the flowering plants, with emphasis on the major plant families of the world. Native and cultivated plants of eastern North America are studied in laboratory and field work.

*Prerequisite:* Biological Sciences 2 or permission of instructor.

**[Biology 104. Plants and Human Affairs](#)**

Catalog Number: 5281



*Otto T. Solbrig*

*Half course (spring term). Lectures, M., W., F., at 10, and five three-hour laboratories. EXAM GROUP: 3*

An introduction to the biology and use of plants of economic importance, including the role that plants have played in the development of civilization and in modern society. Topics to be covered are the structure, classification, economic importance, chemistry, and evolution and culture of the principal crops of the world, and cultural methods, including the use of biotechnology in plant breeding.

*Prerequisite:* Introductory Biology (Biological Sciences 2) or equivalent.

### **Biology 107. Evolution of Plant Life in Geologic Time**

Catalog Number: 1318

*Andrew H. Knoll*

*Half course (fall term). Lectures, M., W., F., at 9, and three hours of laboratory each week.*

*EXAM GROUP: 2*

Origin, evolution, dispersal, paleoecology, and geologic history of the major groups of the plant kingdom. Laboratory study of representative groups, living and fossil.

*Prerequisite:* Biological Sciences 2 or permission of instructor. Biology 20 recommended.

### **[Biology 113. Nonvascular Autotrophs and Fungi: A Survey]**

Catalog Number: 3672

*Donald H. Pfister*

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

The biology and classification of algae, bryophytes, lichens, and fungi are considered. The goal is to introduce students to the diversity of the groups and the ecology, growth, and development of these organisms. Begins by reviewing previous classification schemes used to cover these groups. Life cycles, anatomy-morphology, physiology, and ecology of each group are covered through lectures, laboratory, and field trips. Each student is expected to undertake an independent project.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biological Sciences 1 and 2 or equivalent.

### **Biology 114 (formerly Biology 213). Vertebrate Viviparity**

Catalog Number: 4953

*David A. Haig*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

Viviparity has evolved many times in vertebrate phylogeny. The course will review 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 will be considered.

### **Biology 118. Biological Oceanography**

Catalog Number: 7752

*James J. McCarthy*

*Half course (spring term). Tu., Th., 10–11:30, and a two-hour discussion session each week.*

*EXAM GROUP: 12, 13*

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, man's impact on the marine environment, and critical analyses of current literature.

*Note:* For Biology and other natural science concentrators.

*Prerequisite:* Biological Sciences 1 and 2 and Chemistry 5 and 7 or Chemistry 10. Biology 19 is recommended.

### **Biology 120. Physiology of Plants**

Catalog Number: 2554

*N. Michele Holbrook*

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

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.

*Prerequisite:* Biological Sciences 1 or permission of the instructor.

### **Biology 121a. Advanced Structure and Physiology of the Vertebrates**

Catalog Number: 4049

*Andrew A. Biewener, A. W. Crompton, and others*

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

The purpose of this course is to introduce students to experimental techniques used in investigating the structure and physiology of vertebrates. Each instructor offers a list of research projects to be undertaken in his or her laboratory, and is prepared to supervise 5 students per instructor. The only formal class meetings are at the beginning (at which time the students outline their projects) and at the end when the project results are presented. An extensive commitment of time in the laboratory is required. The grade is based on the work completed, the oral presentation, and a short paper prepared as if it were to be submitted for publication in a professional journal.

*Note:* Laboratory safety session required.

*Prerequisite:* Biology 21 preferred, or permission of instructor.

### **\*Biology 121b. Advanced Structure and Physiology of the Vertebrates**

Catalog Number: 4670

*Andrew A. Biewener*

*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:* Biology 121a.

### **[Biology 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 2000–01.

*Prerequisite:* Biological Sciences 1 and 2, and Biological Sciences 11 or equivalent, or permission of instructor.

### **Biology 124. Genetics and the Origin of Species**

Catalog Number: 7568

*Kerry L. Shaw*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Topics including the genetic nature of species and the genetic mechanisms of speciation will be covered. Lectures on the genetic and phenotypic principles of evolution, the genetic structure of populations and the genetics of functional systems involved in the origins of biodiversity will provide the conceptual tools for discussions of the classic and modern primary literature. Course participation consists of half lecture, half discussion of the primary literature (both classic and modern).

*Prerequisite:* Biological Sciences 1; Biology 17, Biology 20 or Biology 22 or permission of the instructor. Some background in genetics will be helpful.

### **\*Biology 130. Patterns and Processes in Fish Diversity**

Catalog Number: 4624 Enrollment: Limited to 10

*Karel F. Liem*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

As the largest and most diverse group of vertebrates, fishes inhabit virtually all aquatic environments including deep seas, intertidal zones, coral reefs, polar waters, the vast Amazonian basin, and great East Africa lakes. Some even exploit anoxic systems and temporary water bodies uninhabitable by other vertebrates. Moreover, a single fish species may occupy diverse environments through extraordinary long distance horizontal and vertical migratory strategies. To explore this unparalleled diversity, the course emphasizes bridging traditional academic boundaries with integrative analyses of the biology underlying rapid evolutionary radiations, stasis, and mass extinctions.

*Prerequisite:* Biological Sciences 1 and 2, or permission of instructor.

### **[Biology 133. Biology of Mollusks]**

Catalog Number: 0751

*Kenneth J. Boss*

*Half course (spring term). Hours to be arranged. Field trips and laboratories to be arranged.*

Predominantly an organismic approach to the biology of the Phylum Mollusca; surveys the diversity of marine, terrestrial, and fresh-water mollusks, including special aspects of current research in systematics, ecology, zoogeography, and paleontology.

*Note:* Expected to be given in 2000–01. Biological Sciences 2 recommended, or permission of instructor required.



### **Biology 134. Behavioral Genetics**

Catalog Number: 5230

*Kerry L. Shaw*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

A seminar that focuses on the primary literature in the field of behavioral genetics, addressing our current understanding of behavior at the molecular, organismal, population and phylogenetic levels. Where possible, we will examine case studies of research systems for which we have insights at each level of analysis.

*Prerequisite:* Biological Sciences 1 and 2; BS 10 or some background in molecular biology desirable. Biology 20 and 22 also helpful.

### **[Biology 135. The Biology, Biochemistry, and Physiology of the Skeletal System of Vertebrates]**

Catalog Number: 1278 Enrollment: Limited to 30

*Melvin J. Glimcher (Medical School)*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Topics include development of bone and cartilage as organs and as tissues; mechanisms for remodeling (including fracture repair and tissue and organ grafting); biochemical composition, structure, and ultrastructural organization of the inorganic mineral phase and its molecular and structural relationships to the constituents of the organic matrix; the primary, secondary, and higher-ordered structures of collagen and noncollagenous proteins of bone; general principles underlying the molecular mechanisms and calcification of bone and other mineralized biological tissue; the structure, chemical composition, and function of the articular cartilage; and the biomechanics and biochemistry of joint function: and the pathophysiology of bone and cartilage to illuminate the basic biology, chemistry, and physiology of these tissues and organs. Selected related topics in molecular biology, and the molecular basis of genetic abnormalities of the skeleton.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biological Sciences 2 and inorganic and organic chemistry, or permission of instructor.

### **Biology 139. Evolution of the Vertebrates**

Catalog Number: 8562

*A. W. Crompton and Farish A. Jenkins, Jr.*

*Half course (spring term). Tu., Th., at 8. EXAM GROUP: 10*

Concentrates on the major steps in vertebrate evolution and does not attempt a synoptic review of fossil vertebrates. Emphasis on the anatomical and physiological changes that occurred in the transitional stages leading to fish, amphibians, reptiles, birds, and mammals as well as the geographic locations and environment in which these groups originated.

*Prerequisite:* Biological Sciences 2, Biology 21, or equivalent.

### **[Biology 143. Biology of the Fungi]**

Catalog Number: 1308

*Donald H. Pfister*

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

Introduction to the morphology, classification, evolution, and diversity of the fungi, including



both parasitic and saprophytic members. Attention to biological phenomena unique to fungi and their relationships to systems of classification. Students learn how to collect, isolate, and identify a variety of fungi.

*Note:* Expected to be given in 2000–01. At least one weekend field trip to be arranged.

*Prerequisite:* Science B-15, Biological Sciences 1 or 2, or equivalent.

**[\*Biology 147. Biogeography]**

Catalog Number: 7330

*Peter S. Ashton*

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

Introduction to the geography of plants and animals. Distribution of species and genera, and development of floras and faunas interpreted in terms of population and species ecology, and the processes of migration, adaptation, and speciation.

*Note:* Expected to be given in 2001–02. Some familiarity with evolutionary theory and the major groups of plants and animals desirable.

**[Biology 149. Plant Ecology]**

Catalog Number: 2670

*Fakhri A. Bazzaz*

*Half course (fall term). Hours to be arranged; plus a two-hour discussion or laboratory session each week and occasional field trips.*

Introduction to concepts and principles of plant ecology, with emphasis on experimental approaches to understanding the biology of plant populations. Special attention is given to plant ecophysiological response to the physical and biological environment including energy, water, nutrients, environmental contaminants, pollinators, herbivores, predators and pathogens; competition and resource sharing; the niche and the level of ecological variation; community organization.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biology 17, 19, or permission of instructor.

**Biology 152. Population Genetics**

Catalog Number: 0903

*John R. Wakeley*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to population genetic theory. Covers deterministic and stochastic theory of gene frequencies, and coalescent theory of sample-based statistics. Emphasis on patterns of observed 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.

*Prerequisite:* Biology 17, calculus, and knowledge of statistics and probability.

**Biology 154. Theoretical Population and Community Ecology**

Catalog Number: 0244

*William H. Bossert*

*Half course (spring term). Hours to be arranged. Weekly discussion group to be arranged.*

Theoretical treatment of population dynamics, evolutionary ecology, and community organization. Includes discussion of population growth, life history adaptations, competition



theory, foraging strategies, coevolution, community models, diversity and stability of communities, comparison of ecosystems (ordination).

*Prerequisite:* Biology 17, 19, or equivalent; Mathematics 1a and 1b.

### **[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 2000–01. Includes three full weekend field trips to the Harvard Forest.

*Prerequisite:* Biological Sciences 2 or permission of instructor.

### **[Biology 168. Life Cycles of Plants and Fungi]**

Catalog Number: 2750

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

A study of the diversity and evolution of plant, fungal, and algal life cycles, with an emphasis on interactions between the generations. Topics will include embryology, sexual differentiation, mating types, parent-offspring and intragenomic conflict.

*Note:* Expected to be given in 2000–01.

### **Biology 174. Topics in Behavioral Biology: The Evolution of Cooperation**

Catalog Number: 5199 Enrollment: Limited to 20

*Naomi E. Pierce, David A. Haig, Marc D. Hauser, Kerry L. Shaw, and Richard W. Wrangham*  
*Half course (spring term). M., 3–6. EXAM GROUP: 8, 9*

Major issues in behavioral biology are examined in this course, with topics to change each year. The evolution of cooperation will be the focus of the 2000 spring term. The evolution of both inter- and intra-specific cooperation will be considered, including topics such as the evolution of complex social behavior, intra-cellular symbiosis, mutualism, reciprocal altruism, Prisoner's Dilemma, and conflict resolution. The course will involve invited speakers and participation of professors across disciplines.

*Prerequisite:* Biology 22, Anthropology 170, Biological Sciences 25 or Science B-29 or permission of instructor.

*Primarily for Graduates*

### **Biology 200r. A.B./A.M. Laboratory Research**

Catalog Number: 3696

*William M. Gelbart 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 A.B./A.M degree. To be taken in both the first and second semesters of the student's fourth year. Work may be directed by a member of the Biological Sciences departments (MCB - Molecular



and Cellular Biology, and OEB - Organismic and Evolutionary Biology) or affiliates. Other research sponsors must be approved by the Biology Undergraduate Committee and require an MCB or OEB co-sponsor. All students must submit registration materials for Biology 200r at the time of enrollment. In the first semester, a written report of approximately 10 pages is due in duplicate in the Biology Undergraduate Office on the date indicated on the registration form. In the second semester, the honors thesis will be submitted on the date indicated on the registration form. All students enrolling in this course must submit a short thesis proposal prior to the first day of classes. The thesis proposal form is available in the Biology Undergraduate Office.  
*Note:* Laboratory safety session required.

**Biology 208. Issues in Paleobiology: Seminar**

Catalog Number: 1344

*Andrew H. Knoll, Stephen J. Gould, and Charles R. Marshall*

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

A seminar focusing on current issues in paleobiology. Examines patterns of diversification, morphological change, and extinction, as well as detailed patterns of change across selected stratigraphic boundaries.

**\*Biology 209. Phylogenetic Analysis: Seminar**

Catalog Number: 2534

*David A. Baum*

*Half course (spring term). W., 1–3, Tu., 2–4. EXAM GROUP: 6, 7, 16, 17*

Methods for constructing and interpreting phylogenies. What phylogenies are, and how they may be inferred from molecular or morphological data. Hands-on experience of relevant software and discussion of the underlying assumptions of the main approaches. Methods for evaluating statistical robustness of phylogenetic hypotheses. Methods for utilizing phylogenies in evolutionary and comparative studies.

**[Biology 211r. Form, Function, and Evolution]**

Catalog Number: 2056

*Karel F. Liem and guest lecturers*

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

Intrinsic and extrinsic determinants of form, considered from the evidence of neontological studies of vertebrates. Emphasis on current research approaches and theories. Consists of a mixture of seminars by faculty, guest lecturers, and students. Topics vary from year to year and are determined by the interests of the students.

*Note:* Expected to be given in 2000–01.

**[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 2000–01.

*Prerequisite:* Biology 120 or permission of instructor.



**[Biology 214. Macroevolution of Interactions]**

Catalog Number: 7040

*Brian D. Farrell and Naomi E. Pierce*

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

Focuses on current issues pertaining to the macroevolution of resource use and interspecific interactions, with emphases on insects, plants, and fungi. The goal will be to achieve a synthetic view of the evolution of ecological specialization and the evolving trophic web. Topics will include the timing, liability, and consequences of evolutionary change in traits affecting interactions (including mutualisms and antagonisms), and their implications for community structure and diversity. Readings will be of paleontological, phylogenetic, and neontological studies from primary literature and recent reviews.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biology 17, 20, 22 or equivalent, or permission of instructor.

**Biology 216r (formerly Biology 216). Topics in Plant Evolution**

Catalog Number: 3081

*Michael J. Donoghue*

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

Critical discussion of current research in plant evolution; topics to change from year to year.

*Prerequisite:* Background in plant systematics and evolutionary biology; permission of the instructor.

**Biology 221. Bacterial Diversity**

Catalog Number: 1234

*Colleen M. Cavanaugh*

*Half course (spring term). Tu., 11:30–1. EXAM GROUP: 13, 14*

The remarkable diversity of prokaryotes is examined. Physiological, genetic, ecological, and evolutionary characteristics of bacterial groups are discussed, as well as the relation of phenotype to phylogeny.

*Prerequisite:* Biological Sciences 1 and 2, and Biological Sciences 11 or equivalent, or permission of instructor.

**\*Biology 234. Topics in Marine Biology**

Catalog Number: 4637 Enrollment: Limited.

*Robert M. Woollacott*

*Half course (fall term). W., 2–5. EXAM GROUP: 7, 8, 9*

Reproduction of marine invertebrates.

*Note:* Weekly class meeting and several field trips and laboratories through course of term.

Independent projects required.

**[Biology 236. Species and Speciation]**

Catalog Number: 5400

*Kerry L. Shaw*

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

Views on the nature of species are examined. Genetic and phenotypic models and mechanisms of the speciation process are examined and evaluated by case studies from a selection of the major



groups of organisms.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biological Sciences 14 and Biology 17 or 20, or permission of the instructor.

### **Biology 239r. Topics in Molecular Ecology and Evolution**

Catalog Number: 8124

*Stephen R. Palumbi*

*Half course (spring term). W., 3–5. EXAM GROUP: 17, 18*

Focuses on the use of molecular genetic tools to illuminate current issues in ecology, population biology, and evolution. We will use the primary literature to explore a particular topic chosen by the course participants. Topics to choose among will include mating systems and mate choice, population structure, genetic signatures of demographic history etc.

### **Biology 245. Topics in Plants and Environments**

Catalog Number: 1739

*Fakhri A. Bazzaz*

*Half course (fall term; repeated spring term). Tu., 7–10 p.m. EXAM GROUP: 18*

A discussion of recent advancements in research on plants in their environments. Presentations of research proposals. Discussions on design and execution of field and laboratory experiments and readings and discussions of important recent papers.

*Prerequisite:* Biology 149, equivalent, or permission of instructor.

### **[\*Biology 250. Tropical Ecology]**

Catalog Number: 5931

*Peter S. Ashton*

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

An introduction to the ecology of tropical communities with particular emphasis on adaptations of terrestrial plants. Fall lectures provide background for an optional research field trip to northern South America in late December or January. Students not participating in the field trip are asked to write a paper on a subject of their choice.

*Note:* Expected to be given in 2000–01.

### **\*Biology 251. Introduction to Vertebrate Surgery**

Catalog Number: 2075 Enrollment: Limited to 16

*Arthur L. Lage (Medical School)*

*Half course (fall term). W., 1–5. EXAM GROUP: 6, 7, 8, 9*

Teaches students 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. Course covers surgical applications for a wide variety of species including biped and quadruped mammals, ruminant and non-ruminant mammals, birds, amphibians, and reptiles; students are expected to integrate their previously learned knowledge of anatomy and physiology into the context of the whole, living animal.

*Note:* Intended for the student interested in the application of surgical technique in higher studies in biology and related disciplines.

*Prerequisite:* Comparative Anatomy, Biology 21, or equivalent course.



**[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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biology 152 or consent of instructor: calculus and statistics or probability.

**[Biology 253r. Seminar in Evolutionary Genetics](#)**

Catalog Number: 8104

*John R. Wakeley*

*Half course (fall term; repeated spring term). Tu., at 4. EXAM GROUP: 18*

Readings and discussion of primary literature in population and evolutionary genetics.

**[Biology 254. Genomic Imprinting and Parent-Offspring Conflict]**

Catalog Number: 9341

*David A. Haig*

*Half course (fall term). Tu., at 2:30. EXAM GROUP: 16, 17*

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 2001–02.

**[Biology 255. Nature and Regulation of Marine Ecosystems ]**

Catalog Number: 7753

*James J. McCarthy and guest lecturers*

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

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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Biology 19 and 118.

**[Biology 257r. Topics in Microbial Ecology]**

Catalog Number: 0621

*Ralph Mitchell*

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

A critical discussion of current research in microbial ecology.

*Note:* Expected to be given in 2000–01. A term paper and a seminar are required.

**[Biology 267. Topics in Symbiosis: Seminar]**

Catalog Number: 3859

*Colleen M. Cavanaugh*

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

Focuses on current issues in symbiosis. Emphasis on prokaryote-eukaryote associations and



comparative approaches to both mutualistic and parasitic interactions. Critical review and discussion of one or a few topics of interest to participants.

*Note:* Expected to be given in 2000–01.

**\*Biology 299r. Forest Practice and Research**

Catalog Number: 6128

*David R. Foster 7770*

*Half course (fall term; repeated spring term). Tu., Th., at 10. EXAM GROUP: 12*

Field and laboratory research into the history, biology, ecology, culture, and economic problems of local, regional, and world forests. Individual research projects.

*Note:* Open to students who satisfy the staff that they have had adequate training. Seminars, conferences, field and laboratory work at the Harvard Forest, Petersham, Massachusetts.

***Graduate Courses of Reading and Research***

**\*Biology 303. Theoretical Population Genetics**

Catalog Number: 4248

*John R. Wakeley 5680*

**\*Biology 304. Mycology**

Catalog Number: 4702

*Donald H. Pfister 4344 (on leave fall term)*

**\*Biology 305. The Fundamental Interconnectedness of All Things**

Catalog Number: 3647

*David A. Haig 1629*

**\*Biology 307. Biomechanics, Physiology and Musculoskeletal Biology**

Catalog Number: 2831

*Andrew A. Biewener 1446*

**\*Biology 309. Plant Anatomy and Morphology**

Catalog Number: 4772

*P. Barry Tomlinson 3712*

**\*Biology 311. Behavioral Evolution and Sexual Selection**

Catalog Number: 2061

*Kerry L. Shaw 1852*

**\*Biology 316. Plant Population Biology**

Catalog Number: 3863

*Otto T. Solbrig 3197*

**\*Biology 320. Biomechanics and Evolution of Vertebrates**

Catalog Number: 8915

*George Varick Lauder 2375*



**\*Biology 321. Paleontology and Macroevolutionary Theory**

Catalog Number: 5799

*Stephen J. Gould 1707*

**\*Biology 322. Functional Anatomy of the Vertebrates**

Catalog Number: 6365

*A. W. Crompton 1154 (on leave fall term)*

**\*Biology 323. Advanced Vertebrate Anatomy**

Catalog Number: 8188

*Farish A. Jenkins, Jr. 3558*

**\*Biology 324. Molecular Evolution**

Catalog Number: 2356

*Daniel L. Hartl 3278*

**\*Biology 325. Marine Biology**

Catalog Number: 4643

*Robert M. Woollacott 4135 (on leave spring term)*

**\*Biology 334. Behavioral Ecology**

Catalog Number: 8279

*Naomi E. Pierce 2889 (on leave fall term)*

**\*Biology 335. Ichthyology and Functional Anatomy of Fishes**

Catalog Number: 4640

*Karel F. Liem 3843*

**\*Biology 337. Plant Phylogeny**

Catalog Number: 0762

*Michael J. Donoghue 3277*

**\*Biology 339. Whole-Plant Physiology**

Catalog Number: 5214

*N. Michele Holbrook 1220*

**\*Biology 341. Coevolution**

Catalog Number: 2998

*Brian D. Farrell 1985*

**\*Biology 343. Microbial Ecology and Symbiosis**

Catalog Number: 1288

*Colleen M. Cavanaugh 2538*



**\*Biology 345. Biological Oceanography**

Catalog Number: 4676  
*James J. McCarthy 4343*

**\*Biology 348. Plant Ecology**

Catalog Number: 2885  
*Fakhri A. Bazzaz 7926*

**\*Biology 355. Evolutionary Developmental Biology**

Catalog Number: 9192  
*James Hanken 2719 (fall term only)*

**\*Biology 357. Population Biology and Mathematical Biology**

Catalog Number: 5392  
*William H. Bossert 1049*

**\*Biology 359. Paleobotany**

Catalog Number: 0248  
*Andrew H. Knoll 7425*

**\*Biology 361. Molecular Systematics and Development of Plants**

Catalog Number: 1985  
*David A. Baum 1218*

**\*Biology 387. Tropical Botany**

Catalog Number: 6715  
*Peter S. Ashton 6086*

**\*Biology 389. Population Biology and Evolution**

Catalog Number: 0680  
*Stephen R. Palumbi 2406*

**\*Biology 399 (formerly Biology 220). Topics in Organismic and Evolutionary Biology**

Catalog Number: 0764

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*Half course (spring term).*

Presents the research interests and experiences of members of the Department on integrative topics in the field. The specific topic and list of faculty participants varies from year to year.

*Note:* Required of all first-year graduate students in Organismic and Evolutionary Biology.



# Biological Sciences in Public Health

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Committee on Higher Degrees in Public Health*

Dyann F. Wirth, Professor of Immunology and Infectious Diseases (*Public Health*) (*Chair*)  
 Joseph D. Brain, Cecil K. and Phillip Drinker Professor of Environmental Physiology (*Public Health*)  
 John R. David, Professor of Medicine (*Medical School*) and Richard Pearson Strong Professor of Tropical Public Health (*Public Health*)  
 Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology  
 Myron E. Essex, Mary Woodard Lasker Professor of Health Sciences (*Public Health*)  
 Thomas O. Fox, Associate Professor of Neuroscience (*Medical School*)  
 J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences (*on leave spring term*)  
 John B. Little, James Stevens Simmons Professor of Radiobiology (*Public Health*)  
 Bjørn R. Olsen, Hersey Professor of Cell Biology and Professor of Oral Biology (*Medical School*)  
 Armen H. Tashjian, Jr., Professor of Toxicology in the Faculty of Public Health, *emeritus* (*Public Health*) and Professor of Biological Chemistry and Molecular Pharmacology (*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*)  
 Barry R. Bloom, Dean of the Faculty and Professor of Immunology & Infectious Diseases (*Public Health*)  
 Harriet A. Burge, Associate Professor of Environmental Microbiology (*Public Health*)  
 Barbara Burleigh, Assistant Professor of Immunology & Infectious Diseases (*Public Health*)  
 Hannia Campos, Assistant Professor of Nutrition (*Public Health*)  
 David Christiani, Professor of Medicine (*Medical School*)  
 Bruce F. Demple, Professor of Toxicology (*Public Health*)  
 Claire M. Doerschuk, Mark and Catherine Winkler Associate Professor of Physiology and Cell Biology (*Public Health*) and Associate Professor of Pathology (*Medical School*)  
 Timothy E. Ford, Assistant Professor of Environmental Microbiology (*Public Health*)  
 Jeffrey J. Fredberg, Professor of Bioengineering and Physiology (*Public Health*)  
 Laurie H. Glimcher, Professor of Medicine (*Medical School*) and Irene Heinz Given Professor of Immunology (*Public Health*)  
 Michael Grusby, Associate Professor of Molecular Immunology and Assistant Professor of Medicine (*Public Health*)  
 Donald A. Harn, Professor of Tropical Public Health (*Public Health*)  
 I-Cheng Ho, Assistant Professor of Immunology & Infectious Diseases (*Public Health*)



Phyllis J. Kanki, Associate Professor of Pathobiology (*Public Health*)  
 Karl Kelsey, Associate Professor of Occupational Medicine (*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*)  
 Igor Kramnik, Assistant Professor of Immunology (*Public Health*)  
 Arthur M.-E. Lee, Associate Professor of Molecular Biology (*Public Health*) and Associate Professor of Medicine (*Medical School*)  
 Catherine A. Lee, Silas Arnold Houghton Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Tun-Hou Lee, Associate Professor of Virology (*Medical School*)  
 Jeffrey Leiden, Professor of Molecular Pathology in Cardiovascular Diseases (*Public Health*) and Professor of Medicine (*Medical School*)  
 Carl G. Maki, Assistant Professor of Radiobiology (*Public Health*)  
 Karl Münger, Associate Professor of Pathology (*Medical School*)  
 Joseph D. Paulauskis, Associate Professor of Molecular Biology (*Public Health*)  
 Mark Perrella, Assistant Professor of Medicine (*Medical School*) and Assistant Professor in the Division of Biological Sciences (*Public Health*)  
 Willy F. Piessens, Professor of Tropical Public Health (*Public Health*) and Associate Professor of Medicine (*Medical School*)  
 Guy L. Reed III, Assistant Professor of Medicine (*Medical School*) and Assistant Professor of Immunology(*Public Health*)  
 Frank M. Sacks, Associate Professor of Medicine (*Medical School*) and Associate Professor in the Department of Nutrition (*Public Health*) (*Medical School*, *Public Health*)  
 Leona D. Samson, Professor of Toxicology (*Public Health*)  
 John C. Samuelson, Associate Professor of Tropical Public Health (*Public Health*) and Clinical Fellow in Pathology (*Medical School*)  
 Robert H. Schiestl, Associate Professor of Toxicology (*Public Health*)  
 Steven A. Shea, Assistant Professor in the Department of Environmental Health (*Public Health*) and Assistant Professor of Medicine (*Medical School*)  
 Stephanie A. Shore, Associate Professor of Physiology (*Public Health*)  
 Joseph G. Sodroski, Professor of Pathology *Medical School* and Professor of Cancer Biology (*Public Health*)  
 Ning Wang, Assistant Professor of Physiology and Cell Biology (*Public Health*)  
 Marianne Wessling-Resnick, Associate Professor of Nutrition (*Public Health*)  
 Dieter Wolf, Assistant Professor of Toxicology (*Public Health*)  
 Xiping Xu, Associate Professor of Occupational Epidemiology (*Public Health*) and Associate Professor of Medicine (*Medical School*)  
 Zhi-Min Yuan, Assistant Professor of Radiobiology (*Public Health*)

See other courses in the School of Public Health catalog.

***Primarily for Graduates***

**[BPH 201. Statistical Methods in Biology](#)**

Catalog Number: 7335 Enrollment: Limited to 20.



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*Half course (spring term). M., 3:30–5:20, Th., 10:30–12:20, plus laboratory to be arranged.*  
 Designed to familiarize students with the statistical methods used in laboratory research for design of experiments and statistical analysis of hypotheses. Topics include basic theory of probability and statistics, analysis of continuous and categorical data, ANOVA and multiple regression and nonparametric methods. Examples focus on statistical problems encountered in laboratory research.

*Note:* Offered jointly with the Medical School as BPH 725.0, and with the School of Public Health as DBB 207cd.

### **BPH 206. Advanced Respiratory Physiology**

Catalog Number: 1049

*James N. Butler*

*Half course (fall term). M., W., 9–10:20.*

Covers a broad range of topics in respiratory physiology including: lung structure, volume and flow mechanics, surfactant function, gas exchange, lung and chest wall interaction. Special topics may include pulmonary circulation, lung endocrine functions, airway physiology and pharmacology. Reviews classic concepts and presents some recent advances.

*Note:* Offered jointly with the School of Public Health as EH 223ab. Offered jointly with the Medical School as BPH 735.0.

*Prerequisite:* College-level physiology and EH 205ab or equivalent or signature of instructor indicating suitable background required.

### **BPH 207. Advanced Topics in Physiology**

Catalog Number: 2146

*Jeffrey J. Fredberg (Public Health) and Joseph D. Paulauskis (Public Health)*

*Half course (spring term). M., 10:30–12:20, W., 3:30–5:20.*

Focus on special topics in lung biology. Emphasis is on the fundamental physical basis and quantitative description of chemical, electrical, and mechanical signaling within the cell. Specific topics 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 225cd.

### **BPH 208. Human Physiology**

Catalog Number: 3627

*Robert B. Banzett (Medical School, Public Health) and members of the Department*

*Half course (fall term). M., W., 10:30–12:20.*

An intensive introduction to the function of the human organism. Emphasis is placed on the concept of homeostasis and on integrative aspects of physiology. Examples of pathophysiology will be used to emphasize certain concepts. This course is mainly a lecture-based introductory course intended for students who have not had college-level physiology. Course activities: Problem sets, exams, periodic required laboratories.

*Note:* To encourage students with no biology background to take the course, we provide ten hours of extra lectures in basic biological concepts concurrent with the first two weeks of class. Offered jointly with the Medical School as BPH 728.0 and with the School of Public Health as



EH 205ab.

*Prerequisite:* College level introductory biology or permission of the instructor is required.

### **BPH 210. Pathophysiology of Human Disease**

Catalog Number: 3078

*Lester Kobzik (Public Health)*

*Half course (spring term). M., F., 1:30–3:20.*

Surveys common and important human disease problems in the major organ systems. Emphasis on understanding the pathophysiologic basis of typical disease manifestations and the pathogenesis of the disease process at a cellular and molecular level. Relevant public health perspectives on the epidemiology or control of disease are also integrated.

*Note:* Offered jointly with the Medical School as BPH 729.0, and with the School of Public Health as DBE 208cd.

*Prerequisite:* College-level physiology, EH 205ab, or equivalent.

### **[BPH 211. Survey of Immunobiology]**

Catalog Number: 5053 Enrollment: Limited to 22.

*Michael Grusby (Public Health)*

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

Examines the anatomy and physiology of the immune system, fate of antigen, cell trafficking, cellular interactions, regulation of the immune response, and B- and T-cell recognition mechanisms.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the School of Public Health as CB 204ab (five credits).

### **[BPH 213. Molecular and Cellular Toxicology: Seminar]**

Catalog Number: 0932 Enrollment: Limited to 15

*Bruce F. Demple (Public Health)*

*Half course (spring term). M., W., 1:30–3:20.*

Examines key issues and approaches in modern toxicology, focused on emerging research at the molecular and cellular levels. Specific topics include genetic toxicology (DNA repair, aberrant recombination, genetic instability, effect of carcinogens on gene expression, etc.), pathology of the cell cycle, carcinogenesis (tumor promotion, molecular biology of tumor suppressors), molecular epidemiology, and risk analysis. This course focuses intensively on critical analysis of research papers.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as BPH 723.0 and the School of Public Health as CCB 250cd. Contact instructor at 432-3462.

*Prerequisite:* Courses in biochemistry, cell biology, and genetics.

### **BPH 215 (formerly BCMP 218). Principles of Toxicology**

Catalog Number: 5366

*Robert H. Schiestl (Public Health)*

*Half course (fall term). Tu., Th., 1:30–3:20.*

Introductory course emphasizing mechanisms of injury and clinical consequences following exposures to environmental and occupational chemicals. Actions are examined at the molecular,



cellular, organ, and organismal levels. Methods for detection and evaluating toxic effects of environmental and industrial chemicals are discussed.

*Note:* Offered jointly with the Medical School as BPH 713.0 and with the School of Public Health as CCB 204ab.

*Prerequisite:* Biochemistry and Physiology courses are recommended; may be taken concurrently.

### **[BPH 216. Immunology of Infectious Diseases]**

Catalog Number: 6938

*Donald A. Harn (Public Health)*

*Half course (spring term). Tu., 3:30–5:20.*

Presents the interactions of pathogens with the host immune system, from pathogen invasion to pathogenesis.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the School of Public Health as IMI 208cd (five credits).

### **\*BPH 219. Biological Sciences Seminars**

Catalog Number: 1152

*Michael Grusby (Public Health) and I-Cheng Ho (Public Health)*

*Half course (fall term). Tu., Th., 8:30–10:30 a.m.*

Faculty participating in the Biology and Public Health degree program 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. Students also participate in critical reading of “great papers in science” and are required to present this work to the class for discussion.

*Note:* Required for first-year students in the BPH program, with permission of the instructor. Offered jointly with the School of Public Health as DBS 205ab, and with the Medical School as BPH 736.0.

### **[BPH 220. Introduction to Cancer Biology: Radiation Biology, Gene Regulation and Therapy]**

Catalog Number: 1208

*John B. Little (Public Health)*

*Half course (fall term). M., F., 1:30–3:20.*

Provides an understanding of the genotoxic and carcinogenic effects of ionizing radiation. Topics include the induction and repair of DNA damage; the processes of cell killing, mutagenesis and cell transformation; effects on chromosomes, cell cycle and proliferation; radiation carcinogenesis; leukemogenesis and aging; mammalian radiation genetics; effects on the developing embryo and fetus.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as BPH 732.0, and with the School of Public Health as CCB 207ab.

*Prerequisite:* College-level course in biology.



**BPH 222. The Science of Human Nutrition**

Catalog Number: 0216

*Frank M. Sacks (Medical School, Public Health), Clifford Lo (Medical School) and members of the Faculty*

*Half course (spring term). Tu., Th., 1:30–3:20.*

Reviews the biochemistry of carbohydrates, fats, proteins, vitamins, and minerals in the context of human disease. 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:* NUT 201ab is strongly recommended; prior familiarity with nutrition and the health sciences is expected, as is a basic knowledge of biochemistry and human physiology. Offered jointly with the Medical School as BPH 733.0, and with the School of Public Health as NUT 202cd.

***Graduate Courses of Reading and Research***

**\*BPH 300r. Laboratory Rotations**

Catalog Number: 8441

*Dyann F. Wirth (Public Health) 2492*

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

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 300ab, DBS 300cd.

**\*BPH 302. Molecular Regulation of Thrombosis**

Catalog Number: 2731

*Guy L. Reed III (Public Health, Medical School) 1615*

**\*BPH 303. Transcriptional Regulation of Endothelial and Smooth Muscle Cell-Specific Genes**

Catalog Number: 2760

*Arthur M.-E. Lee (Public Health, Medical School) 1620*

**\*BPH 304. Study of Workplace Mutagen and Carcinogen Exposure**

Catalog Number: 2734

*Karl Kelsey (Public Health, Medical School) 2316*

**\*BPH 305. Molecular Mechanisms of Pulmonary Inflammation**

Catalog Number: 2676

*Joseph D. Paulauskis (Public Health) 1305*

**\*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 308. Genetic and Environmental Effects on Homologous and Illegitimate Recombination in Yeast, Human Cells, and Mice**

Catalog Number: 2735

*Robert H. Schiestl (Public Health) 3391*

**\*BPH 310. The Response of Bacterial, Yeast, and Mammalian Cells to DNA Damage**

Catalog Number: 2726

*Leona D. Samson (Public Health) 1068*

**\*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, Medical School) 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 318. Mechanisms Underlying the Response of Leukocytes During Inflammatory Lung Disease**

Catalog Number: 7047

*Claire M. Doerschuk (Public Health, Medical School) 2711*

**\*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 (Medical School, Public Health) 2276*

**\*BPH 324. Protein Phosphorylation and Gene Expression in Normal and Transformed Cells**

Catalog Number: 5915

*Raymond L. Erikson 7506*

**\*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 semester (7-8 weeks). Two seminars, which can be taken in different semesters, are required for half course credit.

**\*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 337. Environmental Pollution, Waterborne Disease, Pathogen Survival**

Catalog Number: 5110  
*Timothy E. Ford (Public Health) 1525*

**\*BPH 338. Sexual Differentiation of the Brain: Hormonal and Genetic Determinants**

Catalog Number: 4954  
*Thomas O. Fox (Medical School) 4542*

**\*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 (Medical School) 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 (on leave spring term)*

**\*BPH 344. Differentiation and Activation of Helper T Cells**

Catalog Number: 2319  
*I-Cheng Ho (Public Health) 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 347. Bacterial Pathogenesis, Virulence Gene Regulation, Salmonella Invasion**

Catalog Number: 0567

*Catherine A. Lee (Medical School) 3259*

**\*BPH 348. Human and Related Primate Retroviruses**

Catalog Number: 3024

*Tun-Hou Lee (Medical School) 2769*

**\*BPH 349. Transcriptional Regulation of Cardiovascular Development**

Catalog Number: 4817

*Jeffrey Leiden (Public Health, Medical School) 2771*

**\*BPH 350. Radiation Mutagenesis and Carcinogenesis; Genetic Instability**

Catalog Number: 9227

*John B. Little (Public Health) 1427*

**\*BPH 351. Stability and Ubiquitination of Cell Cycle Regulatory Proteins**

Catalog Number: 4657

*Carl G. Maki (Public Health) 2773*

**\*BPH 352. Regulation of Acute Inflammatory Responses by Signaling Molecules**

Catalog Number: 5578

*Joseph P. Mizgerd (Medical School) 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 (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 356. Immunology and Molecular Biology of Filarial Nematodes**

Catalog Number: 1435

*Willy F. Piessens (Public Health, Medical School) 2779*

**\*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 (Public Health, Medical School) 2785*

**\*BPH 362. Delineation of Biochemical and Molecular Basis of Stress Induced Responses**

Catalog Number: 4140

*Zhi-Min Yuan (Public Health) 9265*

## 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, Professor of Molecular and Cellular Biology and Professor of Physics

George M. Church, Professor of Genetics (*Medical School*)

Thomas E. Ellenberger, Associate Professor of Biological Chemistry and Molecular

Pharmacology (*Medical School*)

Mara Prentiss, Professor of Physics

Stuart L. Schreiber, Morris Loeb Professor of Chemistry and Chemical Biology (*on leave 1999-00*)

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

Gregory L. Verdine, Professor of Chemistry

Gerhard Wagner, Elkan Blout Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)Don C. Wiley, John L. Loeb Professor of Biochemistry and Biophysics, Tutor in Biochemical Sciences (*on leave fall term*)***Other Faculty Offering Instruction in Biophysics***John A. Assad, Assistant Professor of Neurobiology (*Medical School*)Frederick Ausubel, Professor of Genetics (*Medical School*)Stephen C. Blacklow, Assistant Professor of Pathology (*Medical School*)

William H. Bossert, David B. Arnold, Jr. Professor of Science

Daniel Branton, Higgins Research Professor of Biology

Lewis C. Cantley, Professor of Cell Biology (*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*)Bruce F. Demple, Professor of Toxicology (*Public Health*)

John E. Dowling, Harvard College Professor and the Maria Moors Cabot Professor of Natural Sciences

Michael J. Eck, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology

Christin A. Frederick, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)Walter Gilbert, Carl M. Loeb University Professor (*on leave spring term*)David E. Golan, Associate Professor of Medicine and Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)Edward E. Harlow, Professor of Genetics and American Cancer Society Research Professor of Molecular Genetics (*Medical School*)

Stephen C. Harrison, Higgins Professor of Biochemistry

J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences (*on leave spring term*)Tomas Kirchhausen, Associate Professor of Cell Biology (*Medical School*)

Nancy Kleckner, Professor of Biochemistry and Molecular Biology

Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)Stuart A. Lipton, Associate Professor of Surgery (Neuroscience) (*Medical School*)

Tom Maniatis, Thomas H. Lee Professor of Molecular and Cellular Biology

Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology



Matthew S. Meselson, Thomas Dudley Cabot Professor of the Natural Sciences  
 Keith W. Miller, Mallinckrodt Professor of Pharmacology (*Medical School*)  
 Timothy J. Mitchison, Professor of Cell Biology (*Medical School*)  
 Ernest G. Peralta, Professor of Molecular and Cellular Biology  
 Tom Rapoport, Professor of Cell Biology (*Medical School*)  
 Gary B. Ruvkun, Professor of Genetics (*Medical School*)  
 Bruce J. Schnapp, Associate Professor of Cell Biology (*Medical School*)  
 Brian Seed, Professor of Genetics (*Medical School*)  
 Pamela A. Silver, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Jack L. Strominger, Higgins Professor of Biochemistry  
 Jack Szostak, Professor of Genetics (*Medical School*)  
 James C. Wang, Mallinckrodt Professor of Biochemistry and Molecular Biology  
 George M. Whitesides, Mallinckrodt Professor of Chemistry  
 Gary I. Yellen, Professor of Neurobiology (*Medical School*)

Biophysics students should consult course listings from the departments of Biology, Chemistry, Physics, Molecular and Cellular Biology (formerly) Biochemistry and Molecular Biology, the Division of Engineering and Applied Sciences, and the Division of Medical Sciences.

***For Undergraduates and Graduates***

**[Biophysics 101. Genomics and Computational Biology](#)**

Catalog Number: 6896

*George M. Church (Medical School)*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course will assess the relationships between sequence, structure and function in complex biological networks as well as progress in realistic modeling of quantitative, comprehensive functional-genomics analyses. Topics will include algorithmic, statistical, database, and simulation approaches and practical applications to biotechnology, drug discovery and genetic engineering. Future opportunities and current limitations will be critically assessed. Problem sets and a course project will emphasize creative, hands-on analyses using these concepts.

*Note:* Course will be offered in alternate years.

*Prerequisite:* Basic understanding of molecular biology, statistics, and computers.

**[Biophysics 164r (formerly Biophysics 151r). Molecular Biophysics and Biophysical Chemistry: Simulation of Macromolecules]**

Catalog Number: 7317 Enrollment: Limited to 18.

*Eugene I. Shakhnovich and Oren M. Becker (Tel Aviv University)*

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

Introduction to the principles and methods used for the simulation of macromolecules of biological interest. Protein conformation and dynamics are emphasized. Empirical energy and molecular dynamics calculations as well as other approaches are described. Specific problems are discussed to illustrate the methodology. Examples include the cooperative mechanism of hemoglobin, protein folding predictions, the nature of reaction rate enhancement in enzyme catalysis, motional properties of proteins, simulations of free energy changes in mutations,



molecular recognition, and the properties of binding sites. The laboratory introduces students to molecular graphics and to simulation methodology. During reading period, each student carries out an original research project that makes use of the techniques.

*Note:* Expected to be given in 2000–01. Offered in alternate years. It is suggested that students enroll in Chemistry 164 when this course is bracketed. Cannot be taken for credit by students who have completed Chemistry 164.

*Prerequisite:* Biological Sciences 11 and one of the following: Chemistry 160, Biochemistry 61, Physics 143, or permission of instructor.

### *Cross-listed Courses*

[Biology 152. Population Genetics](#)

[Biology 154. Theoretical Population and Community Ecology](#)

[Chemistry 160. Physical Chemistry](#)

[Chemistry 170. Chemical Biology](#)

[Engineering Sciences 145. Introduction to Systems Analysis with Physiological Applications](#)

[Engineering Sciences 148. Bioelectric Signals and Their Processing in Neural Networks](#)

[[Engineering Sciences 149. Muscles, Reflexes, and Locomotion](#)]

[MCB 112. Structure and Function of Proteins and Nucleic Acids](#)

[\\*MCB 113. Principles of Genetic Analysis](#)

[MCB 121. Animal Genetic Systems](#)

[[MCB 125. Introduction to Biophysics](#)]

[MCB 129. Molecular Genetics of Neuronal Development](#)

[MCB 138. Function of Neural Systems](#)

[\\*MCB 155. Molecular Mechanisms of Gene Control](#)

[MCB 169. Molecular and Cellular Immunology](#)

[[MCB 170. Molecular Mechanisms of Signal Transduction](#) ]

[MCB 176. Membrane Function](#)

[MCB 177. Macromolecular Assemblies in Genetic Processes](#)

[Mathematics 115. Methods of Analysis and Applications](#)

### *Primarily for Graduates*

[Biophysics 242. Special Topics in Biophysics](#)

Catalog Number: 6011

*Members of the Committee*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Considers special topics in Biophysics. This year's focus will be selected topics in neuroscience.

### *Cross-listed Courses*

[Applied Mathematics 201. Complex Function Theory with Applications](#)

[[Applied Mathematics 202. Partial Differential and Integral Equations](#)]

[BCMP 201. Proteins: Structure, Function and Catalysis](#)

[[BCMP 228. Macromolecular Crystallography and NMR](#)]



[Cell Biology 201. Molecular Biology of the Cell](#)  
[Chemistry 240. Statistical Mechanics](#)  
[Chemistry 242. Quantum Mechanics](#)  
[Genetics 201. Principles of Genetics](#)  
[MCB 212. Topics in Biophysics](#)  
[\*MCB 225. Topics in Neurobiology]  
[Microbiology 208. Microbial and Molecular Genetics](#)

*Graduate Courses of Reading and Research*

**\*Biophysics 300r. Introduction to Laboratory Research**

Catalog Number: 7509

*James M. Hogle (Medical School) 2943 and staff*

*Half course (fall term; repeated spring term). M., W., F., 4:30–5:30.*

Introductory lectures by faculty members associated with the Biophysics program. Lectures are accompanied by three periods of instruction in laboratories of structural molecular biology, cell and membrane biophysics, molecular genetics and development, and physical biochemistry. Students normally spend each laboratory period in a different field. It is possible to undertake a suitable problem in mathematical biophysics in place of one of the three fields.

**\*Biophysics 302. Molecular Biology**

Catalog Number: 8772

*Walter Gilbert 1306 (on leave spring term)*

**\*Biophysics 303. NMR Studies of Protein Structure and Mobility**

Catalog Number: 6135

*Gerhard Wagner (Medical School) 2626*

**\*Biophysics 309. Motile Behavior of Bacteria**

Catalog Number: 2070

*Howard C. Berg 1377*

**\*Biophysics 310. Structural Molecular Biology**

Catalog Number: 7980

*Don C. Wiley 3598 (on leave fall term)*

**\*Biophysics 311. Digital Computer Applications in Biophysics**

Catalog Number: 7606

*William H. Bossert 1049*

**\*Biophysics 312. Single Channel Analysis in Mammalian Central Neurons**

Catalog Number: 6350

*Stuart A. Lipton (Medical School) 1346*



**\*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 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 (on leave spring term)*

**\*Biophysics 319. Molecular Immunology**

Catalog Number: 3500

*Jack L. Strominger 1193*

**\*Biophysics 321. Molecular and Cellular Genetics**

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 328. X-Ray Crystallographic Studies of Macromolecular Structures**

Catalog Number: 4010

*Christin A. Frederick (Medical School) 2614*

**\*Biophysics 329. Chromosome and Genome Organization**

Catalog Number: 4437

*George M. Church (Medical School) 1608*



**\*Biophysics 331. Macromolecular Assemblies in DNA Transactions**

Catalog Number: 6708

*James C. Wang 4870*

**\*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 and Development; Molecular Evolution**

Catalog Number: 3602

*Tom Maniatis 7231*

**\*Biophysics 337. Membrane Structure and Function**

Catalog Number: 1800

*Keith W. Miller (Medical School) 4124*

**\*Biophysics 338. Molecular Biology and Enzymology**

Catalog Number: 4755

*Bruce F. Demple (Public Health) 7853*

**\*Biophysics 340. Membrane Organization and Protein-Protein Interactions in the Membrane Skeleton**

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. Theory of Protein Folding and Design**

Catalog Number: 6947

*Eugene I. Shakhnovich 3147*

**\*Biophysics 344. Structure, Function and Evolution of RNA**

Catalog Number: 6277

*Jack Szostak (Medical School) 7096*

**\*Biophysics 346. Protein Secretion; DNA Gyrase Inhibitors**

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*

**\*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. Structures of DNA Repair Enzymes and Transcription Factors**

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. Protein-Nucleic Acid Interactions**

Catalog Number: 4420

*Gregory L. Verdine 1980*

**\*Biophysics 355. Intracellular Signal Transduction**

Catalog Number: 3035

*Stuart L. Schreiber 2166 (on leave 1999-00)*

**\*Biophysics 356. Structure and Activity of Bacterial Toxins**

Catalog Number: 6886

*R. John Collier (Medical School) 7972*

**\*Biophysics 357. Molecular Genetics and Molecular Evolution**

Catalog Number: 6925

*Matthew S. Meselson 1319*

**\*Biophysics 359. Vesicular Transport; Molecular Motors**

Catalog Number: 7012

*Bruce J. Schnapp (Medical School) 2948*



**\*Biophysics 360. Enzymatic Reaction and Signal Transduction Mechanisms**

Catalog Number: 7053

*Christopher T. Walsh (Medical School) 2036*

**\*Biophysics 361. Molecular Pharmacology; Biosurface Chemistry; Virology**

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. Structural Cell Biology**

Catalog Number: 5528

*Pamela A. Silver (Medical School) 1595*

Half Course

**\*Biophysics 365. Visual Processing in Primates**

Catalog Number: 8145

*John A. Assad (Medical School) 2985*

## Business Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Higher Degrees in Business Studies*

Pankaj Ghemawat, 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*



Pankaj Ghemawat, Professor of Business Administration (*Business School*) (*Chair*)  
Jay W. Lorsch, Louis E. Kirstein Professor of Human Relations (*Business School*)  
Michael E. Porter, C. Roland Christensen Professor of Business Administration (*Business School*)  
Richard S. Ruback, Willard Prescott Smith Professor of Corporate Finance  
Jeffrey G. Williamson, Laird Bell Professor of Economics (*ex officio*)

Students should consult with members of the Subcommittee about core courses in Business Economics.

***Subcommittee on the Degree of Doctor of Philosophy in Decision Sciences***

Stephen P. Bradley, Professor of Business Administration (*Business School*) (*Chair*)  
Arthur P. Dempster, Professor of Theoretical Statistics  
Yu-Chi Ho, T. Jefferson Coolidge Professor of Applied Mathematics and Gordon McKay Professor of Engineering  
Jay W. Lorsch, Louis E. Kirstein Professor of Human Relations (*Business School*)  
Peter P. Rogers, Gordon McKay Professor of Environmental Engineering

***Subcommittee on the Degree of Doctor of Philosophy in Information Technology and Management***

Members of the Subcommittee to be announced.

***Subcommittee on the Degree of Doctor of Philosophy in Organizational Behavior***

Aage B. Sørensen, Professor of Sociology (*Chair*)  
Daniel T. Gilbert, Professor of Psychology (*on leave 1999-00*)  
J. Richard Hackman, Cahners-Rabb Professor of Social and Organizational Psychology; Professor of Psychology  
Herminia M. Ibarra, Associate Professor of Business Administration (*Business School*)  
Jay W. Lorsch, Louis E. Kirstein Professor of Human Relations (*Business School*)  
Peter V. Marsden, Professor of Sociology  
Nitin Nohria, Associate Professor of Business Administration (*Business School*)

***Graduate Courses of Reading and Research***

**\*Business Studies 300. Direction of Doctoral Dissertations**

Catalog Number: 6863  
*Richard E. Caves 1414*



# Celtic Languages and Literatures

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Celtic Languages and Literatures*

Patrick K. Ford, Margaret Brooks Robinson Professor of Celtic Languages and Literatures  
(*Chair*)

Kathryn A. Chadbourne, Lecturer on Celtic Languages and Literatures (*spring term only*)

Heather F. Larson, Lecturer on Celtic Languages and Literatures, Associate of the Department of Celtic Languages and Literatures (*fall term only*)

Tomás Ó Cathasaigh, Henry L. Shattuck Professor of Irish Studies (*Director of Graduate Studies*)

### *Other Faculty Offering Instruction in the Department of Celtic Languages and Literatures*

Calvert Watkins, Victor S. Thomas Professor of Linguistics and the Classics

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

*Patrick K. Ford and 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 and Scotland

Catalog Number: 3966

*Heather F. Larson*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

An introduction to the oral literature of Scotland and Ireland. We will read hero-tales, work-songs, laments, prayers, charms, and ballads—placing them within the context of daily life, belief, and performance. Themes will include: understanding oral literature; the relationship of “art” and function; women’s folklore; and cross-cultural comparison.

*Note:* Expected to be omitted in 2000–01. Readings will be available in English translation.

#### Celtic 112. Performance and Medieval Celtic Literature

Catalog Number: 1078

*Heather F. Larson*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*



This course applies current folklore-based approaches to medieval texts from Ireland, Scotland, and Wales. We will study medieval descriptions of performance, and view texts through the lens of this context. We will also survey the history of the oral-literary debate in Celtic Studies.

Topics of special interest will include: the woman's voice and women's folklore genres; "scribes" as performers and the role of multiple scribes; reconstruction of music and musical instruments; issues of translation and presentation.

*Note:* Expected to be omitted in 2000–01. Readings will be available in English translation.

**[Celtic 114. Early Irish Historical Tales]**

Catalog Number: 0781

*Tomás Ó Cathasaigh*

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

Introduction to early Irish story-material about legendary and historical persons and events.

Attitudes to kingship and views of history in the tales will be explored.

*Note:* Expected to be given in 2000–01.

**Celtic 128. Introduction to Modern Welsh**

Catalog Number: 4148

*Patrick K. Ford and others*

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

Basic grammar, translation of simple contemporary Welsh writings, and practice of pronunciation and conversation.

*Note:* Expected to be omitted in 2000–01. It is suggested that this course be followed by Celtic 129r.

**Celtic 129r. Intermediate Modern Welsh**

Catalog Number: 4694

*Patrick K. Ford and others*

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

Further grammatical study, with continued pronunciation and conversation, and readings in contemporary Welsh literature.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Celtic 128 or permission of instructor.

**[Celtic 130. Introduction to Scottish Gaelic]**

Catalog Number: 1846

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

An introduction to the spoken and written language.

*Note:* Expected to be given in 2001–02. It is suggested that this course be followed by Celtic 131.

**[Celtic 131. Intermediate Scottish Gaelic]**

Catalog Number: 4542

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



A continuation of the fall term course.

*Note:* Expected to be given in 2001–02.

*Prerequisite:* Celtic 130 or equivalent.

### **Celtic 132. Introduction to Modern Irish**

Catalog Number: 6725

*Tomás Ó Cathasaigh and others*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Grammar and reading of simple prose texts. One class period per week is devoted to practice in pronunciation and conversation.

*Note:* It is suggested that this course be followed by Celtic 133r.

### **Celtic 133r. Intermediate Modern Irish**

Catalog Number: 6689

*Kathryn A. Chadbourne*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Extensive readings in prose and verse by modern Irish writers. Development of oral competence in a modern dialect.

*Prerequisite:* Celtic 132 or permission of instructor.

### **Celtic 138r. The Mabinogi**

Catalog Number: 6480

*Kathryn A. Chadbourne*

*Half course (spring term). M., W., (F.), at 2. EXAM GROUP: 7*

A study of the prose and literature of medieval Wales, focusing on the Four Branches, the early Arthurian tales and associated works. The class will consider the texts as folklore, as myth, and as literature, especially addressing the ways in which assumptions about genre affect the reading produced. Supplemental readings will address theoretical approaches to myth, folklore, and literature.

*Note:* Expected to be omitted in 2000–01. Knowledge of Welsh helpful but not required; all readings will be available in English translation.

### **Celtic 150. Celtic Paganism**

Catalog Number: 6589

*Patrick K. Ford*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

A survey of the evidence relevant 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. The second half of the term will be devoted to questions of the reconstruction of Celtic paganism in the early modern period and contemporary neopaganism. All materials read in translation.

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 3686.

### **[Celtic 160. Advanced Modern Irish]**

Catalog Number: 0704



*Tomás Ó Cathasaigh and others*

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

Reading, listening, and speaking, with grammatical study, geared to the interests and aptitudes of the participants.

*Note:* Expected to be given in 2000–01. 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

*Tomás Ó Cathasaigh and others*

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

Intensive study of selected topics in Modern Irish.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Celtic 160 or permission of instructor.

**[Celtic 167. Advanced Scottish Gaelic]**

Catalog Number: 4736

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

Reading, grammatical study, and practice in comprehension and speaking.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Celtic 131 or permission of instructor.

**[Celtic 182. Modern Welsh Literature]**

Catalog Number: 1653

*Patrick K. Ford*

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

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 2000–01. All works read in Welsh.

**[Celtic 184. Early Irish Literature]**

Catalog Number: 2150

*Tomás Ó Cathasaigh*

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

A survey of scholarly and critical work on *The Táin* together with a close reading of parts of Recension I.

*Note:* Expected to be given in 2001–02.

***Cross-listed Courses***

[Linguistics 158r. From Indo-European to Old Irish](#)

[\[Literature and Arts A-68. Poets and Poetry in the Celtic Literary Tradition\]](#)

[Literature and Arts C-20. The Hero of Irish Myth and Saga](#)



**Literature and Arts C-22. European Culture in the Latin Middle Ages**  
**Medieval Studies 101 (formerly History 2277). The Auxiliary Disciplines of Medieval**  
**History: Proseminar**  
**Scandinavian 200br. Old Norse Literature: Edda and Saga**

*Primarily for Graduates*

**Celtic 200. Introduction to Old Irish**

Catalog Number: 8266

*Tomás Ó Cathasaigh*

*Half course (fall term). M., W., F., at 3. EXAM GROUP: 8*

An introduction to the language of the 8th and 9th centuries, with elementary readings in prose texts.

*Note:* Expected to be omitted in 2000–01. 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., W., F., at 3. EXAM GROUP: 8*

Further grammatical study, with continued reading of saga texts.

*Note:* Expected to be omitted in 2000–01.

*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). Hours to be arranged.*

Readings in *Early Irish Lyrics*.

*Note:* Expected to be given in 2000–01.

*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). Hours to be arranged.*

A reading of the early version of *The Expulsion of the Déisi*.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Celtic 200 or permission of the instructor.

**Celtic 208. Early Irish Society**

Catalog Number: 1359

*Tomás Ó Cathasaigh*

*Half course (fall term). W., 11–1. EXAM GROUP: 4, 5*

The course is concerned with the institutional and conceptual framework of early Irish life. The evidence of the laws will be considered in translation, and the literature will be taken into



account.

*Note:* Expected to be omitted in 2000–01.

**[Celtic 225a. Introduction to Middle Welsh]**

Catalog Number: 3960

*Patrick K. Ford*

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

Introduction to the language, leading to the reading of Middle Welsh prose texts.

*Note:* Expected to be given in 2000–01. It is suggested that this course be followed by Celtic 225b.

**[Celtic 225b. Continuing Middle Welsh]**

Catalog Number: 4167

*Patrick K. Ford*

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

Further grammatical studies with continued readings of Middle Welsh prose and poetry.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Celtic 225a or permission of instructor.

**Celtic 226r. Readings in Middle Welsh**

Catalog Number: 2796

*Patrick K. Ford*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Readings in the poems of Dafydd ap Gwilym.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Celtic 225b or permission of the instructor.

**[Celtic 227. Welsh Bardic Poetry: Seminar]**

Catalog Number: 2580

*Patrick K. Ford*

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

Selected readings from the Poets of the Princes, with special attention to the historical development of the genre, the social organization of poets, and the bardic grammars.

*Note:* Expected to be given in 2001–02.

*Prerequisite:* Knowledge of Welsh or permission of the instructor.

**Celtic 230r. Sources for Medieval Welsh Culture and Society**

Catalog Number: 3511

*Patrick K. Ford*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Readings in the chronicle of Elis Gruffydd, with special attention to the reign of Llywelyn Fawr.

Ancillary sources, such as the Welsh *Brutiau* and genealogies, may be used as well.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Knowledge of Middle Welsh or permission of the instructor.

***Graduate Courses of Reading and Research***



**\*Celtic 300. Reading and Research**

Catalog Number: 5614

*Patrick K. Ford 2921, Tomás Ó Cathasaigh 1224, and Calvert Watkins 2553*

**\*Celtic 305. Preparation of Doctoral Dissertation**

Catalog Number: 0375

*Patrick K. Ford 2921, Tomás Ó Cathasaigh 1224, and Calvert Watkins 2553*

## Chemical Physics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on the Degree of Doctor of Philosophy in Chemical Physics*

William Klemperer, Erving Professor of Chemistry (*Chair*)

John M. Doyle, John L. Loeb Associate Professor of the Natural Sciences

Roy G. Gordon, Thomas Dudley Cabot Professor of Chemistry

Eric J. Heller, Professor of Chemistry and Physics (*on leave fall term*)

Dudley R. Herschbach, Frank B. Baird, Jr. Professor of Science

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

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 Ph.D. 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.

#### *Other Faculty Offering Instruction in Chemical Physics*

Philip A. Anfinrud, Associate Professor of Chemistry

Alexander Dalgarno, Phillips Professor of Astronomy

Cynthia M. Friend, Theodore William Richards Professor of Chemistry

Martin Karplus, Theodore William Richards Professor of Chemistry

Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry

Eric Mazur, Harvard College Professor, 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, Professor of Astronomy and Applied Physics (*on leave 1999-00*)  
Steven C. Wofsy, Abbot Lawrence Rotch Professor of Atmospheric and Environmental Science,  
Associate of the Harvard Forest

## Chemistry and Chemical Biology

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Chemistry and Chemical Biology*

James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry (*Chair*)  
Andrew R. Barron, Associate Professor of Chemistry  
Elias J. Corey, Sheldon Emery Professor of Organic Chemistry  
James E. Davis, Senior Lecturer on Chemistry and Chemical Biology and on Molecular and Cellular Biology (*Head Tutor*)  
David A. Evans, Abbott and James Lawrence Professor of Chemistry  
Bretislav Friedrich, Senior Research Fellow in Chemistry and Chemical Biology, Lecturer on Chemistry and Chemical Biology  
Cynthia M. Friend, Theodore William Richards Professor of Chemistry  
Roy G. Gordon, Thomas Dudley Cabot Professor of Chemistry  
Eric J. Heller, Professor of Chemistry and Physics (*on leave fall term*)  
Dudley R. Herschbach, Frank B. Baird, Jr. Professor of Science  
Richard H. Holm, Higgins Professor of Chemistry ( )  
Eric N. Jacobsen, Harvard College Professor and Professor of Chemistry  
William Klemperer, Erving Professor of Chemistry  
Jeremy R. Knowles, Amory Houghton Professor of Chemistry and Biochemistry and Dean of the Faculty of Arts and Sciences  
Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry  
David R. Liu, Assistant Professor of Chemistry and Chemical Biology  
Andrew G. Myers, Professor of Chemistry and Chemical Biology  
Hongkun Park, Assistant Professor of Chemistry and Chemical Biology  
David R. Reichman, Assistant Professor of Chemistry and Chemical Biology  
Stuart L. Schreiber, Morris Loeb Professor of Chemistry and Chemical Biology (*on leave 1999-00*)  
Matthew D. Shair, Assistant Professor of Chemistry and Chemical Biology  
Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology  
Richard J. Staples, Lecturer on Chemistry and Chemical Biology  
Gregory L. Verdine, Professor of Chemistry



George M. Whitesides, Mallinckrodt Professor of Chemistry  
Xiaoliang Sunney Xie, Professor of Chemistry

### ***Affiliates of the Department***

Stephen C. Harrison, Higgins Professor of Biochemistry  
David R. Nelson, Mallinckrodt Professor of Physics and Professor of Applied Physics ( )  
Don C. Wiley, John L. Loeb Professor of Biochemistry and Biophysics, Tutor in Biochemical Sciences (*on leave fall term*)

### ***Other Faculty Offering Instruction in the Department of Chemistry and Chemical Biology***

Oren M. Becker, Visiting Assistant Professor of Chemistry (*Tel Aviv University*) (*fall term only*)  
Claude Wintner, Visiting Professor of Chemistry (*Haverford College*)

Depending on their prior preparation, students will choose one of three possible entries to studies in this Department. Students with an average or weak background in chemistry should enroll in Chemistry 5 and 7; students with a strong background in chemistry should enroll in Chemistry 10; students with outstanding chemical preparation may enroll at once in Chemistry 17 or 20. Most well prepared students who wish to pursue honors level concentration in chemistry or closely allied fields will elect the (10)+20+30+40+135 track. Others who start with 5+7+17+27 may join the other track by taking 135 and 40. Most students of life sciences, especially those preparing for medical school, will take 5+7 or 10 followed by 17 and 27. 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. The Science A Core requirement may be satisfied by taking any one of Chemistry 5, 7, 10, 17, or 20.

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 Head Tutor's Office, Science Center 114.

#### **[Chemistry 5. Introduction to Principles of Chemistry](#)**

Catalog Number: 7171

*James E. Davis*

*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 and molecules; chemical reactions and



stoichiometry; properties of gases, liquids and solutions; phase transitions, chemical equilibrium; acid/base and solubility equilibria, energy relationships in chemistry; thermodynamics and electrochemistry.

*Note:* Chemistry 5–7 is the mainstream general chemistry sequence for students with typical high school chemistry backgrounds (one year) or for students with no previous study of chemistry. 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 Ar or Math Xa before attempting Chemistry 5. Students with very strong high school chemistry backgrounds may enroll instead in Chemistry 10, 17, or 20; see those course descriptions for details.

### **Chemistry 7. Principles of Chemistry**

Catalog Number: 5118

*Roy G. Gordon and Charles M. Lieber*

*Half course (spring term). M., W., F., at 9, and three hours a week of laboratory and discussion.*

**EXAM GROUP: 2**

Rates and mechanisms of chemical reactions; elements of nuclear physics and chemistry; quantum mechanics of light and particles, including the quantum structure of the periodic table, chemical bonding and photochemistry; coordination chemistry; structure and bonding in solids; selected topics from organic, inorganic and polymer chemistry with an emphasis on the relationship of structure properties.

*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 10. Accelerated Course: Foundations of Chemistry**

Catalog Number: 1376

*Dudley R. Herschbach and Eugene I. Shakhnovich*

*Half course (fall term). Lectures M., W., F., at 9, discussion section, and laboratory work averaging four hours a week, to be arranged. EXAM GROUP: 2*

Physical principles in chemistry: atomic and molecular structure, thermodynamics, and chemical kinetics. Applications to reaction equilibria and mechanisms; electrochemistry; photochemistry; environmental chemistry, life sciences and materials chemistry; selected commonplace, exotic, and poetic phenomena. Laboratory work stresses the principles and techniques of quantitative chemistry.

*Note:* 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 10, students must obtain a satisfactory score on the Harvard Chemistry Placement Examination, given during 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 10 may not be counted toward a degree in addition to Chemistry 5 or 7.

### **Chemistry 17. Principles of Organic Chemistry**

Catalog Number: 5085

*Claude Wintner (Haverford College)*



*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. 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.

*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, or 10. Others may enter only by permission of the instructor.

### **Chemistry 20. Organic Chemistry**

Catalog Number: 0876

*Gregory L. Verdine*

*Half course (spring term). Lectures, M., W., F., at 9, and a discussion section to be arranged.*

*EXAM GROUP: 2*

An introduction to structure, bonding, and mechanism of organic reactions; chemical transformation of the common functional groups in aliphatic and aromatic compounds; synthesis; determination of structure; 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.

*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, 9, or 10. 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*

Sequel to Chemistry 17. Organic chemical principles of molecular science that govern the processes occurring in living systems are illustrated with examples drawn from biochemistry, cell biology, and medicine. The course deals with generalities of organic chemical reactivity



(reaction mechanisms, structure-reactivity and structure-property relationships), with matters specifically relevant to the life sciences (chemistry of proteins, nucleic acids, natural products, cofactors, signal transduction), and with applications of chemical biology in medicine and biotechnology (drug design and mechanism, metabolism). It requires an understanding of organic reactions and their mechanisms, with considerable focus on “arrow pushing”.

*Note:* Chemistry 27 and 30 may both be taken for degree credit. See note for Chemistry 17.

*Prerequisite:* Chemistry 17; Chemistry 30; or Chemistry 20 with permission of the instructor.

### **Chemistry 30. Organic Chemistry**

Catalog Number: 6587

*Eric N. Jacobsen*

*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 including reactions involving carbanions, carbonium ions, carbenes and free radicals; and an introduction to biologically important classes of compounds including carbohydrates, amino acids, peptides, nucleic acids and other heterocyclic compounds. Laboratory: an introduction to the practice of organic chemistry and the identification of unknown compounds.

*Note:* Chemistry 27 and 30 may both be taken for degree credit. See note for Chemistry 17.

*Prerequisite:* Chemistry 20 or Chemistry 27.

### **Chemistry 40. Inorganic Chemistry**

Catalog Number: 8201

*Cynthia M. Friend and Richard H. Holm*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

An introduction to basic concepts of inorganic chemistry. Topics include synthesis, bonding, thermodynamics, stereochemistry, and reactivity of inorganic compounds of the main group and the transition elements.

*Prerequisite:* Chemistry 17 or 20.

### **\*Chemistry 91r. Introduction to Research**

Catalog Number: 4366

*James E. Davis 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 Head Tutor in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head, James E. Davis, and Dr. Davis' signature must appear on each student's study card.

### **\*Chemistry 98r (formerly Chemistry 98hf). Introduction to Research—Junior Year**

Catalog Number: 3124

*James E. Davis 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 approval 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 Head Tutor in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head, James E. Davis, and Dr. Davis' signature must appear on each student's study card.

**\*Chemistry 99r (formerly Chemistry 99). Tutorial — Senior Year**

Catalog Number: 4508

*James E. Davis 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. Written permission of the research adviser must be filed at the office of the Head Tutor in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head, James E. Davis, and Dr. Davis' signature must appear on each student's study card.

***Cross-listed Courses***

**Biological Sciences 10. Introductory Molecular Biology**

**Biological Sciences 11. Basic Principles of Biochemistry and Cell Biology**

**Earth and Planetary Sciences 107. Environmental Geochemistry**

**MCB 61. Physical Biochemistry**

**MCB 112. Structure and Function of Proteins and Nucleic Acids**

**MCB 176. Membrane Function**

***For Undergraduates and Graduates***

**Chemistry 105. Mechanisms of Organic Reactions**

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. Reaction mechanisms, stereochemistry, reactive intermediates, homogeneous and heterogeneous catalysis, structure-reactivity relations, influence of solvents on reactivity.

*Prerequisite:* Chemistry 5 and 7, or 10; and Chemistry 20 and 30 with a grade of B- or better. MCB 61 highly recommended.

**Chemistry 115. Advanced Organic Chemistry: Synthesis of Complex Molecules**

Catalog Number: 0480



*Andrew G. Myers*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

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 135. Experimental Synthetic Chemistry**

Catalog Number: 3406 Enrollment: Preference given to concentrators in Chemistry, Biochemical Sciences, and Biology, in that order.

*Garry Procter (University of Salford)*

*Half course (spring term). Lectures M., at 1, and laboratory, eight to nine hours a week, Tu., 2–10 p.m., W., 1–9 p.m., or Th., 2–10 p.m. EXAM GROUP: 6*

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:* 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 150. Inorganic Chemistry II. The Transition Elements**

Catalog Number: 6491

*Richard H. Holm*

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

An introduction to the fundamental chemistry of the transition elements. Topics include synthesis, electronic structure, stereochemistry, substitution and electron-transfer reactions, organometallic chemistry, catalysis, and bioinorganic chemistry.

*Prerequisite:* Chemistry 40 or permission of the instructor.

### **[Chemistry 151. Advanced Inorganic Chemistry: A Physical Approach]**

Catalog Number: 4343

*Richard H. Holm*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 13, 14*

A physical approach to inorganic compounds, mainly of the transition elements including bonding, stereochemistry, and electronic properties with use of symmetry and elementary group theory.

*Note:* Expected to be given in 2000–01.

### **[Chemistry 153. Organotransition Metal Chemistry]**

Catalog Number: 1848

*Eric N. Jacobsen*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 10, 11*

An introduction to organotransition metal chemistry. Topics include organometallic reaction



mechanisms and the application of transition metal complexes in organic synthesis and in homogeneous catalysis.

*Note:* Expected to be given in 2000–01. Intended primarily for graduate students and advanced undergraduates in chemistry.

*Prerequisite:* Chemistry 30 or equivalent, and Chemistry 40 or equivalent. Concurrent enrollment in Chemistry 115 is recommended.

### **Chemistry 154. Crystal Symmetry, Diffraction, and Structure Analysis**

Catalog Number: 8873

*Richard J. Staples*

*Half course (spring term). M., W., F., at 2; laboratory one afternoon per week. EXAM GROUP: 7*

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.

*Prerequisite:* Familiarity with atomic structure, basic symmetry principles, linear algebra, and electromagnetic waves.

### **[Chemistry 157. Biologically Related Inorganic Chemistry ]**

Catalog Number: 6244

*Richard H. Holm*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 13, 14*

The chemistry of metal ions and metal clusters in metalloproteins, with emphasis on structure, function, and reactivity; synthetic analogue chemistry related to native metal sites. The course may be conducted largely in a seminar format with extensive student participation.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Chemistry 150 or permission of the instructor.

### **Chemistry 158. Materials Chemistry**

Catalog Number: 7504

*Charles M. Lieber*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

An introduction to inorganic and organic materials. Topics include: structure of crystalline solids; electronic structure and conduction in materials; crystal chemistry; synthesis of bulk, thin film, and nanoscale materials; structure-property relationships, including superconductivity, magnetism and giant magneto resistance, nonlinear optical materials, mesoporous structures, and nanostructures.

*Note:* Primarily intended for advanced undergraduates and graduates.

*Prerequisite:* Chemistry 40 or equivalent.

### **Chemistry 160. Physical Chemistry**

Catalog Number: 3420

*Cynthia M. Friend*

*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 10 or equivalent.

### **Chemistry 161. Statistical Thermodynamics**

Catalog Number: 3575

*David R. Reichman*

*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.

*Prerequisite:* Chemistry 160 and Applied Mathematics 21a, or equivalent.

### **Chemistry 162. Molecular Spectroscopy**

Catalog Number: 0924

*William Klemperer and Xiaoliang Sunney Xie*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Modern molecular spectroscopy applied to the study of the structure and dynamic of gas phase and condensed phase systems. Topics include electronic and vibrational energy levels of polyatomic molecules, optical selection rules and time domain response. The fundamental principles will be exemplified by various spectroscopic approaches, such as absorption, fluorescence, scattering, nonlinear interaction and photochemistry. Applications to chemical and biological systems will be discussed.

*Prerequisite:* Chemistry 160 and 161 or equivalent.

### **Chemistry 164r. Molecular Biophysics and Biophysical Chemistry: Simulation of Macromolecules**

Catalog Number: 5588

*Oren M. Becker (Tel Aviv University)*

*Half course (fall term). M., W., (F.), 1–3. EXAM GROUP: 6, 7*

Introduction to the principles and methods used for the simulation of macromolecules of biological interest. Protein conformation and dynamics are emphasized. Empirical energy and molecular dynamics calculations as well as other approaches are described. Specific problems are discussed to illustrate the methodology. Examples include the cooperative mechanisms of hemoglobin, protein folding predictions, the nature of reaction rate enhancement in enzyme catalysis, motional properties of proteins, simulations of free energy changes in mutations, molecular recognition, and the properties of binding sites. The laboratory introduces students to molecular graphics and to simulation methodology. During reading period, each student carries out an original research project that makes use of these techniques.

*Note:* It is suggested that students enroll in Biophysics 164 when this course is bracketed. Cannot be taken for credit by students who have completed Biophysics 164r.

*Prerequisite:* Biological Sciences 11 and one of the following: Chemistry 160, Biochemistry 61, Physics 143, or permission of instructor.



### **Chemistry 165. Experimental Physical Chemistry**

Catalog Number: 0667

*Bretislav Friedrich*

*Half course (spring term). Lectures: F., 1–2:30; laboratories M., or Tu., 1–5. EXAM GROUP: 6, 7*

The course provides an introduction to the methods and techniques used in current physical chemistry research laboratories. Seven out of the total of ten laboratory assignments are experiments that will be conducted directly in the Research Groups of the Chemistry Department. These involve: molecular beams; mass spectrometry; Fourier transform infrared and nuclear magnetic resonance spectroscopies; laser ablation; laser spectroscopy; scanning tunneling and atomic force microscopy; kinetics. Computer-based methods of data acquisition and analysis will be used throughout.

*Note:* Recommended as an efficient preparation for research in experimental physical chemistry/chemical physics and related sciences.

*Prerequisite:* Chemistry 160 or Physics 143a

### **Chemistry 167 (formerly Chemistry 267). Surface and Interfacial Phenomena**

Catalog Number: 7480

*Cynthia M. Friend*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

General principles governing surface and interfacial phenomena are developed using treatment of surface electronic and geometric structure as a foundation. The course will treat both theoretical and experimental tools for the investigation of surface structure. Selected spectroscopic techniques will also be treated, with emphasis on surface phenomena. The latter part of the course will develop principles of adsorption, reaction, and growth phenomena illustrated through current literature topics.

*Note:* Primarily for graduates and advanced undergraduates in Chemistry, Physics, and Applied Sciences.

*Prerequisite:* Chemistry 160 or equivalent.

### **Chemistry 170. Chemical Biology**

Catalog Number: 7754

*David R. Liu*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Structure of macromolecules and relationship of structure to biological function; receptor-ligand interactions in extracellular and intracellular signaling; recognition and catalysis in protein-DNA interactions; macromolecular assembly. Lectures are supplemented with problem sets, including computational exercises on computer workstations, available both in Cambridge and at the Medical School.

*Note:* Given in alternate years.

*Prerequisite:* A strong foundation in physical and organic chemistry; introductory level biochemistry.

### ***Cross-listed Courses***

**[Biophysics 164r (formerly Biophysics 151r). Molecular Biophysics and Biophysical Chemistry: Simulation of Macromolecules]**

*Primarily for Graduates*

**\*Chemistry 206. Exercises in Advanced Organic Mechanisms**

Catalog Number: 1063

*David A. Evans*

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

Extensive practice in mechanisms and “electron pushing” designed to give familiarity with major classes of organic, organometallic, and biological reactions.

*Prerequisite:* A full-year course in mechanistic chemistry, grade of A in Chemistry 105, or permission of instructor.

**Chemistry 240. Statistical Mechanics**

Catalog Number: 5215

*Eugene I. Shakhnovich*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Equilibrium and nonequilibrium statistical mechanics, with a strong emphasis on interacting systems, including the thermodynamics and structure of gases, liquids, and crystals, critical phenomena, and the theory of transport processes.

*Prerequisite:* Chemistry 160 and 161, or permission of instructor.

**Chemistry 241. Chemical Kinetics**

Catalog Number: 6976

*Dudley R. Herschbach*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Theory of bimolecular gas phase reactions, success of those theories when applied to reactions of free radicals, unimolecular and thermomolecular rate theories, thermochemistry, energy transfer and recent advances in molecular beam and laser chemistry.

*Note:* Given in alternate years.

**Chemistry 242. Quantum Mechanics**

Catalog Number: 2971

*William Klemperer and Hongkun Park*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

The quantum mechanical description of electrons in molecules. Hartree-Fock theory and methods for treating electron correlation, including configuration interaction, perturbation and density functional methods, and their implementation on computers.

*Prerequisite:* Chemistry 160 or Physics 143, Physics 11 or 12, and Applied Mathematics 105a and 105b, or Mathematics 21, or equivalent.

**Chemistry 243. Time-Dependent Quantum Mechanics**

Catalog Number: 0566

*Eric J. Heller*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*



Treatment of time-dependent interactions, for bound, quasi-stationary, and scattering states.

Applications to molecular spectroscopy and collision processes.

*Note:* Expected to be omitted in 2000–01. Given in alternate years.

*Prerequisite:* Chemistry 242.

**Chemistry 244. Quantum Chemistry**

Catalog Number: 8295

*Roy G. Gordon*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Quantum mechanics applied to molecules and solids. Hartree-Fock, configuration-interaction, perturbation, coupled cluster, density functional, Monte-Carlo and semi-empirical theories. Use of computer programs for these methods.

*Prerequisite:* Chemistry 242.

**[Chemistry 248. Special Topics in Physical Chemistry]**

Catalog Number: 0587

*William Klemperer*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 13, 14*

Topics of current interest, to be announced.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Chemistry 160 and 161 or equivalent.

***Cross-listed Courses***

**Earth and Planetary Sciences 200. Atmospheric Chemistry and Physics**

**Earth and Planetary Sciences 202. Introduction to the Dynamics of Atmospheres and Oceans**

**[Engineering Sciences 264. Chemistry of Natural and Polluted Waters]**

***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. Reading**

Catalog Number: 6307

*Members of the Department*

Individual work under the supervision of members of the Department.

**\*Chemistry 301. Inorganic Chemistry**

Catalog Number: 3748

*Richard H. Holm 7015*

**\*Chemistry 302. Organometallic Chemistry**

Catalog Number: 1413

*Eric N. Jacobsen 1040*



**\*Chemistry 303. Organic Chemistry**

Catalog Number: 1043

*David A. Evans 7774*

**\*Chemistry 307. Organic Chemistry**

Catalog Number: 5101

*Elias J. Corey 1369*

**\*Chemistry 311. Physical Chemistry**

Catalog Number: 2640

*Charles M. Lieber 3102*

**\*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 (on leave 1999-00)*

**\*Chemistry 325. Physical Chemistry**

Catalog Number: 8530

*Cynthia M. Friend 7446*

**\*Chemistry 327. Theoretical Chemistry**

Catalog Number: 6064

*Martin Karplus 1361*

**\*Chemistry 330. Physical Chemistry and Chemical Physics**

Catalog Number: 4327

*Dudley R. Herschbach 1381*

**\*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 377. Physical Chemistry, Including Molecular Spectroscopy**

Catalog Number: 5506

*William Klemperer 1391*

**\*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*

**\*Chemistry 392. Physical Chemistry**

Catalog Number: 6980

*David R. Reichman 2569*

## The Classics

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



### ***Faculty of the Department of the Classics***

Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature (*Chair*)  
 Margaret Alexiou, George Seferis Professor of Modern Greek Studies and Professor of Comparative Literature (*on leave spring term*)  
 Kathleen M. Coleman, Professor of Latin  
 John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature (*Director of Graduate Studies*)  
 Albert Henrichs, Eliot Professor of Greek Literature  
 Christopher P. Jones, George Martin Lane Professor of the Classics and of History  
 Ivy Livingston, Assistant Professor of the Classics (*Director of Undergraduate Studies*)  
 Nino Luraghi, Assistant Professor of the Classics, Assistant Professor in the Classics  
 David Gordon Mitten, James Loeb Professor of Classical Art and Archaeology  
 Gloria Ferrari Pinney, Professor of Classical Archaeology and Art (*on leave spring term*)  
 Eric W. Robinson, Assistant Professor of the Classics and of History  
 Panagiotis Roilos, Visiting Assistant Professor in Modern Greek  
 Mark Schiefsky, Assistant Professor of the Classics (*on leave fall term*)  
 Charles P. Segal, Walter C. Klein Professor of the Classics  
 Sarolta Takács, Associate Professor of the Classics  
 R. J. Tarrant, Harvard College Professor and Pope Professor of the Latin Language and Literature  
 Richard F. Thomas, Professor of Greek and Latin  
 Calvert Watkins, Victor S. Thomas Professor of Linguistics and the Classics  
 Jan Ziolkowski, Professor of Medieval Latin and Comparative Literature

### ***Other Faculty Offering Instruction in the Department of the Classics***

Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art (*on leave fall term*)  
 John E. Murdoch, Professor of the History of Science

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 (<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

*Ivy Livingston and members of the Department*

*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 97r. Tutorial — Sophomore Year**

Catalog Number: 5175

*Ivy Livingston and assistants*

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

Weekly meetings of small groups of students with a tutor for the detailed reading and translation of selected texts; in addition, monthly colloquia, on the various disciplines within the field of Classics.

*Note:* May be counted for concentration.

**\*Classics 98r. Tutorial — Junior Year**

Catalog Number: 6100

*Ivy Livingston and members of the Department*

*Half course (fall term; repeated spring term). Fall: Tu., 1–4. Spring: Th., 1–4. EXAM GROUP: Spring: 15, 16, 17*

Tutorial instruction for course credit (in addition to ordinary tutorial instruction) is open to concentrators in their junior year whose applications for such instruction have been approved by the Director of Undergraduate Studies.

*Note:* May be counted for concentration.

**\*Classics 99. Tutorial — Senior Year**

Catalog Number: 2350

*Ivy Livingston and members of the Department*

*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.

*Cross-listed Courses*

[Celtic 205r. Readings in Early Irish Prose]

**Classics 140. The Fall of the Roman Republic**

[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]

**\*Comparative Literature 287r. Selected Topics in Poetics and Rhetoric: Seminar**

[History 1063. Intolerance and Persecution in the Roman Empire: Conference Course]

[History 1064. The 3rd Century: Texts and Problems: Conference Course]

**History 1071. Introduction to Greek History**

**History 1085. The Roman Empire, Augustus to Constantine**

[History 1088. The Mediterranean, Alexander to Antony]

[Literature and Arts A-68. Poets and Poetry in the Celtic Literary Tradition]



[Literature and Arts B-21. The Images of Alexander the Great](#)  
[Literature and Arts C-14. The Concept of the Hero in Greek Civilization](#)  
[Literature and Arts C-22. European Culture in the Latin Middle Ages](#)  
[Literature and Arts C-61. The Rome of Augustus](#)  
[Medieval Studies 101 \(formerly History 2277\). The Auxiliary Disciplines of Medieval History: Proseminar](#)  
[Medieval Studies 105. Production of Manuscripts and Printed Books Before 1600]  
[Medieval Studies 117. Constitutional and Legal History of Medieval England]  
[Medieval Studies 119. Constitutional and Legal History of Medieval Continental Europe](#)  
[Philosophy 102. Aristotle](#)  
[\\*Philosophy 107. Plato's Republic: Proseminar](#)  
[\\*Philosophy 201. Plato on Falsehood and Not-Being: Seminar](#)

*For Undergraduates and Graduates*

[Classics 140. The Fall of the Roman Republic](#)

Catalog Number: 9989

*Eric W. Robinson*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

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 142. The Western Greeks](#)

Catalog Number: 9356

*Nino Luraghi*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

The history and culture of the Greek cities in Sicily and Southern Italy (*Magna Graecia*) from their origins to the Roman conquest. Particular emphasis on the use of archaeological excavations and monuments as sources for cultural, social and economic history.

[Classics 145. Ancient Greek Tyranny](#)

Catalog Number: 2008

*Nino Luraghi*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

The origins and development of monarchical power in the world of the Greek polis. The course will discuss tyranny from the point of view of political history as well as mentality. Written sources will be read in translation.

*Note:* Additional reading section offered for students with knowledge of ancient Greek.

[Classics 155. Roman Games](#)

Catalog Number: 2490

*Kathleen M. Coleman*

*Half course (fall term). M., W., F., at 9. EXAM GROUP: 2*

Examines the evidence for gladiatorial combat, wild-beast fights, executions, and aquatic



displays in the Roman world, exploring the social and political context in which they developed. 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 source-material in Greek and Latin.

**[Classics 163. Virgil and His Reception]**

Catalog Number: 8346

*Richard F. Thomas*

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

Study of the Virgil tradition from antiquity through the 20th century. Lectures and discussion on the *Eclogues*, *Georgics*, and *Aeneid*, and on a variety of points of reception: post-Virgilian epic (Ovid, Lucan, Statius), the ancient and medieval commentary tradition (Servius and Donatus), Christian reception; impact on European vernacular traditions (Dido romance to Dante, Ariosto, Tasso, Spenser and Milton); humanistic response (Maffeo Vegio to Petrarch); translation as hermeneutics (Gavin Douglas to Dryden and beyond); Virgilian reception in art and music.

*Note:* Expected to be given in 2000–01. May be counted as a language course for Classics concentrators.

**Classics 165. Ancient Greek Medicine**

Catalog Number: 6835

*Mark Schiefsky*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

Theory and practice of ancient Greek, especially Hippocratic, medicine, with particular attention to the interactions between “rational” medicine, ancient philosophy and religious healing.

**Classics 170. Euripides’ *Bakkhai* and the Modern Dionysos**

Catalog Number: 0850

*Albert Henrichs*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Diachronic readings of Euripides’ *Bakkhai* and its representation of Dionysos and the Dionysiac, with focus on the play’s role in the formation of modern approaches to the god from Nietzsche and Pater to the present.

**[Classics 190. Approaches to Classical and Indo-European Poetics]**

Catalog Number: 0712

*Calvert Watkins*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 12*

Basic principles of poetics, and of linguistic approaches to archaic forms of literature in early Indo-European societies. Close readings of selected texts in Greek, Latin, and other languages.

*Note:* Expected to be given in 2000–01. Open without prerequisite to students of the Classics, and also to students of other ancient or medieval Indo-European languages.

***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 (Boylston Hall 214).

*Primarily for Undergraduates*

**Greek A. Beginning Greek**

Catalog Number: 0129

*Gregory Nagy and assistants*

*Half course (fall term). Sections I and II, M., W., F., at 9; Section III, M., W., F., at 11. EXAM GROUP: 10*

Elements of the Greek language and introductory readings.

**Greek Aab. Beginning Greek (Intensive)**

Catalog Number: 0714

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*Full course (spring term). M., through F., at 9; M., at 1. EXAM GROUP: 2, 6, 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

----- *and assistants*

*Half course (spring term). Section I: M., W., F., at 9; Section II: M., W., F., at 11. EXAM GROUP: 10*

Continuation of Greek A. Extensive reading in Attic prose.

*Prerequisite:* Greek A or equivalent.

**Greek 3. Introduction to Attic Prose**

Catalog Number: 4696

*Albert Henrichs and assistant*

*Half course (fall term). M., W., F., at 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

*Gregory Nagy and assistant*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

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

----- 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

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

A study of Greek style. Written compositions in various styles, chiefly those of Demosthenes and Plato, with selected reading representing the development of classical prose. Translations and original essays.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Greek H or equivalent.

**[Greek 102. Attic Orators]**

Catalog Number: 3103

*Albert Henrichs*

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

Extensive reading in Lysias, Isocrates, and Demosthenes, with emphasis on style, rhetorical devices, and political background. Selections based on undergraduate and graduate reading lists.

*Note:* Expected to be given in 2000–01.

**Greek 104. Herodotus**

Catalog Number: 6340

*Nino Luraghi*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

An introduction to Herodotus' dialect and style, concept of history, authorial voice and narrative strategies, and his representation of non-Greek cultures. Selections from the entire *Histories* read in English.

**Greek 105. Aristophanes**

Catalog Number: 1969

*Albert Henrichs*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Readings of *Akharnians*, *Clouds*, and *Frogs*, with an emphasis on genre, the polis, and the role of the chorus.

**[Greek 106. Greek Tragedy]**

Catalog Number: 6274

*Gregory Nagy*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 14*

Introduction to Attic tragedy, with attention to dramatic character, divine agency, and the role of



the chorus. Reading of Aeschylus' *Agamemnon* and Sophocles' *Oedipus Tyrannus*.  
*Note:* Expected to be given in 2000–01.

### **Greek 107. Thucydides**

Catalog Number: 8281

*Eric W. Robinson*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

An introduction, combining detailed study of Thucydides' style and rhetorical technique with attention to his sources and methods of composition. The entire *History* read in English; selections in Greek from the prefatory material, the speeches in Books I–III, the debates over Mytilene and Melos, and the narrative of the Sicilian disaster.

*Note:* Expected to be omitted in 2000–01.

### **Greek 110r. Plato's Phaedrus**

Catalog Number: 6229

*Mark Schiefsky*

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

Close reading of the *Phaedrus* with particular attention to Plato's use of the *techne* model and the parallels between medicine, rhetoric and philosophy.

### **[Greek 111. Euripides]**

Catalog Number: 0919

*Gregory Nagy*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

A close reading of the *Bacchae* and the *Hippolytus*.

*Note:* Expected to be given in 2000–01.

### **Greek 112a. History of Greek Literature I**

Catalog Number: 3052

*Gregory Nagy*

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

This course offers a survey of Greek literature from Homer to the beginnings of tragedy, with special attention to literary structure and form, social context, and oral poetics. Readings will include selections from *Iliad*, *Odyssey*, Hesiod, Homeric hymns, Greek lyric poets, Pindar, Bacchylides, and the tragedians. The course will be conducted through informal lectures, with close attention to the Greek texts as time permits.

### **Greek 112b. History of Greek Literature II**

Catalog Number: 6889

*Charles P. Segal*

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

The 5th century and beyond, Comedy, Historiography, and Oratory.



**[Greek 115. Homer: *The Odyssey*]**

Catalog Number: 3036

*Charles P. Segal*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Reading of several books of *The Odyssey*, emphasizing oral tradition and its application to Homer.

*Note:* Expected to be given in 2000–01.

**[Greek 116r. Greek Lyric Poetry]**

Catalog Number: 4575

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*Half course (fall term). Hours to be arranged. EXAM GROUP: 14*

Selections from the lyric and elegiac poets (in D. A. Campbell) from Archilochos to Simonides, with choral selections from Pindar and Bacchylides.

*Note:* Expected to be given in 2000–01.

**Greek 118. Hesiod and the Homeric Hymns**

Catalog Number: 8353

*Charles P. Segal*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Reading of large portions of Hesiod's *Theogony*, selections from the *Works and Days*, and the longer Homeric Hymns. Particular attention to narrative techniques, poetics, myth, and connections with the *Iliad* and *Odyssey*.

**Greek 134. The Language of Homer**

Catalog Number: 5139

*Calvert Watkins*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Essentials of Greek comparative and historical grammar, and a close reading of *Iliad* 1 and 3. Diachronic aspects of Homeric grammar and diction.

***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 Graduate Studies in Classics (Boylston Hall 214), or the Freshman Dean's Office.

***Primarily for Undergraduates***

**Latin A. Beginning Latin**

Catalog Number: 4759

*Richard F. Thomas and assistants*



*Half course (fall term). Section I: M., W., F., at 9; Section II: M., W., F., at 11. EXAM GROUP: 10*

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

*Kathleen M. Coleman*

*Full course (fall term; repeated spring term). M., through F., at 10; M., at 1. EXAM GROUP: 3*  
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

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*Half course (spring term). Section I: M., W., F., at 9; Section II, M., W., F., at 11. EXAM GROUP: 10*

Continuation of Latin A. Completion of basic grammar and introduction to reading of connected texts.

### **Latin 3. Latin Prose Selections (Classical)**

Catalog Number: 2344

*R. J. Tarrant and assistant*

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

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

*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 (Medieval)**

Catalog Number: 7123

*Jan Ziolkowski and assistant*

*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: Vulgate Bible, Augustine's *Confessions*, and Abelard's writings.

*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**

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.

***For Undergraduates and Graduates***

**Latin H. Introductory Latin Prose Composition**

Catalog Number: 3814

*Sarolta Takács and assistant*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Practice in the translation of sentences and connected prose passages into Latin. Study of idiom and practice in translation for those who wish to acquire an accurate knowledge of Latin expression and construction.

*Prerequisite:* Latin 3 or equivalent.

**Latin K. Advanced Latin Prose Composition**

Catalog Number: 5018

*Richard F. Thomas*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

A study of the development of Latin prose style. Written compositions in various styles, combined with close reading and discussion of passages in Cato, Cicero, Sallust, Livy, Tacitus, and others.

**Latin 102a. Catullus and Horace**

Catalog Number: 7558

*Charles P. Segal*

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

Reading and analysis of the poems of Catullus and Horace.

*Note:* Open to advanced first-year undergraduates.

**[Latin 103. Latin Elegy]**

Catalog Number: 5435

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

Selections from Propertius, Tibullus, and Ovid's *Amores*.

*Note:* Expected to be given in 2000–01.

**[Latin 104. Ovid: *Metamorphoses*]**

Catalog Number: 5994

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

Ovid's storytelling and techniques: language, links between scenes, and use of myth.

*Note:* Expected to be given in 2000–01.

**Latin 105. The Letters of Cicero and Pliny**

Catalog Number: 0939

*Kathleen M. Coleman*



*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Selections from the letters of Cicero and Pliny. Topics to be considered include the social and historical background, epistolography as a form of self-presentation, and its relation to other literary types such as autobiography.

**[Latin 106a. Virgil: *Eclogues and Georgics*]**

Catalog Number: 1456

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

*Note:* Expected to be given in 2000–01.

**Latin 106b. Virgil: *Aeneid***

Catalog Number: 7069

*Richard F. Thomas*

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

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 108. Cicero and Sallust on Catiline]**

Catalog Number: 5015

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

Readings of Cicero's *Catilinarian Orations* and Sallust's *Catilinarian Conspiracy* with attention to the style, oratorical and historiographical techniques, and differences in the two accounts.

*Note:* Expected to be given in 2000–01.

**[Latin 111a. Horace: *Satires and Epistles*]**

Catalog Number: 3348

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

*Note:* Expected to be given in 2000–01.

**Latin 112a. History of Latin Literature I**

Catalog Number: 7099

*Richard F. Thomas*

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

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.

**Latin 112b. History of Latin Literature II**

Catalog Number: 7643

*R. J. Tarrant*



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

The literature of the Empire. Reading of selections from major authors, with lectures on the changing traditions and the background of Latin poetry and prose in the period.

**Latin 115. Tacitus**

Catalog Number: 7536

*Christopher P. Jones*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

An introduction to the life and works of Cornelius Tacitus, with emphasis on style and historiographical method. Readings mainly from the *Historiae* Books I and II.

**Latin 117. Livy**

Catalog Number: 1279

*Nino Luraghi*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

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 and the war with Hannibal.

**[Latin 124. The Roman Novel]**

Catalog Number: 2684

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

An introduction to the Roman novel and its place in the larger context of Latin literature and culture. Readings from Petronius' *Satyricon*, Apuleius' *Metamorphoses*, *Historia Apollonii regis Tyri*, and, in translation, *Lucius*, or *The Ass*, Xenophon's *Ephesiaca*, and Longus' *Daphnis and Chloe*.

*Note:* Expected to be given in 2000–01.

**[Latin 134. Archaic Latin]**

Catalog Number: 1327

*Ivy Livingston*

*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 2000–01.

**[Latin 160. Roman Comedy]**

Catalog Number: 5520

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

Reading and discussion of Plautus' *Menaechmi* and Terence's *Adelphoe*, with particular attention to the language of the plays.

*Note:* Expected to be given in 2000–01.



## *Classics for Graduates*

### *200-Level Seminars*

#### [Classics 245. Mythology](#)

Catalog Number: 7599

*Sarolta Takács*

*Half course (spring term). F., 2–4. EXAM GROUP: 7, 8*

This course will focus on ancient and modern conceptions of myth and mythology. Questions of methodology (comparative mythology, psychoanalysis, structuralism, Rome's Istituto di Studi storico-religiosi, Vernant, Vidal Naquet, Detienne, Burkert, Versnel) as well as the intersections of myth and religion and myth and rituals will be addressed. Issues of curricular development will form an integral part of each week's session. Primary sources will include: Hesiod's *Theogony*, Ovid's *Metamorphoses* and *Fasti*, as well as archaeological, iconographic, numismatic, and epigraphic evidence.

#### [Classics 248. Greek Choral Lyric Poetry](#)

Catalog Number: 1907

*Gregory Nagy*

*Half course (spring 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.

#### [Classics 256. Autobiography: Representations of the Self in Greek and Roman Antiquity](#)

Catalog Number: 6915

*Albert Henrichs*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Why did Greeks and Romans reflect on their own lives? How did they construct their own identity? Was there a genre 'autobiography'? Narrative, religious and cultural aspects of first-person life stories of fictional and historical characters: Odysseus and Oedipus; Sokrates in Plato's *Apology*; Augustus, *Res Gestae* and Marcus Aurelius, *Meditations*, Book I; the life of Mani, the founder of Manichaeism, and Augustine's *Confessions*.

#### [Classics 260. Early Latin Poetry](#)

Catalog Number: 3695

*Ivy Livingston*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

The fragments of Livius, Naevius, Ennius and others will be studied in their social and literary historical context, with attention to the development of genre in Latin literature, as well as to the linguistic, stylistic, and metrical features of the texts.

#### [Classics 270. Greek Views of Rome](#)

Catalog Number: 3084

*Christopher P. Jones*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*



Studies Greek authors, both prose and verse, who discuss relations between Rome and Greece, and reveal Greek attitudes to Roman power, between the second century BCE and the second century CE. Works to be considered include Melinno, *Hymn to Rome*; Plutarch, *Life of Flaminius*; selections from the Greek Anthology; and Aelius Aristides, *To Rome*.

### Classics 287. Augustan Questions

Catalog Number: 7722

R. J. Tarrant

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Selected topics in the historiography, literature, and art of the Augustan principate.

### **Graduate Courses of Reading and Research**

#### **\*Classics 300. Direction of Doctoral Dissertations**

Catalog Number: 4543

*Margaret Alexiou 1214 (on leave spring term), Kathleen M. Coleman 2289, John Duffy 1352, Albert Henrichs 4085, Christopher P. Jones 3204, Ivy Livingston 2293, Nino Luraghi 2408, David Gordon Mitten 1290, Gregory Nagy 1423, Gloria Ferrari Pinney 1384 (on leave spring term), Eric W. Robinson 2724, Panagiotis Roilos 1982, Mark Schiefsky 2354 (on leave fall term), Charles P. Segal 2596, Sarolta Takács 3474, R. J. Tarrant 7503, Richard F. Thomas 1630, Calvert Watkins 2553, and Jan Ziolkowski 7275*

#### **\*Classics 301. Reading or Topics Course**

Catalog Number: 3457

*Margaret Alexiou 1214 (on leave spring term), Kathleen M. Coleman 2289, John Duffy 1352, Albert Henrichs 4085, Christopher P. Jones 3204, Ivy Livingston 2293, Nino Luraghi 2408, David Gordon Mitten 1290, Gregory Nagy 1423, Gloria Ferrari Pinney 1384 (on leave spring term), Eric W. Robinson 2724, Panagiotis Roilos 1982, Mark Schiefsky 2354 (on leave fall term), Charles P. Segal 2596, Sarolta Takács 3474, R. J. Tarrant 7503, Richard F. Thomas 1630, Calvert Watkins 2553, and Jan Ziolkowski 7275*

*Note:* For graduate students whose individual needs are not met by the formal courses offered.

#### **\*Classics 302. Special Examinations Direction**

Catalog Number: 2686

*Margaret Alexiou 1214 (on leave spring term), Kathleen M. Coleman 2289, John Duffy 1352, Albert Henrichs 4085, Christopher P. Jones 3204, Ivy Livingston 2293, Nino Luraghi 2408, David Gordon Mitten 1290, Gregory Nagy 1423, Gloria Ferrari Pinney 1384 (on leave spring term), Eric W. Robinson 2724, Panagiotis Roilos 1982, Mark Schiefsky 2354 (on leave fall term), Charles P. Segal 2596, Sarolta Takács 3474, R. J. Tarrant 7503, Richard F. Thomas 1630, Calvert Watkins 2553, and Jan Ziolkowski 7275*

#### **\*Classics 350. Classical Philology: Proseminar**

Catalog Number: 4026

*John Duffy 1352 and Gregory Nagy 1423*

*Half course (fall term). M., 1–3.*

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 Ph.D. in Classical Philology. Open to other students by permission of instructor.

### *Cross-listed Courses*

**[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]**

### *Medieval Greek*

For Medieval Greek history see History 1211a and 1211b.

### *For Undergraduates and Graduates*

#### **Medieval Greek 115ar. Introduction to Byzantine Greek**

Catalog Number: 7682

*John Duffy*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

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). Hours to be arranged.*

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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Greek A and B or equivalent.

#### **Medieval Greek 175. The Byzantine Chronographic Tradition**

Catalog Number: 0659

*John Duffy*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Readings in Greek from the Byzantine chronographic tradition as represented by authors ranging from John Malalas (6th c.) to George the Monk (9th c.) The chronicle considered as distinct genre of literature, vehicle of information, and form of narrative entertainment.



*Cross-listed Courses*

**[Medieval Studies 101 \(formerly History 2277\). The Auxiliary Disciplines of Medieval History: Proseminar](#)**

*Primarily for Graduates*

**[Medieval Greek 274. Early Byzantine Hagiography](#)**

Catalog Number: 5117

*John Duffy*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

The development of the genre of Christian biography and comparison with its antique counterpart. Reading and analyzing representative lives of holy men and women from the 4th to the 7th century, in both urban and remote settings.

**[Medieval Greek 284. Saints' Lives of the 8th to 10th Century]**

Catalog Number: 5892

*John Duffy*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 7, 8*

*Note: Expected to be given in 2000–01.*

***Medieval Latin***

***For Undergraduates and Graduates***

**[Medieval Latin 115. Medieval Latin Lyric Poetry]**

Catalog Number: 1010

*Jan Ziolkowski*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 6*

Surveys Latin lyric poems, both religious and secular, written in the Middle Ages. Examines selected hymns (from Ambrose through Abelard to the *Stabat Mater* and *Dies Irae*). Considers collections of secular lyrics (the *Cambridge Songs* and *Carmina Burana*, among others). Special issues include formation of songbooks, performance situations, and music.

*Note: Expected to be given in 2000–01.*

*Prerequisite: Completion of Latin 4 or other preparation in Latin satisfactory to the instructor.*

**[Medieval Latin 116. Medieval Latin Epic and Romance]**

Catalog Number: 4122

*Jan Ziolkowski*

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

Considers reception of Classical Latin epics (such as allegorizing, centoization, and mock epic), creation of Christian epic forms (Bible epic, personification allegory, and development of distinctly medieval genres (Germanic heroic epic, romance, beast epic).

*Note: Expected to be given in 2000–01.*

*Prerequisite: Completion of Latin 4 or other preparation in Latin satisfactory to the instructor.*



**Medieval Latin 117. Fairy Tales and their Tellers in the Middle Ages**

Catalog Number: 3179

*Jan Ziolkowski*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Examines folktales preserved in Medieval Latin and compares them with versions in Grimm, Andersen, and other 19th-century collections. Considers storytellers (old women, peasants, travelers, and professionals), their audiences, and their messages.

*Prerequisite:* Completion of Latin 4 or other preparation in Latin satisfactory to the instructor.

**[Medieval Latin 120. Wisdom and Learning]**

Catalog Number: 4019

*Jan Ziolkowski*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 6, 7*

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 2000–01. 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. EXAM GROUP: 6, 7*

Studies a twelfth-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 2000–01. 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 (Medieval)**  
**Literature and Arts C-22. European Culture in the Latin Middle Ages**

***Classical Archaeology***

***For Undergraduates and Graduates***

**[Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200–300 BCE]**

Catalog Number: 0835

*David Gordon Mitten*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 5*

The origins and development of Greek architecture, sculpture, and painting; the growth of cities and sanctuaries; religious mythological and narrative art, including monumental painting,



mosaics, and vase painting. The development of archaeological research in Greek lands; current problems, such as the nature of Greek relationships with non-Greek peoples, and the Macedonian tombs. Readings, short papers on original works of art in Boston area museums, and a research paper.

*Note:* Expected to be given in 2000–01.

**Classical Archaeology 136. Archaeology of the Aegean Bronze Age**

Catalog Number: 7582

*David Gordon Mitten*

*Half course (spring term). Tu., Th., 11–12:30. EXAM GROUP: 13, 14*

The beginnings of civilization in Greece and the Aegean islands; palaces and towns of Crete and Greece; wall paintings, pottery, ivory- and metal-work; trade with Egypt and the East, burial customs, religion, writing (Linear B); the Trojan War and the Homeric tradition.

**[Classical Archaeology 140. The Parthenon]**

Catalog Number: 8973

*Gloria Ferrari Pinney*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 13*

From their construction to their recent evocation in Nashville, the Parthenon and the colossal statue of Athena it housed have held a special place in the history of Western civilization, where they have come to symbolize fundamental cultural ideals. This course offers a view into the making of the myth by restoring the temple to the specific historical and political circumstances of its creation. As much as the surviving evidence allows, we trace planning, financing, and construction; we examine how the temple functioned as the site of cult and civic display; and we discuss the themes that make up its sculptural decoration in relationship to contemporary Athenian ideology.

*Note:* Expected to be given in 2000–01.

**[Classical Archaeology 145. The Representation of Women in Ancient Greece]**

Catalog Number: 8969

*Gloria Ferrari Pinney*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 15*

The materials of this course are archaic and classical painted vases and sculptures and selected literary texts (in translation). Through both visual and literary imagery basic notions about female gender in ancient Greece will be explored, such as the nature of female beauty, categories of age, the importance of modesty, the conception of marriage.

*Note:* Expected to be given in 2000–01.

**Classical Archaeology 150. Archaic Greece**

Catalog Number: 9899

*Gloria Ferrari Pinney*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

“The remarkable developments of the eighth century in Greece...seem almost all to be centered round an abstract idea: the new conception of the state”, writes Snodgrass in *Archaic Greece*.

This course will focus selectively on major visual aspects of this new conception -- the sanctuary, the grave, and figural, narrative representations. Emphasis will be placed on particular



moments, with the aim to locate them within the cultural structure that produced them, and to explore the way in which they articulate notions about the past, and definitions of national identity and of citizenship.

### **Classical Archaeology 160. Vase-painting and Iconography**

Catalog Number: 7289

*Gloria Ferrari Pinney*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

The painted vases constitute a rich body of evidence for the study of the history, art, and culture of ancient Greece. Historians and archaeologists rely on ceramics to establish dates and to chart contacts in the Mediterranean. For the art historian the vases open a bright window, albeit a narrow one, on the development of the visual arts. Most importantly, they preserve thousands of figural representations, which are invaluable sources of knowledge for the conceptual universe of the society that produced them. Introduction to this specialized field, with emphasis on typology as well as issues of method and interpretation. The material considered spans the centuries from the Early Iron Age to the end of the fifth century BCE.

### **Classical Archaeology 180. Coinage, Politics, and Economy in the Greek World**

Catalog Number: 1746

*David Gordon Mitten*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

The development and use of Greek coinage surveyed in connection with its impact upon the political, social, and economic life of the Greek states down to the consolidation of Roman rule in the eastern Mediterranean region. The importance of Greek coins as evidence for historical, religious, artistic, social, and archaeological problems in Greek civilization is emphasized. As circumstances permit, coins from the Fogg Art Museum collection will serve as research material.

*Note:* Open to qualified undergraduates as well as to students of the Harvard Divinity School.

*Prerequisite:* Some previous work in classical literature or archaeology or ancient history.

***Primarily for Graduates***

### **[Classical Archaeology 240. Archaic Mythological Narrative: The François Vase]**

Catalog Number: 6187

*David Gordon Mitten*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 7, 8*

The Athenian black-figure volute krater called the François Vase, made in Athens ca. 570 B.C.E. and found in Chiusi, Italy, with its network of narrative problems in archaic Greek art history and culture: relation of text to image, patronage, development of iconographic programs, function related to elite social institutions such as the symposium (men's drinking party), and relation of myth, cult, and ritual.

*Note:* Expected to be given in 2000–01. Qualified undergraduates welcome.

### **[Classical Archaeology 241. Narrative in Ancient Greek Art]**

Catalog Number: 4461

*Gloria Ferrari Pinney*



*Half course (spring term). Hours to be arranged. EXAM GROUP: 15, 16*

In the history of ancient art, major issues concerning the structure of visual narrative and their relationship to the structure of texts were exposed in a landmark study by Carl Robert in 1881. With few, albeit important exceptions, discussions of this important subject since then have largely remained within the parameters set by Robert. This seminar will re-examine that tradition of scholarly inquiry and move on to explore what theories of narrative that have shaped literary and art historical studies may contribute to the interpretation of ancient Greek modes of visual narrative.

*Note:* Expected to be given in 2000–01.

### *Cross-listed Courses*

**[Religion 2348ab. Archaeology and the World of the New Testament: Seminar]**

### *Modern Greek*

#### *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 a fourth 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., W., F., at 11. EXAM GROUP: 4*

For students with an elementary knowledge of modern Greek (equivalent to that acquired in Modern Greek A). 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 semester 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.

#### **Modern Greek C. Advanced Modern Greek: Supervised Readings**

Catalog Number: 8487

*Panagiotis Roilos*

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

Advanced reading in topics agreed upon by instructor and students.

*Note:* Students must have completed Modern Greek B or equivalent and must have permission of the instructor. No Pass/Fail.



### **[Modern Greek 116. Greek Songs and European Ballads]**

Catalog Number: 1239

*Margaret Alexiou*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 7, 8*

A comparative approach to narrative songs, with particular on their relation to mythology and the other world. How are stories told in song? Why do Greek (and other Balkan) songs play on paradox and parody, whereas Scottish, English and other classic ballads seem more tragic/romantic? In what different ways has the ballad interacted with literary prose and poetry (select examples)? And what about the music? These and other questions will be explored, with reference to available archival materials as well as to the major collections. We shall also survey the development of folklore studies in relation to modern nation state formation.

*Note:* Expected to be given in 2000–01. All texts are available in English; no prior knowledge of Greek (or musical expertise) will be assumed. Intended primarily for undergraduates and graduates in Anthropology, Folklore and Mythology, Classics, Comparative Literature, Literature Concentration. Celticists particularly welcome.

### **Modern Greek 117. Laments**

Catalog Number: 2754

*Margaret Alexiou*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

The lament as a ritual performance has virtually disappeared from modern civilization. The Greek-speaking world, with its living folk traditions and 3000-year-old recorded history, can help us to explore: the diverse forms of the genre, expressed primarily by women since time immemorial; the interactions between orality and literacy, ritual and poetry; and the dynamics for social protest. Sources will include literature (e.g. epic, tragedy, lyric), iconography, and musical performances (folk songs, field recordings), drawn diachronically from Greek and other cultures. Comparative and anthropological perspectives will be applied throughout.

*Note:* All materials will be available in English translation, although students will be encouraged to read in the originals where possible.

### **[Modern Greek 119. Dreams and Literature]**

Catalog Number: 4170

*Margaret Alexiou*

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

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 modern Greek literature and oral culture, but examples from ancient and Byzantine literature will also be considered, alongside comparative examples from other literatures and cultures (including film). Major topics: typology of dreams; dreams as narratives; religious dimensions. Theoretical readings to include: Aristotle, Aelius Aristides, Artemidoros, Synesios; Freud, Jung, Levi-Strauss, Turner, Foucault, Lyotard.

*Note:* Expected to be given in 2000–01. Key texts available in translation; graduate students to do extra readings in the original Greek.

### **Modern Greek 124. Imagining the Ancients: The Classical Tradition in Modern Greek Literature**



Catalog Number: 5296

*Panagiotis Roilos*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Ancient Greece has always exerted an “anxiety of influence” on Modern Greek cultural and political life. Examples drawn mainly from Koraes, Papadiamantes, Palamas, Cavafy, Sikelianos, Seferis, Elytis will illustrate the ways in which the classical tradition has been manipulated in 19th and 20th century-Greek literature; parallels from other literatures and examples from folklore material (songs, traditions, folktales) will also be discussed.

*Note:* All texts will be available in English.

***Primarily for Graduates***

**[Modern Greek 200. Modern Greek Literature: Open Forum]**

Catalog Number: 7714

*Margaret Alexiou*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 9*

Graduates in Modern Greek will present topics for debate and analysis, as appropriate to the current stage of their research. There is no fixed syllabus, but important questions will be addressed. Harvard and outside faculty will be invited to contribute to an ongoing debate on specific issues.

*Note:* Expected to be given in 2000–01.

**Modern Greek 201. The Modern Novel**

Catalog Number: 2162

*Margaret Alexiou*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Starting from late antiquity, we shall study Greek novelistic genres to illuminate how their diverse forms and functions have contributed to the making of the modern novel, and may continue to shape present directions. Recurring themes, such as sex and violence, crime and punishment, love and marriage, will be considered in the context of changing social and religious structures. Particular attention will be paid to dreams, imagery, and ekphrasis as modes of representation. Comparative examples will be drawn from modern European and African-American literatures.

*Note:* Most texts will be available in English translation, but students of Greek will be expected to read as much as possible in the original. In Fall 1999, Greek Perspectives on the Modern Novel will continue with a study of oral traditional tales.

## Comparative Literature

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



***Faculty of the Department of Comparative Literature***

Jan Ziolkowski, Professor of Medieval Latin and Comparative Literature (*Chair*)  
 Margaret Alexiou, George Seferis Professor of Modern Greek Studies and Professor of Comparative Literature (*on leave spring term*)  
 Svetlana Boym, Professor of Slavic Languages and Literatures and of Comparative Literature  
 Michel Chaouli, Assistant Professor of German and Comparative Literature  
 Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature  
 James Engell, Professor of English and Comparative Literature  
 Luis M. Girón Negrón, Assistant Professor of Comparative Literature and of Romance Languages and Literatures  
 Barbara E. Johnson, Fredric Wertham Professor of Law and Psychiatry in Society  
 Walter Kaiser, Francis Lee Higginson Professor of English Literature and Professor of Comparative Literature and Director of Villa I Tatti  
 James L. Kugel, Harry Starr Professor of Classical and Modern Jewish and Hebrew Literature and Professor of Comparative Literature, Director of the Center for Jewish Studies (*on leave spring term*)  
 Jacques A. Lezra, Visiting Associate Professor of Comparative Literature (*University of Wisconsin, Madison*)  
 Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature  
 Stephen Owen, James Bryant Conant University Professor  
 Lino Pertile, Professor of Romance Languages and Literatures and Professor of Comparative Literature  
 Judith Ryan, Harvard College Professor and the Robert K. and Dale J. Weary Professor of German and Comparative Literature (*on leave spring term*)  
 Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English  
 Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature  
 William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education  
 Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative Literature (*on leave spring term*)

***Other Faculty Offering Instruction in the Department of Comparative Literature***

Sacvan Bercovitch, Charles H. Carswell Professor of English and American Literature and Language  
 George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature (*on leave spring term*)  
 Karl S. Guthke, Kuno Francke Professor of German Art and Culture (*on leave fall term*)  
 Beatrice Hanssen, Associate Professor of German  
 Alan Heimert, Powell M. Cabot Professor of American Literature (*on leave 1999-00*)  
 Robert Kiely, Donald P. and Katherine B. Loker Professor of English  
 Francisco Márquez, Arthur Kingsley Porter Professor of Romance Languages and Literatures



Barry C. Mazur, Gerhard Gade University Professor  
 Marcus Moseley, Assistant Professor of Jewish Studies  
 Sandra Naddaff, Senior Lecturer on Literature  
 Per Nykrog, Smith Professor of the French and Spanish Languages and Literatures  
 Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures

This field is organized to facilitate the systematic study of subjects and problems common to the various literatures. Programs leading to the degrees of A.M. and Ph.D. 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 102x. How to Think Money**

Catalog Number: 8734

*Marc Shell*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Introduction to aesthetic and economic form in literature, painting, music, and cinema. Theoretical perspectives from Plato, Kant, Hegel, Marx, Heidegger, Simmel, Burke, Derrida, Baudrillard. Attention to issues of symbolic mediation, theme and structure. Works include Shakespeare's *Merchant of Venice*, Metsys' *Moneychanger and His Wife*, Poe's "Wall Street," Bresson's *Money*, Wagner's *Ring of the Nibelung*, Charles Ives' *Marches*.

*Note:* Expected to be omitted in 2000–01.

**[Comparative Literature 103r. Literature and Politics: The Case of the Holocaust]**

Catalog Number: 6773

*Ruth R. Wisse*

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

Examines the category of "Holocaust Literature" — *khurbn literatur* in Yiddish and *sifrut hashoah* in Hebrew—to see how works written within discrete literary traditions reflect on their languages of composition and cultural contexts. The works of writers in Hebrew, Yiddish, several European languages, and English will be read in translation, including Aharon Appelfeld, Yitzhak Katsenelson, Emanuel Ringelblum, Abraham Sutzkever, Jacob Glatstein, Primo Levi, Piotr Rawicz, Elie Wiesel, Cynthia Ozick.

*Note:* Expected to be given in 2000–01.

**Comparative Literature 104. Jewish Autobiography from the Renaissance to the 20th Century**

Catalog Number: 0956

*Marcus Moseley*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

Jewish autobiographical texts from the Renaissance period to the present in the light of



contemporary critical and theoretical perspectives and within a comparative context. Authors to be studied include Y.A. Modena, Nahman of Bratslav, Solomon Maimon, N.H. Bialik, Y.L. Peretz, and David Daiches. All readings are in English.

*Note:* Expected to be omitted in 2000–01.

**[Comparative Literature 106x. Diaspora in Jewish Fiction]**

Catalog Number: 3711

*Sacvan Bercovitch*

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

An exploration of the transformations in Judaism of the meanings of Diaspora, historically and aesthetically, from scripture to commentary to modern fiction. Selections from the Bible, Commentaries, Hassidic Tales, Sholem Aleikhem, Peretz, Kafka, Babel, and others.

*Note:* Expected to be given in 2000–01.

**[Comparative Literature 109. Aesthetic Disgust, Disgusting Aesthetics]**

Catalog Number: 2032

*Michel Chaouli*

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

According to Kant's third *Critique*, everything can be represented aesthetically, except what evokes disgust. Why is this? In rethinking terms such as taste and beauty through an analysis of disgust, we will consider other questions: is there a utopian moment to disgust? is disgust (not its object but the affect itself) historically constructed? is it gendered? can there be ethical disgust? and, why is it, *pace* Kant, so enjoyable? Works by Lessing, Kant, Sade, Kleist, Flaubert, Freud, Bataille, Céline, Genet, Kristeva, Derrida, and Lacan.

*Note:* Expected to be given in 2000–01.

**Comparative Literature 111. From Type to Self in the Middle Ages**

Catalog Number: 9245

*Luis M. Girón Negrón*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Examines self-representation and the emergence of the individual in selected poems and first-person narratives from medieval/early modern Europe. Examples drawn from spiritual autobiographies, epic poems, saints' lives, *maqama* literature (Arabic and Hebrew rhymed prose narratives), *troubadour* lyric, Hispano-Jewish poetry, pilgrimage tales, medieval allegories, Spanish colonial historiography, and the picaresque novel.

*Note:* Expected to be omitted in 2000–01. All readings in English translation.

**[Comparative Literature 112. Religion and Literature in the Middle Ages]**

Catalog Number: 6579

*Luis M. Girón Negrón*

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

An introduction to religion as a cultural context for literary expression in the Middle Ages. Selected case studies on the following themes: poetry, prophecy and mysticism, Scriptural interpretation and allegorical fiction, dreams and visions of the other-world, Jews, Christians and Muslims, magic and astrology, miracle stories and medieval society, the philosophical tradition,



ritual and theater, pilgrimage narratives, and saints and heroes as literary types.

*Note:* Expected to be given in 2000–01. All readings in English translation.

**[Comparative Literature 151. The Faust Legend in Literature]**

Catalog Number: 6217

*Karl S. Guthke*

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

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:* Expected to be given in 2000–01. No reading knowledge of Spanish, French, or German required.

**[Comparative Literature 159. The Peasant in Literature: Conference Course]**

Catalog Number: 9742

*George G. Grabowicz*

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

The perception of the peasant as topic, as ideal, and as the Other in 19th- and 20th-century literature. Examines the paradigms and strategies of Romantic idealization, realism and verismo, naturalism, impressionism and symbolism, as well as ideological stances (populism, Marxism, socialist realism, anti-fascism) and psychological attitudes (from self-identification to demonization). Authors treated include George Sand, Shevchenko, Turgenev, Hardy, Tolstoy, Zola, Reymond, Verga, Kociubynskyj, Silone, Platonov, Solzhenitsyn, and Kosinski.

*Note:* Expected to be given in 2001–02. All texts can be read in English.

**[Comparative Literature 162. (Neo) Existentialism]**

Catalog Number: 5661

*Beatrice Hanssen*

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

On the road towards the end of the century (and millennium), we will cast a backward glance at one of the most intriguing intellectual movements of the 20th century to ask in what sense existentialism might still be *with us*. The prevalence of moods such as *angst*, nausea, and melancholia, or the new use of categories such as freedom and experience suggest the emergence of a *neo-existentialism* in reaction, perhaps, to postmodernism. Figures considered include: Kierkegaard, Nietzsche, Heidegger, Levinas, Sartre, de Beauvoir, Fanon, Debord, Kerouac, Plath, Cioran, Kristeva, and Kieslowski.

*Note:* Expected to be given in 2000–01.

**[Comparative Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course]**

Catalog Number: 7762

*George G. Grabowicz*

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

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:* Expected to be given in 2000–01. All texts can be read in English translation.



**[Comparative Literature 166. The Comic Tradition in Jewish Culture]**

Catalog Number: 3418

*Ruth R. Wisse*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Examines the premise that Jewish culture is predisposed to irony and humor because of contradictions between internal self-images and external socio-political conditions. Writings from mid-19th century to World War II.

*Note:* Expected to be given in 2000–01.

**[Comparative Literature 167. Contemporary Fiction]**

Catalog Number: 1808

*Judith Ryan*

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

Against a background of theoretical readings on the problem of ideology in literature, a variety of recent novels and their response to political and social problems are explored. Authors treated: D. M. Thomas, Marguerite Duras, Günter Grass, John Irving, Thomas Kenneally, Joyce Carol Oates, Patrick Süskind, Graham Swift, and Christa Wolf.

*Note:* Expected to be given in 2000–01.

**[Comparative Literature 168. Literature and Film]**

Catalog Number: 8121

*Svetlana Boym*

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

Focuses on literary and cinematic techniques of representation and the ways in which different media reflect and inform modern cultural myths. Special attention to representation of history and memory in East and West European film and to the tradition of cinematic experimentation from the silent era to the present. Works by Vertov, Eisenstein, Gogol, Trauberg, Nabokov, Kubrik, Jarmusch, Cortázar, Antonioni, Kundera, Vajda, Tarkovsky, Varda, Sarraute, and others.

*Note:* Expected to be given in 2000–01.

**[Comparative Literature 182 (formerly Comparative Literature 282). Comparative Cultures of Money]**

Catalog Number: 0539

*Marc Shell*

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

Language and money as means of representation and exchange. Special attention to presumptions about politics, imitation, and the visual arts. Readings include texts by modern theorists as well as Aristotle, Balzac, Del Mar, Goethe, Heidegger, Hess, Martineau, Pascal, Shakespeare, Thoreau, and Ueda.

*Note:* Expected to be given in 2000–01.

**[Comparative Literature 185. Reading and Representation in Early Modern Europe](#)**

Catalog Number: 5286

*Jacques A. Lezra (University of Wisconsin, Madison)*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Close study of the proposition—central in contemporary philosophical, aesthetic, and



psychoanalytic work—that an analogy between reading and seeing helps structure the emergence of a recognizably “modern” form of subjectivity. Readings from Cervantes, Descartes, and Ariosto, alongside works by Piero della Francesca, Titian, Velázquez, Lacan, Heidegger, Panofsky, Cassirer, Irigaray, Kofman, Ginzburg, Carducho, Virilio, and Marx.

*Note:* Expected to be omitted in 2000–01.

***Primarily for Graduates***

**\*Comparative Literature 206 (formerly Comparative Literature 106). Allegory: Seminar**

Catalog Number: 3313

*Barbara E. Johnson*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Studies allegorical reading from Christian interpretations of the “Old Testament” to modern psychoanalysis, feminism, Marxism, deconstruction, queer theory, postcolonialism. Readings include classical allegories (*The Romance of the Rose*, *The Pilgrim’s Progress*), modern allegorical texts (Mary Shelley, Melville, Hawthorne, Stevenson, Wilde, Gilman, Camus, DuBois, Calvino), and theorists (Freud, Benjamin, de Man, Sedgwick, Jameson, Jan Mohamed, Morrison).

*Note:* Expected to be omitted in 2000–01.

**[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]**

Catalog Number: 7426

*Gregory Nagy*

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

Genres, forms, and themes of oral traditions in poetry and prose. Problems of analyzing divergences and convergences in oral and written literatures. The concept of the canon in oral and written literatures. Theories of performance and composition. Comparative metrical and formulaic analysis.

*Note:* Expected to be given in 2000–01. Knowledge of Greek not required. Qualified undergraduates welcome.

**\*Comparative Literature 210. Comparative Themes in the Literatures of Medieval Spain: Seminar**

Catalog Number: 3298

*Luis M. Girón Negrón*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Examines Jewish-Christian-Muslim interaction as a Hispano-Medieval paradigm of cultural creativity. Examples drawn from Spanish epic, *muwashshahat*, Hispano-Jewish poetry, the short story tradition, *maqama* literature, the *adab* tradition, medieval didactica, historical chronicles, polemical writings, the Sephardic *romancero*, *cancionero* poetry, *La Celestina*, and Spanish mystical literature.

*Note:* Expected to be omitted in 2000–01. Spanish, Latin, Arabic, and Hebrew materials will be read in English translation but students are encouraged to work with the originals.



**\*Comparative Literature 260. Literature and Exile: Seminar**

Catalog Number: 3691

*Svetlana Boym*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Explores the intimate connection between literature and exile through fiction, poetry, autobiographical and critical writings of writer-expatriates. Topics to be considered include exile as a metaphor and as an experience, nostalgia and irony, imagined homelands and national canons, bilingualism and transnational identity. Readings from Nabokov, Kundera, Sarraute, Cortázar, Rushdie, Brodsky.

*Note:* Expected to be omitted in 2000–01. Open to qualified undergraduates.

**[\*Comparative Literature 261. Memory and Modernity: Seminar]**

Catalog Number: 6923 Enrollment: Limited to 15.

*Svetlana Boym*

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

Explores modern art of memory in literary, philosophical, and critical texts. Topics to be considered: nostalgia and search for newness, collective and individual memory, conspiracy theories and ethics of remembering, modern “memory sites” — metropolis, museum, monument, home. Special attention to contemporary East-European reflection on art, memory, and nation. Readings from Baudelaire, Benjamin, Nietzsche, Proust, Nabokov, Tsvetaeva, Kundera, Kis, Levi, Cortázar, Borges, Brodsky, Lyotard, and others.

*Note:* Expected to be given in 2000–01. All texts available in English, but reading texts in the original is encouraged. Primarily for graduate students; qualified undergraduates welcome.

**\*Comparative Literature 269. Metaphors of Illness: From Polio to AIDS: Seminar**

Catalog Number: 8517

*Marc Shell*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Considers culture and social aesthetics of 20th-century medical epidemics in Europe and America. Literary texts, films, visual art. Syllabus includes *Tales from Inside the Iron Lung*, *Looking for Mr. Goodbar*, speeches by Franklin Delano Roosevelt, medical texts about hysterical paralysis, paintings by Frida Kahlo and Masaccio. Theorists of aesthetics and medicine include Aristotle, Plato, Thomas Mann, Susan Sontag.

*Note:* Expected to be omitted in 2000–01.

**\*Comparative Literature 280. Literary Theory and Criticism in the Middle Ages: Seminar**

Catalog Number: 2215

*Jan Ziolkowski*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Examines the place of theory and criticism in the curriculum (grammar, rhetoric, and dialectic). Topics include allegory and allegoresis; nature of medieval glosses and commentaries; continuity of Platonic and Aristotelian traditions; medieval sign theory. Readings include works by Augustine, Fulgentius, Bede, Bernard Silvestris, Matthew of Vendôme, Geoffrey of Vinsauf, Snorri Sturluson, Dante, and Boccaccio.

*Note:* Expected to be omitted in 2001–02.



**[\*Comparative Literature 283. Language Wars and Polyglot Literature: Seminar]**

Catalog Number: 9342

*Marc Shell*

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

First we consider how language difference abets war and promises peace; sites include ancient Gilead and Rome, as well as contemporary Québec, Nigeria, and Hispaniola. Then we consider problems of translation, heteroglossia and literary multilingualism; texts include the trilingual New Testament and works by Shakespeare, Goethe, Celan, and Beckett.

*Note:* Expected to be given in 2000–01.

**\*Comparative Literature 284. Introduction to Kant's Critique of Judgment: Seminar**

Catalog Number: 7019

*Michel Chaouli and Barry C. Mazur*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Focus is a detailed reading of one of the central works of aesthetics, Kant's *Critique of Judgment*, and selected portions of the first *Critique*. We will pursue questions of mimesis, affect, and representation in works by Schiller, Friedrich Schlegel, Novalis, Wordsworth, Coleridge, and Shelley. Advanced undergraduates welcome.

*Note:* Expected to be omitted in 2000–01.

**\*Comparative Literature 285. Comparative Romantic Theory: Seminar**

Catalog Number: 0752

*James Engell*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Intensive readings in Anglo-American and Continental theory of the Romantic period with relevant 20th-century commentary (e.g., Coleridge, Schelling, Keats, de Man, Todorov, and McFarland on allegory and symbol). Topics include language theory, irony, influence and originality, expression and reception, literary forms (genre), gender, and aesthetics.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Some prior knowledge of Romantic literature. Reading knowledge of German desirable but not required.

**\*Comparative Literature 286. Terror and Materialism: Seminar**

Catalog Number: 3383

*Jacques A. Lezra (University of Wisconsin, Madison)*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Can the experience of terror and the mode of allegory together define a materialist aesthetics? If so, with what consequences for accounts of political engagement? Of ethics more broadly? Readings from Hegel, Poe, Marx, Melville, Borges, Cortázar, Lispector, Resnais, Celan, Améry, Derrida, Althusser, Levinas, Benjamin, and de Man.

*Note:* Expected to be omitted in 2000–01.

**\*Comparative Literature 287r. Selected Topics in Poetics and Rhetoric: Seminar**

Catalog Number: 7999

*Gregory Nagy*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*



Points of departure: Aristotle's *Poetics* and *Rhetoric*.

*Note:* Expected to be omitted in 2000–01. Knowledge of Greek not required. Qualified undergraduates welcome.

**\*Comparative Literature 288. Ideology of the Aesthetic-Aesthetic Ideology: Seminar**

Catalog Number: 3775

*Beatrice Hanssen*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

In-depth study of major 18th- and 19th-century philosophical essays on aesthetics, which are read against Eagleton's *Ideology of the Aesthetic* and de Man's *Aesthetic Ideology*. Authors considered include: Kant, Burke, Hume, Hegel, Kierkegaard, Nietzsche, Marx, Heidegger, Benjamin, Adorno, Bourdieu, Althusser, Kristeva, Lyotard.

*Note:* Expected to be omitted in 2000–01. Open to qualified undergraduates.

**\*Comparative Literature 299a. Literary Theory: Proseminar**

Catalog Number: 2431

*Michel Chaouli*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

An introduction to the main concepts, texts, and debates that have shaped literary studies in the United States, particularly since the 1960s.

*Note:* Required of first-year graduate students in Comparative Literature; others may be admitted by permission of instructor.

***Graduate Courses of Reading and Research***

**\*Comparative Literature 396. Preparation for the General Examinations**

Catalog Number: 4570

*Margaret Alexiou 1214 (on leave spring term), Sacvan Bercovitch 7638, Svetlana Boym 1926, Michel Chaouli 1681, Joaquim-Francisco Coelho 7715, James Engell 8076, Luis M. Girón Negrón 3060, George G. Grabowicz 4511 (on leave spring term), Karl S. Guthke 1715 (on leave fall term), Alan Heimert 1631 (on leave 1999-00), Barbara E. Johnson 7626, Walter Kaiser 2561, Robert Kiely 1621, James L. Kugel 7575 (on leave spring term), Francisco Márquez 5064, Sandra Naddaff 7779, Gregory Nagy 1423, Per Nykrog 6239, Stephen Owen 7418, Lino Pertile 3416, Judith Ryan 1135 (on leave spring term), Marc Shell 3176, Susan R. Suleiman 7234, Maria Tatar 3645, William Mills Todd III 1634, Ruth R. Wisse 3177 (on leave spring term), and Jan Ziolkowski 7275*

**\*Comparative Literature 397. Direction of Doctoral Dissertations**

Catalog Number: 0320

*Margaret Alexiou 1214 (on leave spring term), Sacvan Bercovitch 7638, Svetlana Boym 1926, Michel Chaouli 1681, Joaquim-Francisco Coelho 7715, James Engell 8076, Luis M. Girón Negrón 3060, George G. Grabowicz 4511 (on leave spring term), Karl S. Guthke 1715 (on leave fall term), Alan Heimert 1631 (on leave 1999-00), Barbara E. Johnson 7626, Walter Kaiser 2561, Robert Kiely 1621, James L. Kugel 7575 (on leave spring term), Francisco Márquez 5064, Sandra Naddaff 7779, Gregory Nagy 1423, Per Nykrog 6239, Stephen Owen 7418, Lino Pertile 3416, Judith Ryan 1135 (on leave spring term), Marc Shell 3176, Susan R. Suleiman 7234,*



*Maria Tatar 3645, William Mills Todd III 1634, Ruth R. Wisse 3177 (on leave spring term), and Jan Ziolkowski 7275*

**\*Comparative Literature 399. Reading and Research**

Catalog Number: 2893

*Margaret Alexiou 1214 (on leave spring term), Sacvan Bercovitch 7638, Svetlana Boym 1926, Michel Chaouli 1681, Joaquim-Francisco Coelho 7715, James Engell 8076, Luis M. Girón Negrón 3060, George G. Grabowicz 4511 (on leave spring term), Karl S. Guthke 1715 (on leave fall term), Alan Heimert 1631 (on leave 1999-00), Barbara E. Johnson 7626, Walter Kaiser 2561, Robert Kiely 1621, James L. Kugel 7575 (on leave spring term), Francisco Márquez 5064, Sandra Naddaff 7779, Gregory Nagy 1423, Per Nykrog 6239, Stephen Owen 7418, Lino Pertile 3416, Judith Ryan 1135 (on leave spring term), Marc Shell 3176, Susan R. Suleiman 7234, Maria Tatar 3645, William Mills Todd III 1634, Ruth R. Wisse 3177 (on leave spring term), and Jan Ziolkowski 7275*

*Note:* Candidates for the doctoral degree in Comparative Literature may pursue advanced studies under the individual supervision of these instructors. Permission to register for this course should be obtained from the instructor whose guidance is sought and from the Chairman of the Department.

## Computer Science

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Division of Engineering and Applied Sciences Offering Instruction in Computer Science*

Michael S. Brandstein, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment

Ugo O. Gagliardi, Gordon McKay Professor of the Practice of Computer Engineering

Steven J. Gortler, Assistant Professor of Computer Science on the Gordon McKay Endowment (*Director of Undergraduate Studies*)

Barbara J. Grosz, Gordon McKay Professor of Computer Science

H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering

Henry H. Leitner, Senior Lecturer on Computer Science

Harry R. Lewis, Gordon McKay Professor of Computer Science and Dean of Harvard College

Michael D. Mitzenmacher, Assistant Professor of Computer Science on the Gordon McKay Endowment

Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences (*Dean of the Division of Engineering and Applied Sciences*)

Anthony G. Oettinger, Gordon McKay Professor of Applied Mathematics and Professor of



### Information Resources Policy

Avi Pfeffer, Instructor in Computer Science on the Gordon McKay Endowment

Michael O. Rabin, Thomas J. Watson, Sr. Professor of Computer Science

Norman Ramsey, Assistant Professor of Computer Science on the Gordon McKay Endowment

Margo I. Seltzer, Associate Professor of Computer Science on the Gordon McKay Endowment

Stuart M. Shieber, Gordon McKay Professor of Computer Science

Michael D. Smith, Associate Professor of Electrical Engineering and Computer Science on the Gordon McKay Endowment

Leslie G. Valiant, Gordon McKay Professor of Computer Science and Applied Mathematics

James H. Waldo, Lecturer on Computer Science

Robert L. Walton, Lecturer on Computer Science

Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science

The Division of Engineering and Applied Sciences offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Recommended curricula may be obtained from the Academic Office, Pierce Hall 212b. 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 212b. 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: General Education 156, Linguistics 112a, 112b, Philosophy 140, 144, Physics 123, Statistics 110, 111, 171.

### **Computer Science 50. Introduction to Computer Science I**

Catalog Number: 4949

*Stuart M. Shieber*

*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 and experimenting with and analyzing software systems.

*Note:* No previous computer experience required.

### **Computer Science 51. Introduction to Computer Science II**

Catalog Number: 3411

*Henry H. Leitner*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Abstract models for computational processes and their concrete realizations. Functional, imperative, and object-oriented styles of programming; processor and memory architectures;



interpretation and compilation of programming languages. State-space search, finite-state processes, formal logic, data and functional abstraction, and syntactic and semantic formalisms as examples of useful abstractions. The engineering of complex software. Laboratory exercises using LISP, C++, and Java.

*Prerequisite:* Computer Science 50 or equivalent.

### **\*Computer Science 91r. Supervised Reading and Research**

Catalog Number: 0361

*Steven J. Gortler*

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

In this course a student may undertake supervised individual study of advanced topics in computer science beyond those covered in regular courses, or may participate in a computer science research project. Students writing theses may enroll in this course while conducting their thesis research and writing. A student wishing to enroll in Computer Science 91r must be accepted by a faculty member who will supervise the course work and will specify the syllabus or project description. A form available in the Division of Engineering and Applied Sciences Academic Office, Pierce Hall 212b, must be filled out with a description of the course work and the basis for its evaluation. This form must be signed by the student and the faculty supervisor and filed in the Academic Office by the date on which study cards are due. A written report of the work carried out in the course is ordinarily required by the beginning of the reading period.

*Note:* Ordinarily, 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.

### ***For Undergraduates and Graduates***

### **Computer Science 121. Introduction to Formal Systems and Computation**

Catalog Number: 0669

*Harry R. Lewis*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 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). M., W., 1–2:30. EXAM GROUP: 6, 7*

Design and analysis of efficient algorithms. Data structure representations and their use for provably efficient implementation of abstract operations: searching, sorting, set manipulation. Memory management. Graph algorithms. General algorithm design techniques.

*Prerequisite:* Computer Science 51; some exposure to discrete applied mathematics, such as Applied Mathematics 106 or 107 or Computer Science 121 or Statistics 110, is helpful.

### **Computer Science 141. Computing Hardware**

Catalog Number: 4357



*Michael D. Smith*

*Half course (fall term). M., W., F., at 9, and laboratory hours to be arranged. EXAM GROUP: 2*  
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:* Computer Science 50.

### **Computer Science 143. Computer Networks**

Catalog Number: 6401

*H. T. Kung*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*  
Architecture, design, and performance of computer networks. Topics include: the Internet protocols, local area networks, performance analysis, queueing theory, congestion control, multicast, quality of service, and network security. Programming exercises on protocol implementation.

*Prerequisite:* Computer Science 51.

### **Computer Science 144. Networks Design Projects**

Catalog Number: 5415

*H. T. Kung*

*Half course (spring term). W., F., 4–5:30. EXAM GROUP: 9*  
Cooperative design and development of a computer network based on new and promising networking concepts which may still be under research. Exploration of real-world design concerns, including survey and critiques of relevant networking literature, early validation of proposed approach, design specification, implementation, testing, and evaluation. Students work in groups, and present weekly status reports. At the end of the class, students will defend their approaches and results in the presence of experts in computer networks.

*Note:* Enrollment is Limited. Preference given to concentrators in Computer Science who are proficient in computer programming.

*Prerequisite:* Computer Science 143 or equivalent experience.

### **[Computer Science 146. Computer Architecture]**

Catalog Number: 6520

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

Review of the fundamental structures in modern processor design. Topics include computer organization, instruction set design, memory system design, pipelining, and other techniques to exploit parallelism. Emphasis on a quantitative evaluation of design alternatives and an understanding of timing issues.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Computer Science 141.

### **Computer Science 148. Introduction to VLSI Design**

Catalog Number: 1772 Enrollment: Limited to 16

*Woodward Yang*

*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 integrated circuits. Topics include basic semiconductor device theory, diodes and MOS transistor operation; integrated circuit fabrication technology, VLSI layout and design rules; NMOS and CMOS circuit design, memory and processor design, advanced VLSI systems architecture; testing of VLSI circuits; and analog CMOS circuit design. CAD tools for design and simulation are used extensively for homework assignments and for a final VLSI design project. High quality projects may be fabricated at an external VLSI foundry.

*Prerequisite:* Computer Science 141 and Engineering Sciences 154, or permission of instructor.

### **Computer Science 152. Principles of Programming Languages**

Catalog Number: 6841

*Norman Ramsey*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Intellectual tools needed to design, evaluate, and choose programming languages. Historical influence of theory, software engineering, and implementation technique on language design. Case studies, reinforced by programming exercises. Emphasizes advanced languages, abstraction mechanisms. Includes functional, object-oriented, and logic paradigms. Focuses on ideas and techniques most relevant to practitioners, but covers theoretical topics crucial for intellectual rigor: specification based on abstract syntax, lambda calculus, type systems, and dynamic semantics. Grounding sufficient to read professional literature.

*Prerequisite:* Students must have good programming skills. Must be comfortable with recursion and with basic mathematical ideas and notations.

### **[Computer Science 153. Principles of Programming Language Compilation]**

Catalog Number: 2842

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

The underlying theory of the implementation of interpreters and compilers for programming languages, associated algorithms, and pragmatic issues. Theoretical emphasis on the relation to programming language theory and practical emphasis on applications outside of programming language implementation proper. Topics include lexical analysis, parsing algorithms, type checking and inference, code generation, run-time issues, optimization.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Computer Science 121 and 152.

### **Computer Science 161. Operating Systems**

Catalog Number: 4347

*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: thread, 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.

*Note:* Open to students who achieved an honor grade (B- or better) in Computer Science 51 and who have experience developing large software systems.

*Prerequisite:* Computer Science 51.



### **Computer Science 165. Introduction to Database Systems**

Catalog Number: 4712

*Ugo O. Gagliardi*

*Half course (fall term). F., 2:30–5:30. EXAM GROUP: 7, 8, 9*

Design principles for modern distributed database systems. Topics include: extended E/R, relational and object-oriented data models; database connectivity and the Java virtual machine; query processing, persistence, concurrency control, back-up and recovery; Web information organization, indexing and retrieval; search engines' architecture and algorithms.

*Prerequisite:* Computer Science 161 or permission of instructor.

### **Computer Science 175. Computer Graphics**

Catalog Number: 3771

*Steven J. Gortler*

*Half course (fall term). W., F., 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 21a or Mathematics 21a, and experience with a large software project (preferably written in C), e.g., Computer Science 153, 161, or 165.

### **Computer Science 181. Intelligent Machines: Perceptual Processes and Stochastic Methods**

Catalog Number: 6454

*Avi Pfeffer*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Introduction to stochastic methods for vision and speech. Markov random fields and hidden Markov models. Statistical pattern recognition and categorization. Neural nets. Bayesian reasoning. Discussion of relevant psychological and neurophysiological results.

*Prerequisite:* Computer Science 51, 121, and Statistics 110, or equivalent.

### **Computer Science 182. Intelligent Machines: Reasoning, Actions, and Plans**

Catalog Number: 0134

*Barbara J. Grosz*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Introduction to AI focused on approaches to problems of reasoning about action. Search and game-playing. Knowledge representation. Partial-order planning; representations of actions; techniques for handling goal interactions. Resource-limited planning; situated agents. Reasoning under uncertainty. Discussion of relevant work in philosophy and decision theory; applications to vision, language, robotics.

*Prerequisite:* Computer Science 51; Computer Science 121 (may be taken concurrently).

***Primarily for Graduates***



### **Computer Science 221. Computational Complexity**

Catalog Number: 5812

*Leslie G. Valiant*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

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, probabilistic, 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., 2:30–4. EXAM GROUP: 16, 17*

Covers topics related to what is done with information before and after it is sent across a network. Themes include compression, cryptography, coding, and information retrieval related to the World Wide Web. Theoretical aspects are emphasized, although current practice and recent advances are also a focus. Requires a major final project.

*Prerequisite:* Computer Science 124.

### **[Computer Science 224r. Randomness in Computation]**

Catalog Number: 3380

*Michael O. Rabin*

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

Exploration of the surprising efficacy of randomization in the solution of algorithmic and general computer science problems. Applications include number theoretic algorithms, cryptographic protocols, computations in finite fields, computational geometry. CS applications will include routing in networks, parallel algorithms, pattern matching, agreement protocols for distributed systems. We shall also deal with programs that check and correct their own work and with Probabilistically Checkable Proofs (PCP). The probability theory prerequisites will be covered.

*Note:* Expected to be given in 2000–01.

### **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, 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 omitted in 2000–01.

### **[Computer Science 228. Computational Learning Theory]**

Catalog Number: 0364

*Leslie G. Valiant*



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

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 2000–01.

*Prerequisite:* Computer Science 121 or equivalent.

### **[Computer Science 231. Parallel Computation]**

Catalog Number: 6999

*Leslie G. Valiant*

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

Models of parallel computation and their relationship: circuits, fixed networks, shared memory, bulk-synchrony. Automatic parallelization and its limits. Parallel algorithms for numerical problems such as solving linear systems. Algorithms for discrete problems such as sorting. Algorithms and programs that are efficiently portable among a variety of parallel architectures.

*Note:* Expected to be given in 2000–01.

### **Computer Science 244. Advanced Networks Design Projects**

Catalog Number: 3018

*H. T. Kung*

*Half course (spring term). W., F., 4–5:30. EXAM GROUP: 9*

The contents and course requirements are similar to those of Computer Science 144, with the exception that students enrolled in Computer Science 244 are expected to devise novel algorithms and protocols, and demonstrate their advantages over existing ones. Substantial implementation and documentation are required.

*Note:* Enrollment is limited. Preference given to graduate students, or upper-class concentrators, in Computer Science who are proficient in computer programming.

*Prerequisite:* Computer Science 143 or equivalent experience.

### **[\*Computer Science 246 (formerly Computer Science 246r). Advanced Computer Architecture]**

Catalog Number: 0979

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

The contents and course requirements are similar to those of Computer Science 146, with the exception that students enrolled in Computer Science 246 are required to conduct extra readings and to complete an additional term project.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Background in computer software and hardware, and permission of the instructor.

### **Computer Science 253. Advanced Principles of Programming Language Compilation**

Catalog Number: 2901

*Michael D. Smith*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

In-depth introduction to compiler optimizations developed to exploit recent advances in



computer architecture. Topics include scalar optimization, instruction scheduling for superscalar and VLIW processors, data dependence analysis, interprocedural analysis on both array and pointer variables, cache optimizations such as blocking and prefetching.

*Prerequisite:* Computer Science 153 or equivalent.

### **\*Computer Science 254r. Programming Methodologies**

Catalog Number: 2767

*Robert L. Walton*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Investigates program analysis, verification, and refinement; programming paradigms including those for parallel and distributed programming; program development and maintenance environments. This year the course will study web computing: schemes for turning the web into a computing resource.

### **\*Computer Science 257. Programming with Concurrency**

Catalog Number: 8581

*Norman Ramsey*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Concurrency, its influence on program structure, its implementation -- according to interests of participants. Threads, communicating processes, second-class and first-class synchronization, mechanisms, concurrent functional programs. Debugging, modelling, and model-checking. Implementation, including synchronization stack management, scheduling, concurrent garbage collection, heap-allocated activations, first-class continuations. Concurrency support in the portable assembly language C--.

*Prerequisite:* Computer Science 161 or permission of the 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). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Examination of the special problems associated with distributive computing, especially those associated with partial failure and intrinsic limitations on global knowledge. The course will emphasize the specification and implementation of high level protocols that allow computational entities to collaborate in the face of these problems. Causal ordering, event and RPC based systems, and security problems in distributed systems will be discussed.

*Prerequisite:* Computer Science 161 or permission of instructor.

**Computer Science 265. Advanced Introduction to Database Systems**

Catalog Number: 4104

*Ugo O. Gagliardi**Half course (fall term). F., 2:30–5:30. EXAM GROUP: 7, 8, 9*

The contents and course requirements are similar to those of Computer Science 165, with the exception that students enrolled in Computer Science 265 are expected to conduct a research project.

*Prerequisite:* Computer Science 161 or permission of instructor.

**Computer Science 275. Advanced Computer Graphics**

Catalog Number: 5495

*Steven J. Gortler**Half course (fall term). W., F., 4–5:30. EXAM GROUP: 9*

The contents and course requirements are similar to those of Computer Science 175, with the exception that students enrolled in Computer Science 275 are required to conduct extra readings and to complete an additional term project.

*Prerequisite:* Computer Science 51, Applied Mathematics 21a or Mathematics 21a, and experience with a large software project (preferably written in C), e.g., Computer Science 153, 161, or 165.

**Computer Science 276r. Computer Graphics, Special Topics**

Catalog Number: 8097

*Steven J. Gortler**Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Seminar examining in detail some specific aspect of computer graphics. Specific topics which change from year to year may include: image based rendering, photo-realistic rendering, geometric representations, representations of motion and animations, computer graphics hardware. Students will make one oral presentation, and create a software implementation of one of the covered concepts.

*Prerequisite:* Computer Science 175 or 275, or permission of instructor.

**Computer Science 279. Topics in Computer-Human Interfaces, Information Retrieval and Visualization**

Catalog Number: 2407 Enrollment: Enrollment may be limited.

*Stuart M. Shieber**Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Seminar providing background and current research in specific topics drawn from one or more of computer-human interfaces, information, retrieval, and information visualization. Intensive lab component emphasizes small group design and implementation of systems in these areas.

*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

*Avi 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.

*Prerequisite:* Computer Science 182, or permission of instructor.

### **Computer Science 283. Computer Vision**

Catalog Number: 4475

*Michael S. Brandstein*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Vision as an ill-posed inverse problem. Regularization. Bayesian approaches to vision. Image enhancement and feature extraction. Structure from motion, texture, shading, and binocular stereo. Active vision.

*Note:* Expected to be omitted in 2000–01.

### **[\*Computer Science 287r. Natural Language Processing]**

Catalog Number: 3306

*Stuart M. Shieber*

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

Principles and techniques of natural language processing, including grammar formalisms, syntactic analysis, semantic interpretation, and associated algorithms.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Computer Science 121 and 152.

### **Computer Science 288. Computational Models of Discourse**

Catalog Number: 1392

*Barbara J. Grosz*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Computational theories of discourse (text and dialogue) structure and processing. Topics include: anaphora, focusing, plans and speech acts, plan recognition algorithms, models of collaborative planning, intonation. Discussion of dialogue and text understanding systems. Application to the design of human-computer interface systems.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Computer Science 182 or 287r or equivalent, or permission of instructor.

### **Computer Science 299r. Special Topics in Computer Science**

Catalog Number: 4592

*Venkatesh Narayanamurti*

*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 A.B./S.M. candidates only. Students must arrange such work with a member of the Division. This course is ordinarily taken with the approval of the

Committee on Higher Degrees in certain cases when a letter grade is required. Applicants should



file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 212b.

***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 311,312. Natural Language Processing, AI Planning, and Collaborative Systems**

Catalog Number: 4677,6223

*Barbara J. Grosz 1599*

**\*Computer Science 315,316. Software Engineering**

Catalog Number: 2402,2403

*Ugo O. Gagliardi 1077*

**\*Computer Science 321,322. Databases, Operating System, and Software Design**

Catalog Number: 4085,4086

*Margo I. Seltzer 3371*

**\*Computer Science 323,324. Programming Languages, Natural Language Processing, and Human-Computer Interfaces**

Catalog Number: 2450,2453

*Stuart M. Shieber 2456*

**\*Computer Science 325. Programming Languages and Tools**

Catalog Number: 8055

*Norman Ramsey 2831*

**\*Computer Science 326. Programming Languages and Tools**

Catalog Number: 0747

*Norman Ramsey 2831*

**\*Computer Science 327,328. Mathematical Logic, Theory of Computation**

Catalog Number: 1160,3576

*Harry R. Lewis 4455*

**\*Computer Science 329,330. Operating System Theory and Architectural Design**

Catalog Number: 6172,2839

*Ugo O. Gagliardi 1077*



**\*Computer Science 345,346. High-Performance Computer Systems**

Catalog Number: 6154,6156

*Michael D. Smith 3372*

**\*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

*Avi Pfeffer 2830*

**\*Computer Science 355,356. Computational Complexity, Parallel Algorithms, Machine Learning, and Neural Computation**

Catalog Number: 0345,0346

*Leslie G. Valiant 7396*

**\*Computer Science 359,360. Online Algorithms and Randomized Algorithms**

Catalog Number: 2104,1477

*Michael D. Mitzenmacher 7748*

**\*Computer Science 375,376. Computer Graphics**

Catalog Number: 6832,7313

*Steven J. Gortler 2824*

## Courses Related to Ethnic Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The following are courses related to themes and issues of ethnicity and race, offered by the Faculty of Arts and Sciences in 1999-2000. Courses appear in 3 categories, the first maintains a primary focus on ethnicity in the United States, the second covers courses related to ethnicity and the United States, and the third covers topics related to ethnicity outside the United States. Several courses are listed in more than one category. These lists serve as a guide for learning more about diversity in American cultures and other societies. The more complete, descriptive *Ethnic Studies Guidebook* is available as of September 1, 1999, at University Hall 17.



*Courses with a Primary Focus of Ethnicity in the United States*

[Afro-American Studies 12. Topics in Afro-American History and Society: Seminar](#)

[Afro-American Studies 124z. Race, Culture, and Identity](#)

[Afro-American Studies 136x. Fiction\(s\) of Race, Fact\(s\) of Racism: Perspectives From South African and Afro-American Literatures](#)

[Afro-American Studies 140. Syncretism: Seminar](#)

[Afro-American Studies 140z. The Other African Americans]

[Afro-American Studies 142. Afro-Latin Society and Politics]

[Afro-American Studies 165. Art and Colonialism]

[English 187c. History in Chicano Literature](#)

[\\*English 297L. U.S. Latino Autobiography](#)

[General Education 175 \(formerly Anthropology 199a\). Native Americans in the 21st Century: Nation-Building I](#)

[\\*Government 1582. Explorations in American National Identity](#)

[Historical Study B-61. The Warren Court and the Pursuit of Justice, 1953–1969]

[\\*History 1635 \(formerly History 1659 and 90h\). Race and Race Relations Since Plessy: Conference Course](#)

[\\*History 1645 \(formerly History 1607\). History of American Immigration: Conference Course](#)

[History 1649. The American West: 1780-1930](#)

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

[Literature and Arts B-78. Soundscapes: World Music at Home and Abroad](#)

[\\*Religion 1005. World Religions in Boston: Research Seminar](#)

[Religion 1007. Religion in Multicultural America]

[Social Analysis 38. Social Stratification](#)

[Sociology 60. Race and Ethnic Relations]

[Sociology 68. Social Movements](#)

[\\*Sociology 96. Individual Community Research Internship](#)

[Sociology 122. Topics in Racial and Ethnic Relations: Conference Course]

[Sociology 124. Social Stratification](#)

[Sociology 135. The Caribbean Experience in America]

[Sociology 166. Poverty, Public Policy, and Controversy]

[\*Sociology 183. Prejudice, Politics, and Society: Conference Course]

[\\*Sociology 188. Lines that Divide: Race, Class, Gender, and Ethnicity in the Ethnographic Tradition: Conference Course](#)

[\*Sociology 189. Culture and Race in the Development of American Society: Conference Course]

[\*Sociology 221. Immigration, Identity and Assimilation: Seminar]

[\*Sociology 239. Racial Identity, Politics, and Public Policy: Seminar]

[\\*Sociology 249. Race and Public Policy: Seminar](#)

[\*Sociology 255. Social Stratification: Seminar]

\*Sociology 300. Workshop on “Race,” Minority Studies and Public Policy

[Spanish 181. Islands and Enclaves: Caribbean Latino Literature in the United States](#)



*Courses Related to Ethnicity and the United States*

[Afro-American Studies 131. Afro-American Literature to the 1920s]  
 [Afro-American Studies 132. Afro-American Literature from the 1920s to the Present]  
[Afro-American Studies 136y. Key texts of the African Decolonization and Afro-American Liberation Movements](#)  
 [Afro-American Studies 136z. Comparative African and African-American Drama: the Dramaturgy of Wole Soyinka and August Wilson]  
 [\*Afro-American Studies 137z (formerly English 90out). Black Women and Their Fiction]  
 [Afro-American Studies 141 (formerly Anthropology 157). Afro-Atlantic Religions]  
 [Afro-American Studies 165z. Art of the African Diaspora: Seminar]  
[Comparative Literature 104. Jewish Autobiography from the Renaissance to the 20th Century](#)  
 [Comparative Literature 106x. Diaspora in Jewish Fiction]  
 [Comparative Literature 166. The Comic Tradition in Jewish Culture]  
[Economics 1357. Historical Perspectives on American Economic Ascendancy](#)  
[Economics 1815 \(formerly Economics 1015\). Social Problems of the American Economy](#)  
[English 17. American Literature from the Beginnings to Whitman](#)  
[Government 90q. U.S. – Latin American Relations](#)  
[\\*Government 2900. U.S.–Latin American Relations](#)  
[Music 208r. Ethnomusicology: Seminar](#)  
 [Psychology 1505. Intergroup Relations]  
[\\*Religion 1506. Interpretations of American Religious History: Seminar](#)  
[Religion 1530r. Religious Values and Cultural Conflict: Seminar](#)  
[Religion 1536. Theology and Culture](#)  
[Religion 1726. Buddhism in America: Seminar](#)  
[Religion 2040. Religion and Human Rights](#)  
[Religion 2042. Religion, Nationalism, and Peace: Seminar](#)  
[Religion 2501. The Religious History of American Women: Seminar](#)  
[\\*Sociology 149. Ethnicity: Comparative and Historical Perspectives: Conference Course](#)  
[Women’s Studies 102 \(formerly Women’s Studies 10c\). Gender and Inequality](#)  
[Women’s Studies 155. Women, Girls, and Poverty: Conference Course](#)

*Courses Related to Ethnicity outside the United States*

[Afro-American Studies 136x. Fiction\(s\) of Race, Fact\(s\) of Racism: Perspectives From South African and Afro-American Literatures](#)  
 [Afro-American Studies 136z. Comparative African and African-American Drama: the Dramaturgy of Wole Soyinka and August Wilson]  
 [Afro-American Studies 141 (formerly Anthropology 157). Afro-Atlantic Religions]  
 [Afro-American Studies 165. Art and Colonialism]  
[Afro-American Studies 165y. African Women in Art and History](#)  
 [Afro-American Studies 165z. Art of the African Diaspora: Seminar]  
[Anthropology 122. Japanese Society and Culture](#)  
 [Anthropology 139. Power, Knowledge, and People in Sub-Saharan Africa]  
 [Anthropology 141. Society and History in Island Southeast Asia]



[\[Anthropology 147. West African Cultures\]](#)  
[\[Anthropology 156. Religions of Mesoamerica\]](#)  
[Anthropology 176. New Perspectives on Political Anthropology in the Contemporary World: Seminar](#)  
[Anthropology 184. Ethnicity in the Americas: The Indian Question](#)  
[Anthropology 213. Theories of Discourse and Culture in the Middle East](#)  
[Anthropology 248. Deep China: What Medical Anthropology and Psychiatry Contribute to the Study of China Today](#)  
[Anthropology 263. Transnationalism, Globalism, and Local Culture](#)  
[Anthropology 265. Latin America in Anthropological Perspective](#)  
[Anthropology 274. Sovereignty, Ethnicity, and Pluralism](#)  
[\[Anthropology 277. Problems in the Analysis of Social Change and Development\]](#)  
[\[Arabic 155. Society and Culture in Modern Arabic Fiction\]](#)  
[Armenian Studies 102. Armenian Civilization](#)  
[\[Chinese History 117. History of Relations between China and Inner Asia I\]](#)  
[\[Chinese History 118. History of Relations between China and Inner Asia II\]](#)  
[Comparative Literature 104. Jewish Autobiography from the Renaissance to the 20th Century](#)  
[\[Comparative Literature 106x. Diaspora in Jewish Fiction\]](#)  
[\[Comparative Literature 166. The Comic Tradition in Jewish Culture\]](#)  
[\\*Eliot 133. The \*Táin\*: The Medieval Irish Saga](#)  
[\\*English 90wp \(formerly \\*English 169\). Black Playwrights of the World](#)  
[\\*English 276x. African-American Literary Tradition](#)  
[Folklore and Mythology 115. The African Oral Tradition](#)  
[Foreign Cultures 19. El poder y lo sagrado: figuras de un conflicto en las literaturas hispanicas](#)  
[Foreign Cultures 46. Caribbean Societies: Socioeconomic Change and Cultural Adaptations](#)  
[\[Foreign Cultures 48. The Cultural Revolution\]](#)  
[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies](#)  
[Foreign Cultures 80. The Cultural Identities of Modern Korea](#)  
[French 70c. Introduction to French Literature III: The Francophone World](#)  
[\[French 188. Women Francophone Writers\]](#)  
[French 190. The Post-Colonial Novel](#)  
[\[French 191. Le roman d' Afrique noire\]](#)  
[French 194. Francophone Film and Cinema](#)  
[\[French 196. Masterpieces of Literature from Africa\]](#)  
[\[French 289r. French African Literature: Seminar\]](#)  
[Government 90ac. Urban Politics](#)  
[\[Government 90jp. The Struggle for Palestine/Israel\]](#)  
[Government 90ke. The Civil Rights and the Anti-Vietnam War Movements: The Changing Locus of Social Movements](#)  
[Government 90km. The Political Economy of Africa](#)  
[Government 90q. U.S. – Latin American Relations](#)  
[\[Government 1207. Comparative Politics of the Middle East\]](#)  
[\[Government 1208. The Politics of Islamic Resurgence\]](#)



[Government 1265. East Asian Political Economies](#)  
[Government 1295. Comparative Politics in Latin America](#)  
[\\*Government 2900. U.S.–Latin American Relations](#)  
[Government 2910. Brazil’s Foreign Policy in the Post-Cold War](#)  
[Hebrew 150a \(formerly Hebrew 150\). Introduction to Rabbinic Literature](#)  
[Hebrew 174. Political Thought: Late Antiquity through the Middle Ages](#)  
[Historical Study A-12. International Conflicts and Cooperation in the Modern World](#)  
[Historical Study A-53. The Chinese Revolutionary Tradition](#)  
[\[Historical Study A-68. The Making and Remaking of the Modern Middle East\]](#)  
[Historical Study A-74. Continuity and Change in Contemporary China: The People’s Republic and Taiwan in the Modern World](#)  
[\[Historical Study A-81. Chinese Emigration in Modern Times\]](#)  
[Historical Study B-64. The Cuban Revolution, 1956–1971: A Self-Debate](#)  
[History 1741. Gender and History in Latin America](#)  
[History 1760b. The History of Latin America, 1914–1998](#)  
[\\*History 1781. Modern Mexican History: Conference Course](#)  
[History 1824a \(formerly Foreign Cultures 36 and History 1824\). China in Modern Times: Conference Course](#)  
[History 1836. Chinese and Indian Diaspora in the Americas](#)  
[History 1906. West Africa from the Earliest Times to 1800](#)  
[History 1908. Rethinking Gender in African History: Conference Course](#)  
[History 1913. 19th and 20th Century South African History](#)  
[History 1914. Histories of the New South Africa: Conference Course](#)  
[Islamic Civilizations 124. Central Asian Culture and Society](#)  
[\[Islamic Civilizations 125. History and Culture of Islamic Peoples of the Former Soviet Union\]](#)  
[Jewish Studies 111. Modern Jewish Thought](#)  
[Jewish Studies 113. Pre-State Israel, 1933-1948, vis-à-vis the British Mandate and Germany’s Rule in Europe: Problems of Structure, Leadership, and Zionist Self-Images](#)  
[Jewish Studies 114. Modern Hebrew Literature in Translation](#)  
[Jewish Studies 116. Messianism, Mysticism and Magic in Modern Jewish Literature](#)  
[\[Jewish Studies 117. Religious Elements in Modern Jewish Poetry\]](#)  
[\[Literature 119. The Holocaust and Problems of Representation\]](#)  
[\[Literature and Arts A-24. Foundational Fictions: The National Romances of Latin America\]](#)  
[Literature and Arts B-78. Soundscapes: World Music at Home and Abroad](#)  
[\[Literature and Arts C-47. Language, Literature, and Power in the Early Modern Hispanic World \(1492–1700\)\]](#)  
[Moral Reasoning 58. Slavery in Western Political Thought](#)  
[Music 190r. Proseminar: Topics in World Music](#)  
[Music 190rr. Proseminar: Topics in World Music](#)  
[Music 208r. Ethnomusicology: Seminar](#)  
[\[Portuguese 121a. Introduction to the Literature of Brazil I\]](#)  
[\[Portuguese 121b. Introduction to the Literature of Brazil II\]](#)  
[Portuguese 242. Brazil Reaches Out and Looks In: Machado de Assis.](#)  
[Religion 11. World Religions: Diversity and Dialogue](#)



**Religion 14. Comparative Religious Ethics: An Introduction to the Study of Religion**

[Religion 1010. Religious Life Among Indigenous Cultures in the Americas]

**Religion 1017. New Religious Movements and Society: Conference Course**

**Religion 1075. Jerusalem: An Interdisciplinary Inquiry**

**Religion 1420. History of Ancient Christianity from the Beginnings to the 4th Century**

[\*Religion 1481. Current Topics in Latin American Religion and Theology: Advanced Seminar]

**Religion 1536. Theology and Culture**

**Religion 2040. Religion and Human Rights**

**Religion 2042. Religion, Nationalism, and Peace: Seminar**

**\*Sociology 149. Ethnicity: Comparative and Historical Perspectives: Conference Course**

[\*Sociology 239. Racial Identity, Politics, and Public Policy: Seminar]

**Spanish 47. Latin American Cultures**

[Spanish 48. Perspectives on Mexico]

**Spanish 71a (formerly Spanish 101a). Spanish American Literature from the Colony to Independence**

**Spanish 71b. Spanish American Literature of the 19th and 20th Centuries**

**Spanish 90f. Latin American Cultural Studies: Critical Perspectives**

[Spanish 90g. Latin Quartet: Vallejo/Huidobro, Neruda/Paz]

[Spanish 90h. Indigenismos]

**Spanish 90i. Modernity and the Limits of Reason in the 20th Century Latin American Narrative: Fantastic and Detective Fiction**

**Spanish 132. Andean Voices, European Writing**

[Spanish 135. Writing Women: Language, Culture, and Difference in 20th-Century Spanish Narrative]

[Spanish 139. Renaissance on the Border: Colonial Latin American Literature and the Formation of a Creole Tradition]

**Spanish 172. Barcelona, fin-de-siècle**

[Spanish 186. Tobacco and Sugar]

[Spanish 189. Colonial, Postcolonial]

**Spanish 191. History, Fiction, and Politics in Latin America**

**Spanish 194. Latino Cultures**

**Spanish 199a. The 19th and 20th Century Latin American and Spanish Narrative, I**

**Spanish 199b. The 19th and 20th Century Latin American and Spanish Narrative, II**

[Spanish 201. The History of the Spanish Language]

[Spanish 243. Foundational Fiction and Film]

[Spanish 261. Writing like a Woman in Latin America]

**Spanish 263. Problems of Representation of Space and Identity in Latin American Literature**

**Spanish 265. A Bilingual Esthetic**

[Spanish 268. Telling Limits in American Ethnic Literatures]

[Spanish 287r. Spanish Literature: Seminar]

**Spanish 295r. Spanish-American Literature: Seminar**

[Women's Studies 134. Women's Writing and Film in Latin America and the Caribbean]

[Yiddish 102r. Modern Yiddish Literature I]



**Yiddish 103r. Modern Yiddish Literature II**  
**[Yiddish 105. Yiddish Language and Linguistic Theory]**

## Dramatic Arts

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

#### *Faculty of the Committee on Dramatics*

Robert Kiely, Donald P. and Katherine B. Loker Professor of English (*Chair*)  
Robert Brustein, Professor of English  
Marjorie Garber, William R. Kenan, Jr. Professor of English  
Harry R. Lewis, Gordon McKay Professor of Computer Science and Dean of Harvard College  
Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature  
Robert J. Orchard, Managing Director of the Loeb Drama Center and the American Repertory Theatre (*ex officio*)  
Peter Sacks, Professor of English and American Literature and Language  
Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value  
Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature  
Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative Literature (*on leave spring term*)

#### *Other Faculty Offering Instruction in Dramatic Arts*

Thomas Derrah, Lecturer on Dramatic Arts  
Jeremy Geidt, Lecturer on Dramatic Arts  
J. Michael Griggs, Technical Director of the Loeb Drama Center and Lecturer on Dramatic Arts  
Claire Mallardi, Lecturer on Dramatic Arts  
Francois Rochaix, Lecturer on Dramatic Arts  
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, 8



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 will be required to attend at least five different productions.) Students will do creative and collaborative work throughout the term, and members of the A.R.T. staff will give guest lectures in their areas of expertise.

**\*Dramatic Arts 11. Beginning Acting**

Catalog Number: 3321 Enrollment: Limited by audition.

*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.

**\*Dramatic Arts 12. Acting Shakespeare**

Catalog Number: 6659 Enrollment: Limited by audition.

*Jeremy Geidt*

*Half course (spring term). W., F., 10–11:30. EXAM GROUP: 3, 4*

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 15. Movement for Actors and Directors**

Catalog Number: 4908

*Half course (spring term). Tu., Th., 4:15–6:15.*

Emphasis on the integration of verbal and non-verbal forms of communication focusing on movement and gesture as means 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 moves in relation to the surrounding space. A physical experiential approach will be practiced through studies that pertain to the actor's presence on stage, concentrating on the structure, organization, and control of time, space, energy, and sound.

**\*Dramatic Arts 18ar. Intermediate and Advanced Acting: 20th-Century Texts**

Catalog Number: 8011 Enrollment: Limited by interview.

*Marcus Stern*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A course of intermediate and advanced acting techniques using 20th-century dramatic texts for scene work. Text analysis and the resulting character intentions and tactics are carefully examined. The goal of the course is to provide the actor with concrete skills that produce tangible results in rehearsal and on stage.

*Note:* This course may be repeated with instructor and advisor approval.



**\*Dramatic Arts 18br. Intermediate Acting: Classical Dramatic Texts**

Catalog Number: 5397 Enrollment: Limited by interview and audition.

*Francois Rochaix and Scott Zigler*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An intermediate acting course designed to make classical dramatic literature accessible and exciting to the contemporary actor. Focus will be on intensive text analysis combined with scene work that will concentrate on the playing of actions and finding the correct behavioral vocabulary for the material.

*Note:* This course may be repeated with instructor and advisor approval.

*Prerequisite:* Auditions consist of a prepared 2-minute monologue from any period presented at the class's first meeting.

**Dramatic Arts 19. Playwriting and Dramatic Technique**

Catalog Number: 8045

*Gideon Michael Lester*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

An investigation of dramatic technique for students with some prior experience of playwriting. The seminar focuses on the structural principles of dramatic composition, examining paradigms from Aristotle to Gertrude Stein, and develops 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:* Admission based on samples of writing submitted to Course Instructor.

**\*Dramatic Arts 22r. Beginning and Intermediate Directing**

Catalog Number: 8160 Enrollment: Limited to 15

*Marcus Stern*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

A directing class for all levels of director and actor, from beginning to advanced. Course examines the directorial tools of text analysis, staging, design, and working with actors through constant scene work. The focus is on understanding texts and explicating your response to those texts on stage. This course is also useful for actors investigating all aspects of theater.

*Note:* This course may be repeated with instructor and advisor approval.

*Prerequisite:* Enrollment contingent on short interviews to be conducted on the first day of class.

**[Dramatic Arts 30. Design for the Theatre: History and Practice]**

Catalog Number: 8617

*J. Michael Griggs*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

The practice of designing scenery for the theatre is explored through the history of stage design and through examples from productions at the Loeb Drama Center. Students complete projects of research and design for plays from various periods. The projects will introduce basic techniques in drawing, drafting, and model making.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***



[[Comparative Literature 151. The Faust Legend in Literature](#)]  
[[German 221. Goethe: Seminar](#)]  
[German 272. Gerhart Hauptmann's Major Plays: Seminar](#)  
[Greek 105. Aristophanes](#)  
[[Greek 106. Greek Tragedy](#)]  
[Literature and Arts A-35. Tragic Drama and Human Conflict](#)  
[Literature and Arts A-40. Shakespeare, The Early Plays](#)  
[[Literature and Arts A-41. Shakespeare, The Later Plays](#)]  
[Literature and Arts B-55. Opera: Perspectives on Music and Drama](#)  
[Literature and Arts C-14. The Concept 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](#)]  
[Visual and Environmental Studies 131. Designing for the Stage: Studio Course](#)  
[\\*Visual and Environmental Studies 132. Projects in Stage Design: Studio Course](#)

## Earth and Planetary Sciences

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Earth and Planetary Sciences*

Michael B. McElroy, Gilbert Butler Professor of Environmental Studies (*Chair*)  
James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry  
Jeremy Bloxham, Professor of Geophysics  
James N. Butler, Gordon McKay Professor of Applied Chemistry (*on leave fall term*)  
Renata Dmowska, Lecturer on Geology  
Adam M. Dziewonski, Frank B. Baird, Jr. Professor of Science  
Göran Ekström, Professor of Geology and Geophysics  
Brian F. Farrell, Robert P. Burden Professor of Meteorology  
Stephen J. Gould, Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Geology  
John M. Hayes, Professor of the Practice of Biogeochemistry  
Paul F. Hoffman, Sturgis Hooper Professor of Geology  
John P. Holdren, Teresa and John Heinz Professor of Environmental Policy (*Kennedy School*)  
Heinrich D. Holland, Harry C. Dudley Professor of Economic Geology  
Daniel J. Jacob, Gordon McKay Professor of Atmospheric Chemistry and Environmental Engineering  
Stein B. Jacobsen, Professor of Geochemistry  
Andrew H. Knoll, Professor of Biology  
Charles R. Marshall, Professor of Biology and of Geology



James J. McCarthy, Alexander Agassiz Professor of Biological Oceanography in the Museum of Comparative Zoology

Richard J. O'Connell, Professor of Geophysics (*Head Tutor*)

James R. Rice, Gordon McKay Professor of Engineering Sciences and Geophysics (*on leave fall term*)

Allan R. Robinson, Gordon McKay Professor of Geophysical Fluid Dynamics

Roberta L. Rudnick, Associate Professor of Geology

Daniel P. Schrag, John L. Loeb Associate Professor of the Natural Sciences

John H. Shaw, Assistant Professor of Structural and Economic Geology

Jeroen Tromp, Professor of Geophysics (*Director of Graduate Studies*)

Nikolaas J. van der Merwe, Landon T. Clay Professor of Scientific Archaeology

Steven C. Wofsy, Abbot Lawrence Rotch Professor of Atmospheric and Environmental Science, Associate of the Harvard Forest

### ***Other Faculty Offering Instruction in the Department of Earth and Planetary Sciences***

James L. Davis, Lecturer on Earth and Planetary Sciences

Ralph Mitchell, Gordon McKay Professor of Applied Biology (*on leave spring term*)

Marcus R. Van Baalen, Lecturer on Earth and Planetary Sciences

*The following courses related to Earth and Planetary Sciences are offered in other departments:*

Biology 107. Evolution of Plant Life in Geologic Time

Biology 118. Biological Oceanography

Engineering Science 162. Hydrology

Engineering Science 166. Air Pollution Modeling and Engineering

### ***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.

#### **[Earth and Planetary Sciences 6. Introduction to Environmental Science: The Solid Earth](#)**

Catalog Number: 2694

*Göran Ekström*

*Half course (spring term). Tu., Th., 11:30–1:00; laboratories and section require one afternoon*



*per week. EXAM GROUP: 13, 14*

An introduction to geology, with emphasis on environmental problems and hazards. Introduction to methods of risk assessment. Natural disasters: earthquakes; volcanos; landslides; floods. Short-and long-term impact of human activity on the geological environment: radon and hazardous materials; drainage patterns and dams; ground water and subsidence. The development of scientific topics will form the bases for discussion of methods of risk reduction through policy and legislation.

*Note:* EPS 6 may not be counted for a degree in addition to EPS 7.

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

Catalog Number: 0918

*Adam M. Dziewonski and Roberta L. Rudnick*

*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*

An introduction to Earth science designed for concentrators in geological, environmental, and geophysical sciences. Origin of the Earth, its age and its evolution with an emphasis on the processes that shaped our planet. The theory of plate tectonics is used as a broad framework to explain the occurrence and distribution of earthquakes, volcanoes and mountains, and to explore the history of the Earth's surface. Labs and the weekend field trip familiarize students with rock types, geological features, and maps, and expose them to how geologists infer processes from the rock record.

*Note:* Also appropriate for non-EPS concentrators who desire a comprehensive introduction to Earth science.

### **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 per week and two one-day field trips. EXAM GROUP: 3*

This course examines the major stages and critical events in the history of the earth with emphasis on the interactions between global tectonics, ocean-atmosphere processes (climate), and biological evolution. We will consider all time scales, 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. Lectures will focus not only on descriptions of critical intervals, but also on what evidence exists to support these descriptions. Laboratories introduce methods of investigation and analysis of the geological record.

*Note:* This is one of three required introductory courses for EPS concentrators, along with EPS5 and EPS7.

*Prerequisite:* Secondary-school courses in science (physics, chemistry, biology) and calculus.

### **[Earth and Planetary Sciences 30. Environmental Microbiology]**

Catalog Number: 4935

*Ralph Mitchell*

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

Microbial processes in natural habitats, including biogeochemical cycles and metal transformations. Evolution of microorganisms and the development of survival strategies are



discussed. Includes discussions of microbial processes in specific habitats including fresh waters, marine, and soil. Emphasis is placed on the effects of environmental deterioration and the responses of the microbial community.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* An introductory biology course, either at the high school or college level.

### **Earth and Planetary Sciences 50. Planetary Materials**

Catalog Number: 4726

*Marcus R. Van Baalen*

*Half course (fall term). M., W., F., at 11, plus three hours per week of laboratory. EXAM GROUP: 4*

An introduction to the physical and chemical properties of rocks and minerals — the materials of the solid Earth and other solar system bodies. Fundamentals of structures, crystal chemistry, mineral physics, and phase equilibria are presented. Explores how the physical properties of rocks and minerals stem from their ordered internal atomic arrangements. Laboratory emphasizes hand sample identification, optical mineralogy, and x-ray diffraction methods.

*Prerequisite:* One basic earth science course (e.g., EPS 7 or Science A-24), and Chemistry 5 or Chemistry 10 (may be taken concurrently).

### **Earth and Planetary Sciences 71. Structural Geology and Tectonics**

Catalog Number: 0319

*John H. Shaw*

*Half course (spring term). Tu., Th., 1–2:30; two hours of laboratory work per week. EXAM GROUP: 15, 16*

An introduction to deformation of Earth materials, including mountain building and plate tectonics, faulting and earthquakes, folding, and ductile deformation. Forces acting on rocks and strains will be examined for a variety of pressure and temperature conditions. Rock fracture and faulting will be studied through numerical approaches, analog experiments, geologic maps, and cross sections. Ductile deformation mechanisms will be examined through microscopic investigation of rock fabrics. Labs will introduce modern applications of structural geology to the energy and environmental industries and for assessing earthquake hazards by using balanced cross sections, seismic reflection data, and satellite imagery.

*Prerequisite:* EPS 7 or permission of instructor.

### **\*Earth and Planetary Sciences 74. Field Geology**

Catalog Number: 7239

*Paul F. Hoffman*

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

Methods of observation and documentation of the Earth's rock record. Approximately four weeks of field observation are followed by the preparation of a detailed geologic report.

*Note:* Students must notify EPS Head Tutor and instructors of intention to enroll by May 1 of the preceding spring term.

*Prerequisite:* EPS 7, 50 and 71, are recommended, or permission of instructor.

### **[Earth and Planetary Sciences 80. Sedimentary Record of Earth History]**

Catalog Number: 4391



*Paul F. Hoffman*

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

Sediments and sedimentary processes on continents, continental margins, and in the oceans. Formation of sedimentary basins in different tectonic settings. Methods used to study and interpret sedimentary records, including sedimentology, stratigraphy, paleomagnetism, stable and radiogenic isotopes, and other geochemical and geophysical techniques. Overview of earth history and the history of life as revealed in the sedimentary record.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* One basic earth science course (e.g., EPS 5, EPS 6, EPS 7, Science A-30, Science A-37, Science B-16, or Science B-34) or permission of the instructor.

### **\*Earth and Planetary Sciences 91r. Supervised Reading and Research**

Catalog Number: 1462

*Richard J. O'Connell 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

*Richard J. O'Connell 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.

### ***For Undergraduates and Graduates***

### **Earth and Planetary Sciences 106. Introduction to Planetary Physics**

Catalog Number: 1021

*Jeremy Bloxham*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

An examination of the fundamental physical processes governing the structure and evolution of planets, and the observations used to constrain models of these processes. Concentrated on the study of Earth. Topics include gravity, rotation, and solar system dynamics; heat transfer and convection; magnetic field generation; seismology and structure of Earth's interior.

*Prerequisite:* Physics 11 or 15, and Applied Mathematics 21 or Mathematics 21, or equivalents.

### **Earth and Planetary Sciences 107. Environmental Geochemistry**

Catalog Number: 1242

*Daniel P. Schrag*

*Half course (spring term). Tu., Th., 10-11:30. One hour each week of laboratory and discussion. EXAM GROUP: 12, 13*

This course offers an overview of low-temperature geochemistry through the treatment of a selection of geochemical issues of environmental significance. The course will contain four



units: Radioactivity, Metals in the Earth, Carbon Cycle, and Climate Change. Each unit will cover issues of environmental significance in the context of a broader geological perspective with particular emphasis on chemical principles. Students from all concentrations are welcome.  
*Prerequisite:* A course in college-level chemistry or permission from the instructor.

### **Earth and Planetary Sciences 108. Environmental Geology and Earth Resources**

Catalog Number: 4116

*Stein B. Jacobsen and John H. Shaw*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

An overview of the Earth's energy/material resources and the occurrence of elements and isotopes of environmental importance. Hydrocarbons (oil, natural gas, coal), nuclear fuels, economically important ores. Scientific methods used to exploit these resources and the environmental impacts of these operations. Distribution of resources and radioactive elements. Methods of discovering and extracting resources. Exploration risks and economics. Radioactive waste. Mitigating environmental hazards. Isotopic tracers of contamination. Distribution of naturally occurring toxic elements. Geochemical transport and kinetics in soils and rocks. Global cycles of toxic elements such as lead and mercury. Volcanism and the chemical composition of volcanic rocks. Dust and meteorites added to the Earth from space.

*Prerequisite:* EPS 6 or 7, Chemistry 5 and 7, and Mathematics 1, or permission of the instructor.

### **Earth and Planetary Sciences 131. Introduction to Physical Oceanography**

Catalog Number: 2249

*Allan R. Robinson*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Elements of the physics and dynamics of the world's oceans. The observational basis and the fundamental concepts and models required for describing and understanding the range of phenomena that occur on many time and space scales. Water masses, circulation, currents, eddies, waves, microstructure, and turbulence. The implication of physical oceanography for interdisciplinary research, including climate and biogeochemical cycles and ecosystems.

*Prerequisite:* Mathematics 21, 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, Physics 11 or 15, or permission of instructor.

### **Earth and Planetary Sciences 133. Introduction to Atmospheric Chemistry**

Catalog Number: 7731

*Daniel J. Jacob*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15*



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 cycles. Climate and the greenhouse effect. Atmospheric transport and turbulence. Stratospheric ozone. Oxidizing power of the atmosphere. Regional air pollution: aerosols, smog, acid rain. Combustion chemistry. Air pollution control engineering.

*Prerequisite:* Physics 1, Chemistry 10 or 7, and Mathematics 1.

### **[Earth and Planetary Sciences 136. Marine Chemistry]**

Catalog Number: 3066

*James N. Butler*

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

Topics: Composition of sea water. Activity coefficients and ion pairs. Alkalinity. Carbon dioxide and carbonate minerals. Ocean-atmosphere interactions. Complexation of trace metals.

Sediment-water interactions. Oxidation and reduction. Nutrient cycling. Interaction of physical, chemical, and biological processes in the ocean. Marine pollution.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Chemistry 10 or equivalent.

### **Earth and Planetary Sciences 137. Biogeochemistry**

Catalog Number: 1923

*John M. Hayes*

*Half course (fall term). W., F., 3–4:15. EXAM GROUP: 8, 9*

The chemistry of carbon and its redox partners in natural environments, specifically processes in the oceanic water column and in sedimentary microbial communities. Organic geochemical and isotopic records of the development of these processes over time and of their effects on the global environment.

*Note:* Expected to be omitted in 2000–01.

### **Earth and Planetary Sciences 140. Geochemical Thermodynamics**

Catalog Number: 1960

*Stein B. Jacobsen*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

An introduction to the application of equilibrium thermodynamics to problems in earth and planetary sciences. The laws of thermodynamics. Thermodynamic functions. Conditions for thermodynamic equilibrium and spontaneous transformations. Systems of variable chemical composition. Partial molar quantities. Selection of components and the Gibbs phase rule. Chemography and petrogenetic grids. Conditions for heterogeneous and homogeneous equilibrium. Equilibrium constants. Fugacities and activities. Entropy of mixing in ideal solid solutions. Calculation of binary and ternary phase diagrams. Conditions for stability. Excess functions. Mixed volatile equilibria. Thermodynamics of aqueous solutions. Examples and problems drawn primarily from igneous and metamorphic petrology and geochemistry.

*Note:* Expected to be omitted in 2000–01. Given in alternate years.

*Prerequisite:* Chemistry 10 or equivalent; 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.*

An introduction to the application of isotope geochemistry to the problems in earth and planetary sciences. The element and isotope distribution in the Earth and the Solar System. Closed system radioactive decay, Isotope fractionation, Mass balance, mixing and dilution. Radiogenic isotopes. Application of Rb-Sr, Sm-Nd, U-Th-Pb, Re-Os and K-Ar isotope systems for geochronology and as tracers for geological processes. Noble gas geochemistry. Extinct nuclides. Cosmogenic nuclides. U-series nuclides and their application to Quaternary chronology. 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 2000–01. Given in alternate years.

*Prerequisite:* Chemistry 10 or equivalent; EPS 6 or 7 or equivalent (recommended).

### **Earth and Planetary Sciences 151. Introduction to Igneous and Metamorphic Petrology**

Catalog Number: 3421

*Roberta L. Rudnick*

*Half course (spring term). M., W., F., at 11, and three hours of laboratory each week, W., at 2.*

*EXAM GROUP: 4*

Focuses on principal environments and processes of formation of common igneous, and metamorphic rocks. Topics include construction and interpretation of phase diagrams; models for melt generation and crystallization; recrystallization processes; thermal models of metamorphism; pressure, temperature, composition, and time as variables. Emphasizes relationship between rock-forming processes and plate tectonic setting. Laboratory examinations of selected rock suites in thin section and hand sample, and analyses of minerals by electron microscope.

*Note:* Recommended for graduate students in petrology and geochemistry.

*Prerequisite:* EPS 50 and EPS 7.

### **Earth and Planetary Sciences 161 (formerly Earth and Planetary Sciences 61). Global Tectonics**

Catalog Number: 1854

*Richard J. O'Connell and Jeroen Tromp*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

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.

*Prerequisite:* One basic earth science course (e.g., EPS 7 or Science A-24) or permission of instructor. *Recommended:* Applied Mathematics or Mathematics 21, Physics 11a or 15a.

### **Earth and Planetary Sciences 166. Introduction to Seismology**

Catalog Number: 1540



*Adam M. Dziewonski*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

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.

*Prerequisite:* Mathematics 21a and 21b or Applied Mathematics 21a and 21b (may be taken concurrently).

### **Earth and Planetary Sciences 167. Applied Geophysics**

Catalog Number: 5143

*Adam M. Dziewonski*

*Half course (spring term). Tu., Th., 10–11:30. One or two days of field work required. EXAM GROUP: 12, 13*

Geophysical methods used to prospect for oil and minerals 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.

*Prerequisite:* Mathematics 21a and 21b or Applied Mathematics 21a and 21b. Some of the required mathematical tools are explained during the course.

### **[Earth and Planetary Sciences 181. Invertebrate Paleontology]**

Catalog Number: 5162

*Andrew H. Knoll and Stephen J. Gould*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 6*

Principles of paleontology and a survey of the major invertebrate taxa. An emphasis on the nature and completeness of the fossil record, taphonomy, taxonomy, systematics, heterochrony, functional and theoretical morphology. Discussion of the importance of fossils for biostratigraphy, paleoecology, and evolutionary theory. Hierarchical views of evolutionary processes: micro- and macroevolution, background and mass extinctions. Morphology and distribution in time and space of fossil invertebrates.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Either Science B-16, Biological Sciences 2 (formerly Biology 2), or permission of instructor.

### ***Cross-listed Courses***

**Anthropology 166. Archaeological Science**

**Biology 107. Evolution of Plant Life in Geologic Time**

**Biology 118. Biological Oceanography**

**Engineering Sciences 123. Introduction to Fluid Mechanics**

**Engineering Sciences 162. Hydrology**

**[Engineering Sciences 166. Principles of Environmental Data Analysis, Measurements, and Modeling]**

***Primarily for Graduates***



### **Earth and Planetary Sciences 200. Atmospheric Chemistry and Physics**

Catalog Number: 2675

*Daniel J. Jacob and Steven C. Wofsy*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

A comprehensive treatment of the chemistry and physics of the atmosphere. Introduction to thermodynamics, kinetics and photochemistry in the atmosphere, with applications to stratospheric and tropospheric chemistry and pollution. Includes fundamentals of radiative transfer and simple models of the influence of trace gases on the earth's climate.

*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 or 15, and Chemistry 10, 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). M., W., 2–3:30. EXAM GROUP: 7, 8*

Comprehensive review of the physics of Earth's interior. Deals primarily with the solid behavior of the Earth. Topics include: continuum mechanics; elastic and viscous materials; physics of solids; thermodynamics; solid body rotational dynamics; and potential theory. Applications include: seismic waves and the structure and state of the Earth's interior; elastic and viscous deformation of the mantle and lithosphere; gravity field; Earth rotation and dynamics; mantle convection and heat transport.

*Prerequisite:* Applied Mathematics 105a and 105b, Physics 15 or equivalent. Preparation should be discussed with the instructor.

### **Earth and Planetary Sciences 202. Introduction to the Dynamics of Atmospheres and Oceans**

Catalog Number: 2624

*Allan R. Robinson*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Conceptual, dynamical and observational bases of the geophysical fluid dynamics of the atmosphere and the ocean. Waves, instabilities and turbulence in rotating stratified fluids. Potential vorticity, quasigeostrophic dynamics, weather and eddies. The general circulations of the atmosphere, the ocean and the coupled air-sea climate system.

*Prerequisite:* Applied Mathematics 105b, Physics 11 or 15, or equivalent.

### **[Earth and Planetary Sciences 205. Inverse Theory and Time Series Analysis]**

Catalog Number: 4426

*Adam M. Dziewonski*

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

Techniques of data analysis and reduction in the Earth sciences. Topics: statistical parameter estimation; Backus-Gilbert linear inference; generalized inversion; stochastic inversion; Bayesian inference and confidence set inference; Fourier series and transforms, discrete Fourier transforms; digital filter design; multichannel filtration.



*Note:* Expected to be given in 2000–01.

*Prerequisite:* Applied Mathematics 105a,b.

### **Earth and Planetary Sciences 206. Space Geodesy for Earth Scientists**

Catalog Number: 8218

*James L. Davis*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Space geodesy for the study of the solid Earth, the atmosphere, and the ocean. The determination of geophysical signals from space geodetic observables. Topics include the Global Positioning System, very long baseline interferometry, satellite-laser ranging, the TOPEX/POSEIDON altimeter, interferometric SAR, and several future space missions.

### **\*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.

### **Earth and Planetary Sciences 221. Topics in Environmental Microbiology**

Catalog Number: 7183

*Ralph Mitchell*

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

Discussion of current research on environmental microbiology. Bioremediation of hazardous chemicals. New approaches to pest control. Ecological disturbances and emergent new diseases. The fate of genetically engineered microorganisms. Indicators of water-borne disease.

*Prerequisite:* An introductory biology course.

### **\*Earth and Planetary Sciences 231. Physical and Dynamical Oceanography**

Catalog Number: 6492

*Allan R. Robinson*

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

Theory and observation of the general ocean circulation and its variabilities; the fields of temperature, salinity, and density of the ocean; relationship to intermediate and small scale transient and turbulent processes. Topics in interdisciplinary dynamics of the sea.

*Prerequisite:* Applied Mathematics 105b or permission of instructor; should ordinarily be taken after EPS 202.

### **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 on a wide range of scales and the relation of these motions to weather and climate. Applications of the equations governing atmospheric dynamics and thermodynamics to specific phenomena



including cyclogenesis, stationary waves, and the formation of fronts.

*Prerequisite:* Applied Mathematics 105b or permission of instructor.

### **Earth and Planetary Sciences 235. Chemical Oceanography**

Catalog Number: 8335

*Heinrich D. Holland*

*Half course (spring term). M., W., 2–4. EXAM GROUP: 7, 8*

Analysis of the oceans and atmosphere as a chemical system today, in the near future, and in the past. Topics include inputs to and outputs from the oceans, internal cycling of elements and compounds, coupling of the geochemical cycle of elements, probable effects of fossil fuel burning on the oceans during the next century, and the chemical evolution of sea water during the last billion years.

*Prerequisite:* Chemistry 10 or 40, EPS 100b, EPS 136 or equivalent, Math 21a.

### **Earth and Planetary Sciences 236. Atmospheric Physics**

Catalog Number: 7250

*Steven C. Wofsy and Daniel J. Jacob*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

A comprehensive treatment of the chemical cycles of gases and aerosols containing carbon, hydrogen, nitrogen, oxygen, and sulfur on the earth. Biological and geochemical mechanisms regulating global processes will be discussed in the framework of observations of the earth system. Global atmospheric change in response to human and natural influences and the origin and evolution of atmospheric gases will be examined.

*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 or 15, and Chemistry 10, or more advanced courses; or permission of the instructors.

### **[Earth and Planetary Sciences 240. Geochemical Kinetics]**

Catalog Number: 0187

*Stein B. Jacobsen*

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

Irreversible thermodynamics, heat flow and diffusion equations and K-U-Th geochemistry. Mass transfer between reservoirs; mantle and crustal evolution, geochemical cycles, determination of temperature-time-pressure histories of rocks from radiogenic isotope systems, geothermometers and geobarometers. Geochemical studies of hydrothermal systems, metasomatism, and diagenesis.

*Note:* Expected to be given in 2000–01. Applied Mathematics 105a,b are recommended. Given in alternate years.

*Prerequisite:* EPS 140, Mathematics 21a,b.

### **Earth and Planetary Sciences 241. Isotope and Trace Element Geochemistry**

Catalog Number: 1680

*Stein B. Jacobsen*

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



Cosmic abundances, meteorites, bulk composition of the Earth's crust and mantle, geochemical cycles, residence times, element partition rules, mixing processes, stable isotopes, radiogenic isotopes, critical evaluation of experimental data. Application of mass spectrometry for the determination of isotope and trace element variations.

*Note:* Expected to be omitted in 2000–01. Given in alternate years.

*Prerequisite:* Mathematics 21a,b, and EPS 140.

### **[Earth and Planetary Sciences 242. Biogeochemistry of Light Stable Isotopes]**

Catalog Number: 8808 Enrollment: Limited to 10.

*Daniel P. Schrag and Nikolaas J. van der Merwe*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

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, applications to climate reconstruction, and multiple stable isotope techniques. Laboratory sessions provide an introduction to analytical methods and include an independent research project.

*Note:* Expected to be given in 2000–01. Given in alternate years.

### **[Earth and Planetary Sciences 247. Graduate Seminar: Crustal Growth Processes]**

Catalog Number: 1222

*Roberta L. Rudnick*

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

Examines the growth and composition of the Earth's continental crust. Specific topics to be covered include: the age of the crust, crustal growth curves and how they are constrained, geophysical models for the structure of the crust, crustal growth (and destruction) processes (e.g., island arc, oceanic plateau accretion, hot spots, crustal delamination, crustal recycling), and crustal composition and how it is determined. The structure of the course will consist of several introductory lectures, reading assignments and discussions arising from these.

*Note:* Expected to be given in 2000–01. Given in alternative years.

### **Earth and Planetary Sciences 260. Topics in Geophysics: The Core-Mantle Boundary**

Catalog Number: 2908

*Jeremy Bloxham, Richard J. O'Connell, and Jeroen Tromp*

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

The course will address the physics and chemistry of the core-mantle boundary region. Topics will include the cooling of the core by the mantle and the thermal and chemical evolution of the core: core-mantle interactions, including the exchange of angular momentum between the core and the nature of D", including constraints on topography on the core-mantle boundary, anisotropy, and low velocity zones.

*Note:* This course will be given simultaneously with a research seminar in the Department of Earth, Atmospheric and Planetary Sciences at MIT and will involve participants from both institutions.

### **[Earth and Planetary Sciences 261. Theoretical Seismology: Free Oscillations and Surface Waves]**

Catalog Number: 1714



*Jeroen Tromp*

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

Theoretical description of the long-period oscillations of the Earth: generalized spherical harmonics, free oscillations of a spherical Earth, moment tensor representation of sources, dispersion, attenuation, mode splitting due to rotation and asphericity, surface waves.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Applied Math 105a,b or EPS 166.

### **Earth and Planetary Sciences 262. Theoretical Seismology: Body Waves**

Catalog Number: 3804

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

Mathematical topics in seismology: wave propagation in layered media, seismic sources, asymptotic ray theory, WKBJ theory, caustics, Maslov theory, body wave scattering, anisotropy, attenuation.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Applied Mathematics 105a,b, or EPS 166.

### **[Earth and Planetary Sciences 263. Earthquake Source Processes]**

Catalog Number: 0542

*Renata Dmowska and James R. Rice*

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

Elastic radiation from faults in relation to source dynamics. Quantification of earthquakes; source parameters and scaling laws. Dynamic fracture theory. Friction laws; effective stress. State of stress in Earth's crust. Strength and rheology of faults. Earthquake instability and rupture propagation models. Spatio-temporal complexity of seismic response. Seismotectonics. Stressing and seismicity in the earthquake cycle. Seismicity rate changes and hazard modification due to nearby earthquakes.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* EPS 166 or equivalent and further advanced 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, focused on Earth's magnetic field. Topics: observations of Earth's and other planets' magnetic fields and field mapping at core boundary; determination of core radius and fluid flow within core; core structure and dynamics; core energetics; rotation and convection; core magnetohydrodynamics and magnetic field generation; kinematic and dynamic dynamo theory.

*Note:* Expected to be omitted in 2000–01.

*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. EXAM GROUP: 16*

Topics in the dynamics of processes in the Earth's interior and the physical properties of the Earth's interior, including: thermal convection and flow in the mantle, heat transport, rheology of the mantle, plate motions, plate deformation, physical properties of rocks and minerals.

**Earth and Planetary Sciences 266r. Topics in Seismology: Earth Structure**

Catalog Number: 2895

*Adam M. Dziewonski*

*Half course (spring term). W., 2:30–5. EXAM GROUP: 7, 8, 9*

Topics in seismology related to investigation of the elastic and anelastic structure of the deep interior of the Earth using normal modes, surface waves, and body waves. Theory, observation, and interpretation. Emphasis on 3-D seismic tomography. Topics vary from year to year.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* EPS 166, Applied Mathematics 105a,b, or equivalent.

**[Earth and Planetary Sciences 268r. Topics in Seismology: Earthquakes]**

Catalog Number: 3021

*Göran Ekström*

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

Topics in seismology related to the earthquake source process. Focuses on observational and computational methods for determining earthquake parameters from seismic data. Kinematic and dynamic models of the earthquake source and their parameterization; modeling of seismic waveforms; inverse methods for parameter estimation. Topics vary from year to year.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* EPS 166, or equivalent.

**[Earth and Planetary Sciences 270. Crustal Deformation]**

Catalog Number: 8230

*John H. Shaw*

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

Interpretation of complex geological structures using seismic reflection profiles, surface geology, remote-sensing imagery, and well logs. Students will construct balanced cross sections and kinematic models, restore sections, and use remote-sensing images to aid geologic mapping. Constraints on active structures and earthquake hazards will also be explored. Independent research project.

*Note:* Expected to be given in 2000–01. Given in alternate years.

**Earth and Planetary Sciences 271r (formerly Earth and Planetary Sciences 271). Supercontinents**

Catalog Number: 2515

*Paul F. Hoffman*

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

Geodynamics of the assembly and fragmentation of supercontinents through geologic time. The relationships of supercontinents to mantle convection and plumes, geomagnetic reversal frequency, and true polar wander. Supercontinents and their effects on ocean circulation, eustasy,



paleoclimates, and biological evolution. Comparrative tectonics of Archean, Proterozoic, and Phanerozoic supercontinents.

*Prerequisite:* Two of EPS 5, EPS 7, EPS 8, or permission of the instructor.

**[Earth and Planetary Sciences 281. Sequence Stratigraphy]**

Catalog Number: 2474

*Paul F. Hoffman and John H. Shaw*

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

The principles and practice of sequence stratigraphy for advanced applications in engineering, hydrology, sedimentology, paleoecology, paleoclimatology, and natural resources. Factors governing changes in sea level, tectonic subsidence and sediment supply. Paleoenvironmental dynamics and resultant stratal geometries of terrigenous, carbonate and mixed depositional systems in various tectonic settings. Recognition and interpretation of sequence boundaries in seismic and outcrop sections. Heirarchies and predictive stacking patterns of unconformity-bounded sequences and sequence sets. Sequence stratigraphy as a conceptual basis for predicting patterns of diagenesis and porosity development. Forward modeling of sedimentary basins.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Previous course in sedimentology or permission of instructor.

***Cross-listed courses***

**[Biology 208. Issues in Paleobiology: Seminar](#)**

***Graduate Courses of Reading and Research***

**\*Earth and Planetary Sciences 330. Kinetics and Photochemistry of Planetary Atmospheres**

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 333. Atmospheric Chemistry: Research Seminar**

Catalog Number: 1510

*Daniel J. Jacob 1781 and Members of the Department*

*Half course (fall term; repeated spring term). Spring: M., at 4.*

*Note:* Meets M., at 4:00 p.m.



**\*Earth and Planetary Sciences 334. Atmospheric Physics and Chemistry**

Catalog Number: 4886  
*Michael B. McElroy 2462*

**\*Earth and Planetary Sciences 335. Physical and Dynamical Oceanography**

Catalog Number: 3095  
*Allan R. Robinson 2133*

**\*Earth and Planetary Sciences 336. Chemistry of Natural Waters**

Catalog Number: 4688  
*James N. Butler 3453 (on leave fall term)*

**\*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 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 344. Topics in Stable Isotope Geochemistry and Geochemical Oceanography**

Catalog Number: 6291  
*Daniel P. Schrag 3054*

**\*Earth and Planetary Sciences 345. Geochemistry**

Catalog Number: 7979  
*Heinrich D. Holland 3877*

**\*Earth and Planetary Sciences 346. Geochemistry**

Catalog Number: 2928  
*Roberta L. Rudnick 1637*

**\*Earth and Planetary Sciences 361. Seismology**

Catalog Number: 0355  
*Jeroen Tromp 3233*



**\*Earth and Planetary Sciences 362. Dynamo Theory: Research Seminar**

Catalog Number: 1840

*Jeremy Bloxham 2047*

**\*Earth and Planetary Sciences 363. Tectonophysics, Earthquake Source Physics**

Catalog Number: 8664

*James R. Rice 7270 (on leave fall term)*

**\*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*

**\*Earth and Planetary Sciences 368. Seismology**

Catalog Number: 4932

*Göran Ekström 2682*

**\*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 383. Paleobiology**

Catalog Number: 7946

*Stephen J. Gould 1707*

**Earth and Planetary Sciences 385. Analytical Paleontology**

Catalog Number: 8129

*Charles R. Marshall 2823 (2823)*

**\*Earth and Planetary Sciences 387. Paleobotany**

Catalog Number: 6983

*Andrew H. Knoll 7425*



# East Asia Programs

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Council on East Asian Studies*

William C. Kirby, Edith and Benjamin Geisinger Professor of History (*Chair*)  
William P. Alford, Henry L. Stimson Professor of Law (*Law School*)  
Peter K. Bol, Harvard College Professor and Professor of Chinese History (*on leave spring term*)  
Harold Bolitho, Professor of Japanese History  
James K.M. Cheng, Librarian of the Yenching Library, Librarian of the Harvard-Yenching Library  
Edwin A. Cranston, Professor of Japanese Literature  
Carter J. Eckert, Professor of Korean History, Director of the Korea Institute  
Andrew Gordon, Professor of History  
William C. Hsiao, K. T. Li Professor of Economics (*Public Health*)  
Akira Iriye, Charles Warren Professor of American History  
Wesley M. Jacobsen, Professor of the Practice of the Japanese Language and Director of the Japanese Language Program  
Arthur Kleinman, Professor of Medical Anthropology in the Faculties of Medicine and Arts and Sciences  
Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations  
Susumu Kuno, Professor of Linguistics (*on leave 1999-00*)  
Leo Ou-Fan Lee, Professor of Chinese Literature  
Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science  
David McCann, Korea Foundation Professor of Korean Literature  
Stephen Owen, James Bryant Conant University Professor  
Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy and Frank W. Taussig Professor of Economics  
Elizabeth J. Perry, Henry Rosovsky Professor of Government  
Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics  
Jay Rubin, Takashima Professor of Japanese Humanities  
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  
Ezra F. Vogel, Henry Ford II Professor of the Social Sciences (*on leave fall term*)  
James L. Watson, John King and Wilma Cannon Fairbank Professor of Chinese Society  
Michael Y. Yoshino, Herman C. Krannert Professor of Business Administration (*Business School*)

By a resolution of the Faculty of Arts and Sciences of April 11, 1972, the Council on East Asian



Studies and its Executive Committee are appointed by the Dean in consultation with the Faculty Council to supervise such interdepartmental and other committees concerned with East Asian Studies as the Dean may designate.

Courses on East Asian languages, early history, literature, and thought are listed under East Asian Languages and Civilizations. Other courses on East Asia are listed under the Core Curriculum, Anthropology, Economics, Fine Arts, Government, History, Linguistics, Psychology, Sociology, and the Study of Religion.

Pamphlets describing the degree programs and course offerings on East Asia may be obtained at the offices of the Committee concerned, listed below.

The Harvard University Asia Center was created in 1997. The Center supports research, teaching, and public programs on Asia throughout the University. The Center's main office is located in Coolidge Hall, on the third floor.

***Faculty of the Standing Committee on the A.M. in Regional Studies–East Asia***

Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History (*Chair*)  
Edwin A. Cranston, Professor of Japanese Literature  
Milan G. Hejtmanek, Assistant Professor of Korean History  
Elizabeth J. Perry, Henry Rosovsky Professor of Government  
Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics

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 Ph.D. 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 Coolidge Hall 102, 1737 Cambridge Street, MA, 02138 or (617) 495-3777.

***Faculty of the Standing Committee on the Ph.D. in History and East Asian Languages***

Harold Bolitho, Professor of Japanese History (*Chair*)  
Peter K. Bol, Harvard College Professor and Professor of Chinese History (*on leave spring term*)  
Carter J. Eckert, Professor of Korean History, Director of the Korea Institute  
Andrew Gordon, Professor of History  
William C. Kirby, Edith and Benjamin Geisinger Professor of History  
Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations

Established in 1941 to administer the Ph.D. in History and Far Eastern Languages, this program was renamed by a Faculty vote of April 11, 1972, without other modification of its program. The Committee, drawn from the two departments of History and of East Asian Languages and Civilizations, administers a program leading to the Ph.D. 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. Further information may be obtained from the office of the Committee, at Coolidge Hall 102, 1737 Cambridge Street, Cambridge, MA, 02138.

### ***Graduate Courses of Reading and Research***

#### **\*Regional Studies — East Asia 300. Reading and Research**

Catalog Number: 4614

*Carter J. Eckert 1178, Andrew Gordon 1891, Akira Iriye 1968, William C. Kirby 3128, Philip A. Kuhn 8051, Elizabeth J. Perry 3074, Michael James Puett 1227 (on leave 1999-00), Masahiro Shimotani 2811, Hue-Tam Ho Tai 6079, Ezra F. Vogel 2273 (on leave fall term), Steven Vogel 1766 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:* Open only to students affiliated with the Regional Studies–East Asia program.

#### **Regional Studies — East Asia 310. Thesis Development**

Catalog Number: 8453

*Peter K. Bol 8014 (on leave spring term), Hue-Tam Ho Tai 6079 and members of the Committee*

Designed to allow students to develop previous research or a previously written paper into the A.M. thesis, under the direction of an appropriate faculty advisor.

*Note:* Open only to students affiliated with the Regional Studies–East Asia program. Counts as course credit, but not towards the basic course requirements for the degree.

## East Asian Languages and Civilizations

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

#### ***Faculty of the Department of East Asian Languages and Civilizations***

Peter K. Bol, Harvard College Professor and Professor of Chinese History (*Chair (on leave spring term)*)

Harold Bolitho, Professor of Japanese History

Mikael Adolphson, Assistant Professor of Japanese History

Irene Tilenius Bloom, Visiting Professor of Chinese Philosophy (*Barnard College (spring term only)*)



James Evert Bosson, Visiting Associate Professor of Inner Asian Studies  
 Craig Butler, Preceptor in Chinese  
 Eileen Cheng-yin Chow, Instructor in Chinese Literary and Cultural Studies  
 Albert M. Craig, Harvard-Yenching Professor of History, Emeritus  
 Kwang-Chih Chang, John E. Hudson Professor of Archaeology, Emeritus  
 Edwin A. Cranston, Professor of Japanese Literature  
 Carter J. Eckert, Professor of Korean History, Director of the Korea Institute  
 Yu Feng, Preceptor in Chinese  
 Robert M. Gimello, Visiting Professor of East Asian Studies and Religious Studies  
 Andrew Gordon, Professor of History  
 Patrick D. Hanan, Victor S. Thomas Research Professor of Chinese Literature (*Emeritus*)  
 Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society  
 Baozhang He, Senior Preceptor in Chinese and Director of the Chinese Language Program  
 Milan G. Hejtmánek, Assistant Professor of Korean History  
 Wenze Hu, Preceptor in Chinese  
 Jiha Hwang, Preceptor in Korean  
 Robert P. Hymes, Visiting Professor of Chinese History (*Columbia University*) (*spring term only*)  
 Wilt Lukas Idema, Visiting Professor of East Asian Languages and Civilizations (fall term) and Professor of Chinese Literature (spring term) (*University of Leiden*)  
 Wesley M. Jacobsen, Professor of the Practice of the Japanese Language and Director of the Japanese Language Program  
 Seung-Hee Jeon, Teaching Fellow in Literature, Preceptor in Korean  
 Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations  
 Leo Ou-Fan Lee, Professor of Chinese Literature  
 Aimin Li, Preceptor in Chinese  
 Yuehua Liu, Preceptor in Chinese  
 Satomi Matsumura, Senior Preceptor in Japanese  
 David McCann, Korea Foundation Professor of Korean Literature  
 Kenichi Miura, Preceptor in Japanese  
 Masatoshi Nagatomi, Professor of Buddhist Studies, Emeritus  
 Kiyomi Nakamura, Preceptor in Japanese  
 Binh Ngo, Preceptor in Vietnamese  
 Yori Oda, Senior Preceptor in Japanese  
 Stephen Owen, James Bryant Conant University Professor  
 Michael James Puett, John L. Loeb Associate Professor of the Humanities (*on leave 1999-00*)  
 Paul Rouzer, Preceptor in Literary Chinese  
 Jay Rubin, Takashima Professor of Japanese Humanities  
 Atsuko Sakaki, Associate Professor of Japanese 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

***Committee for the Social Science Program in East Asian Studies of the Department of East Asian Languages and Civilizations***



Andrew Gordon, Professor of History (*Chair*)  
 Carter J. Eckert, Professor of Korean History, Director of the Korea Institute  
 William C. Kirby, Edith and Benjamin Geisinger Professor of History  
 Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics  
 Ezra F. Vogel, Henry Ford II Professor of the Social Sciences (*on leave fall term*)  
 James L. Watson, 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.”

In May 1990, the Faculty voted to merge the two undergraduate concentrations of East Asian Languages and Civilizations and of East Asian Studies into a single concentration under the Department of East Asian Languages and Civilizations. During the transitional year of 1990–91, there were two separate concentrations, but all sophomores entered the merged program. As of 1991–92, the name of the concentration was changed to East Asian Studies. All sophomores and juniors are part of the merged program, and there is a single administration under the Department of East Asian Languages and Civilizations.

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. For further information about the merger and requirements, contact the main office of East Asian Studies located at 9 Kirkland Place.

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.

## ***Tutorials in East Asian Studies***

### ***Primarily for Undergraduates***

#### **\*East Asian Studies 91r. Supervised Reading and Research**

Catalog Number: 0961

*Andrew Gordon 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 EAS Head Tutor required.



**\*East Asian Studies 97r. Tutorial — Sophomore Year**

Catalog Number: 0306

*Milan G. Hejtmanek (fall term), Hue-Tam Ho Tai (spring term) and members of the Department*  
*Half course (fall term; repeated spring term). Spring: Tu., 2–3:30. EXAM GROUP: Spring: 16,*  
*17*

*Note:* Required of sophomore concentrators.

**\*East Asian Studies 98r. Tutorial — Junior Year**

Catalog Number: 0342

*Andrew Gordon 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

*Andrew Gordon and members of the Department*  
*Full course. Hours to be arranged.*

Thesis guidance under faculty direction.

***East Asian Buddhist Studies***

***For Undergraduates and Graduates***

**[\*East Asian Buddhist Studies 114. The Mahayana 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*

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

An exploration of the character of East Asian Mahayana Buddhism as revealed not only in the systematic exposition of its doctrines, but also, and especially, in its cultic practices, beliefs, and iconography. Taking the bodhisattva as both the fullest embodiment of Mahayana's ideals and the chief focus of its piety, this course will trace the transformations wrought in the cults and images of the great bodhisattvas—most particularly Manjusri—from the 2nd through the 12th century in the course of Buddhism's encounter principally with Chinese but also with Korean and Japanese civilization.

*Note:* Expected to be given in 2000–01.

**East Asian Buddhist Studies 116a. Buddhism in East Asia: I-VII Century**

Catalog Number: 9937

*Robert M. Gimello*

*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 of the religion 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.



**East Asian Buddhist Studies 116b. Buddhism in East Asia: VIII-XVI Century**

Catalog Number: 9214

*Robert M. Gimello*

*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.

**East Asian Buddhist Studies 120. Buddhist Apologetics in East Asia**

Catalog Number: 0692

*Robert M. Gimello*

*Half course (fall term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

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 will be considered in light of modern theories of inter-religious dialogue.

*Primarily for Graduates*

**[East Asian Buddhist Studies 206. Hua-yen: The Formation of a Chinese School of Buddhism]**

Catalog Number: 8231

*Robert M. Gimello*

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

Readings in the literature of the early Hua-yen tradition of Buddhist thought and practice (6th through early 9th centuries), selected to allow consideration of the ways in which medieval Chinese Buddhist thinkers, responding to the particular circumstances of Chinese religious life, undertook to reshape the Indian Buddhist worldview so as to establish its consonance with indigenous Chinese concepts, values, and institutions.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Basic knowledge of Classical Chinese required.

**East Asian Buddhist Studies 210r. Topics in East Asian Buddhism**

Catalog Number: 7624

*Robert M. Gimello*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17*

Examination of various themes and issues in the history of medieval and early modern Chinese, Korean, and or Japanese Buddhism.

*Note:* A reading knowledge of Classical Chinese is required.

*Cross-listed courses*

**\*South Asian Buddhist Studies 303 (formerly \*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., 9-11. EXAM GROUP: 2, 3, 11*

Intensive introduction to modern standard (Mandarin) Chinese pronunciation, grammar, conversation, reading, and writing.

*Note:* Satisfies prerequisite for 2nd year Chinese.**Chinese Ba. Elementary Modern Chinese**

Catalog Number: 4375

*Aimin Li and Baozhang He**Half course (fall term). Section I: Tu., Th., at 9; Section II: Tu., Th., at 10; Section III: Tu., Th., at 11; Section IV: Tu., Th., at 2, and three additional hours to be arranged. EXAM GROUP: 6*

Nonintensive introduction to modern Chinese pronunciation, grammar, conversation, reading, and writing.

*Note:* No auditors permitted. May not be taken Pass/Fail.**Chinese Bb. Elementary Modern Chinese**

Catalog Number: 8714

*Aimin Li**Half course (spring term). Section I: Tu., Th., at 9; Section II: Tu., Th., at 11; Section III: Tu., Th., at 2, and three additional hours to be arranged. EXAM GROUP: 6*

Continuation of Chinese Ba.

*Note:* No auditors permitted. May not be taken pass/fail.*Prerequisite:* Chinese Ba or equivalent.**Chinese Bx. Elementary Chinese for Advanced Beginners**

Catalog Number: 7066

*Yuehua Liu and Baozhang He**Half course (fall term). Section I: Tu., Th., at 10; Section II: Tu., Th., at 2; and three additional hours to be arranged. EXAM GROUP: 12*

For students with significant listening and speaking background. Introductory Modern Chinese language course, with emphasis on reading and writing. Covers in one semester the equivalent of Chinese Ba and Bb.

*Note:* No auditors permitted. May not be taken Pass/Fail. Students must pass a test in listening and speaking to take the course.**[Chinese 100 (formerly Chinese 100r). Mandarin Pronunciation and Grammar for Speakers of Cantonese Dialects]**

Catalog Number: 7291

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

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.

*Note:* Expected to be given in 2000–01.

### **Chinese 101a. Intermediate Modern Chinese**

Catalog Number: 4283

*Craig Butler*

*Half course (fall term). Section I: Tu., Th., at 9; Section II: Tu., Th., at 11; Section III: Tu., Th., at 2, and three additional hours to be arranged. EXAM GROUP: 13*

Modern texts, conversation, reading, and composition.

*Prerequisite:* Chinese Bb or equivalent.

### **Chinese 101b. Intermediate Modern Chinese**

Catalog Number: 1702

*Craig Butler*

*Half course (spring term). Section I: Tu., Th., at 10; Section II: Tu., Th., at 11; Section III: Tu., Th., at 2, and drill sections MWF at 9, 10 and 2. EXAM GROUP: 12, 16*

Continuation of Chinese 101a.

### **Chinese 101x. Intermediate Modern Chinese for Advanced Beginners**

Catalog Number: 7034

*Baozhang He*

*Half course (spring term). Section I: Tu., Th., at 10; Section II: Tu., Th., at 1, and three additional hours to be arranged. EXAM GROUP: 12, 16*

Continuation of Chinese Bx. Covers in one semester the equivalent of Chinese 101a and 101b.

### **Chinese 102ab. Intensive Intermediate Modern Standard Chinese**

Catalog Number: 0977

*Full course (spring term). M. through F., 9–11. EXAM GROUP: 2, 3, 11, 12*

Continuation of Chinese Aab.

*Note:* Satisfies prerequisite for 3rd year Chinese.

*Prerequisite:* Chinese Aab, or Ba and Bb, or equivalent.

### **Chinese 105a. Advanced Modern Chinese**

Catalog Number: 6724

*Yu Feng*

*Half course (fall term). Section I: M., W., at 10; Section II: M., W., at 11; Section III: M., W., at 2, and three additional hours to be arranged. EXAM GROUP: 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 105b. Advanced Modern Chinese**

Catalog Number: 2917



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*Half course (spring term). Section I: M., W., at 10; Section II: M., W., at 11; Section III: M., W., at 2, and three additional hours to be arranged. EXAM GROUP: 3, 4*

Continuation of Chinese 105a.

*Note:* Conducted in Chinese.

*Prerequisite:* Chinese 105a.

### **Chinese 108a. Cantonese**

Catalog Number: 0223

*Baozhang He and staff*

*Half course (fall term). Th., 11:30–1, Tu., 2–3:30. EXAM GROUP: 13, 14, 16, 17*

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 108b. Cantonese]**

Catalog Number: 0831

*Baozhang He and staff*

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

Continuation of Chinese 108a.

*Note:* Expected to be given in 2000–01. Primarily intended for non-native speakers who will conduct research in a Cantonese-speaking locale.

*Prerequisite:* Two years formal study of Mandarin and Chinese 108a or equivalent.

### **Chinese 110a. Advanced Readings in Modern Chinese**

Catalog Number: 1945

*Yuehua Liu*

*Half course (fall term). Section I: M., W., F., at 9; Section II: M., W., F., at 1; and 2 additional hours to be arranged. EXAM GROUP: 2*

Rapid reading of selections from books and articles.

*Note:* Conducted in Chinese.

*Prerequisite:* Chinese 105b.

### **Chinese 110b. Advanced Readings in Modern Chinese**

Catalog Number: 6844

*Yuehua Liu*

*Half course (spring term). Section I: M., W., F., at 9; Section II: M., W., F., at 1; and 2 additional hours to be arranged. EXAM GROUP: 2, 6*

Continuation of Chinese 110a.

### **[Chinese 111r (formerly Chinese 111a). Readings in Modern Chinese Literature and Culture]**

Catalog Number: 7049

*Leo Ou-Fan Lee*



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

For graduate students and advanced undergraduates who have taken Chinese 110ab or had equivalent background. Rapid and extensive reading of a large number of primary texts of modern Chinese fiction and prose as well as Chinese scholarly articles and books in order to prepare students to do research.

*Note:* Expected to be given in 2000–01. Conducted entirely in Chinese. Expected to be given in 1999-00.

### **Chinese 113a. Advanced Conversational Chinese**

Catalog Number: 3900

*Yu Feng and staff*

*Half course (fall term). M., W., 3–4:30; Tu., Th., 2–3:30 and one additional hour to be arranged.*

*EXAM GROUP: 8, 9*

Spoken Chinese for advanced students.

*Prerequisite:* Chinese 110a or equivalent.

### **Chinese 113b. Advanced Conversational Chinese**

Catalog Number: 1418

*Yu Feng and staff*

*Half course (spring term). M., W., 2–3:30, and one additional hour to be arranged. EXAM*

*GROUP: 7, 8*

Spoken Chinese for advanced students.

*Prerequisite:* Chinese 100, 113a, or equivalent.

### ***Primarily for Graduates***

### **[Chinese Linguistics 200. Introduction to Teaching of Modern Chinese Language]**

Catalog Number: 5108

*Baozhang He*

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

Introduction to theoretical and practical aspects of teaching Modern Standard Chinese as a second language at the college level. Includes review of concepts and publications relating to recent trends in second language teaching, examination and discussion of specific pedagogical issues and materials concerned with teaching Modern Standard Chinese, and observation of class teaching.

*Note:* Expected to be given in 2000–01.

### ***Literary Chinese Courses***

### **Chinese 106a. Introduction to Literary Chinese**

Catalog Number: 1185

*Paul Rouzer*

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

Basic grammar and the reading of simple texts.

*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

*Paul Rouzer*

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

Continuation of Chinese 106a.

*Prerequisite:* Chinese 106a or permission of instructor.

### Chinese 107a. Intermediate Literary Chinese

Catalog Number: 3343

*Paul Rouzer*

*Half course (fall term). Tu., Th., at 12, and one additional hour to be arranged. EXAM GROUP: 14*

A second-year course in literary Chinese, covering the genres and styles used in the imperial period. Historical, literary, and religious texts in both poetry and prose will be read.

*Prerequisite:* One year of literary Chinese.

### Chinese 107b. Intermediate Literary Chinese

Catalog Number: 6931

*Paul Rouzer*

*Half course (spring term). Tu., Th., at 12, and one additional hour to be arranged. EXAM GROUP: 14*

Continuation of 107a.

*Prerequisite:* Chinese 107a or equivalent.

## ***China: History Courses***

### ***For Undergraduates and Graduates***

#### **[Chinese History 111. Introduction to Chinese History: Pre-Imperial and Imperial China, ca. 1700 B.C.–A.D. 755]**

Catalog Number: 7133

*Michael James Puett*

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

Survey of Chinese history from the Bronze Age to the middle of the T'ang Dynasty. Social, economic, and political institutions analyzed in relation to changes in philosophical and religious beliefs and cultural patterns.

*Note:* Expected to be given in 2000–01. No prior course work in Chinese history is presupposed.

#### **[Chinese History 112. Introduction to Chinese History: Late Imperial China, 755-1700]**

Catalog Number: 7695

*Peter K. Bol*

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

Surveys the changing development of political institutions, social and economic organization, cultural pursuits, and intellectual values from the middle of the T'ang to the early Ch'ing dynasty and current interpretations thereof.

*Note:* Expected to be given in 2000–01.



**[Chinese History 114. Introduction to Inner Asian History: Conference Course]**

Catalog Number: 1850

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

An introduction to historical and cultural themes relevant to the study of Inner Asian history. Themes to be addressed include Inner Asian geography and environment, archaeology, historical sources, the position of Inner Asia in world history from ancient to modern times, environment and nomadic economy, religions, and cultural and intellectual history.

*Note:* Expected to be given in 2000–01.

**[Chinese History 115. Intellectual Change in 17th-Century China: Conference Course]**

Catalog Number: 4806

*Peter K. Bol*

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

Examines the literati search for values in the context of the social and political upheavals of the 17th century. Topics include the growing tensions within neo-Confucianism, the revival of Buddhist and Taoist movements, the impact of the Jesuits, new trends in literature and art, and the emergence of “evidential learning” as a new mode of intellectual activity.

*Note:* Expected to be given in 2000–01.

**[Chinese History 116a (formerly Chinese History 116). Intellectual History of China to the Mid T’ang Dynasty]**

Catalog Number: 1057

*Michael James Puett*

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

A survey of Chinese intellectual history from antiquity to the end of the T’ang dynasty.

*Note:* Expected to be given in 2000–01. No prior coursework in Chinese history is presumed.

**[Chinese History 116b. Intellectual History of China, VIII–XVIII Century: Conference Course]**

Catalog Number: 7083

*Peter K. Bol*

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

Surveys the changes in philosophical, religious, and literary thought from the late T’ang dynasty into the Ch’ing dynasty. Particular attention will be given to the rise of Neo-Confucianism, changes in literary theory, the claims of Buddhist, Taoist, and Christian scholars, and the emergence of “evidential scholarship.”

*Note:* Expected to be given in 2000–01.

**[Chinese History 116c. Modern Chinese Intellectual History]**

Catalog Number: 7223

*Wei-Ming Tu*

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

Explores the important themes and diverse idioms of critical thinking in China’s modern transformation. The course emphasizes the interplay between iconoclastic attacks on the tradition and the enduring habits of the heart in debates on Westernization and modernization. Issues to be



discussed include the impact of the Enlightenment mentality, the rise of Maoism, and the possibility of a “third epoch” of Confucian humanism.

*Note:* Expected to be given in 2000–01.

**[Chinese History 117. History of Relations between China and Inner Asia I]**

Catalog Number: 1671

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*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Examines the political, military, economic, and social aspects of the relationship between China and Inner Asia from the 4th century B.C.E. to the 12th century C.E.

*Note:* Some knowledge of Chinese is recommended but not required.

**[Chinese History 118. History of Relations between China and Inner Asia II]**

Catalog Number: 3074

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

A continuation of Chinese 117. Examines the political, military, economic, and social aspects of the relationship between China and Inner Asia from the 13th to the 20th century.

*Note:* Expected to be given in 2000–01. Some knowledge of Chinese is recommended but not required. Previous enrollment in Chinese History 117 is not a prerequisite.

**[Chinese History 119. The Silk Road: Cultural and Political Interaction on the Trade Routes Across Central Asia]**

Catalog Number: 0933

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

This course is designed to provide students with basic knowledge of the geography and history of the Silk Road from c. 200 BC to its decline in the 16th century. Attention will be given to major political and cultural developments that contributed to the present-day ethnic and religious map of Central Asia, such as the spreading of Islam and the Mongol conquest. It will also examine the flourishing of Eurasian continental trade from the mid-13th to the 14th century and its decline in the age of European maritime explorations and colonial expansionism.

*Note:* Expected to be given in 2000–01.

**[Chinese History 120. History of the Mongol Conquest]**

Catalog Number: 2023

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

Investigates the political, military, cultural, and social significance of the Mongol conquest. Beginning with the rise of the Mongols in the 13th century and the military campaigns waged by them in Asia and Europe, explores questions related to the establishment of the Mongol empire from China to Russia and the Middle East. Assesses the impact of the Mongol conquest on separate societies in both Eastern and Western Eurasia.

*Note:* Expected to be given in 2000–01.



**Chinese History 121. God and Human in Chinese History**

Catalog Number: 8503

*Robert P. Hymes (Columbia University)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Problems in the social and cultural history of Chinese religion, as viewed as much as possible through primary documents in translation. The focus is on the place of religious ideas and practices (including those of the high traditions of Buddhism, Taoism, and Neo-Confucianism) in everyday life, and on the relation of Chinese images of gods, ancestors, ghosts, heavens, and hells to model (explicit and implicit) of human society.

**Chinese History 124. China and Human Rights**

Catalog Number: 8380

*Irene Tilenius Bloom (Barnard College)*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

A study of the history of “rights” thinking in traditional China and of the prospects for rights in China today. Topics include Confucian ideas of human dignity and equality, rights and duties, and the relation between the individual and the collectivity; the development of theories of rights in the 20th century; human rights issues in contemporary China; and the current debate over Asian values and human rights.

*Primarily for Graduates*

**[Chinese History 211. Materials and Methods of Sinology: Proseminar ]**

Catalog Number: 4895

*Michael James Puett*

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

*Note:* Expected to be given in 2000–01.

**Chinese History 223. Social and Cultural History of Chinese Religion: Seminar**

Catalog Number: 7746

*Robert P. Hymes (Columbia University)*

*Half course (spring term). Th., 12–3. EXAM GROUP: 14, 15, 16*

Secondary reading and primary research on religion in Chinese society.

*Prerequisite:* One year of literary Chinese or the equivalent.

**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.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* One year of literary Chinese or the equivalent.

**[Chinese History 225r. Topics in Sung 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 Sung China.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Knowledge of literary Chinese.

**[Chinese History 226. Introduction to Sources for Local History]**

Catalog Number: 7114

*Peter K. Bol*

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

Introduction to the reading and interpretation of various kinds of sources from the Sung, Yuan, and Ming periods useful in the study of local history. Recent scholarship and methodological issues are also discussed.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* One year of literary Chinese or the equivalent.

**[Chinese History 227z. Topics in Middle-Period Sociocultural History: Seminar]**

Catalog Number: 7132

*Peter K. Bol*

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

Examines changes in Chinese society and culture from the Southern Sung period into the mid-Ming period through case studies in local history.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Knowledge of literary Chinese.

**[Chinese History 228. Introduction to Neoconfucianism: Seminar]**

Catalog Number: 7159

*Peter K. Bol*

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

Introduces major Neo-Confucian texts for close reading and analysis. Selections from the writing and records of spoken instruction by Zhou Dunyi, Chang Zai, Cheng Yi, Cheng Hao, Zhu Xi, Lu Jiuyuan, Wang Shouren, and others.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* One year of literary Chinese or the equivalent.

**[Chinese History 229r (formerly Chinese History 227r). Topics in Ming 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 2000–01.

*Prerequisite:* Knowledge of literary Chinese.

**[Chinese History 231. Readings in the Chinese Classics: Mencius](#)**

Catalog Number: 5483

*Irene Tilenius Bloom (Barnard College)*



*Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8*

Study of the Mencius through close reading of extended selections from the Chinese text and discussion of their political, philosophical, religious, and literary significance. Emphasis is on direct encounter with the text itself; we also survey the major Chinese commentaries and sample some of the most interesting secondary literature in Chinese and Western languages.

*Prerequisite:* One year of literary Chinese or the equivalent.

**[Chinese History 232. Topics in Han History: Seminar]**

Catalog Number: 0170

*Michael James Puett*

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

Examines various topics in the history of the Han Dynasty.

*Note:* Expected to be given in 2000–01.

**[Chinese History 235. Topics in Warring States History: Seminar]**

Catalog Number: 1499

*Michael James Puett*

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

Close reading of texts from the Warring States period.

*Note:* Expected to be given in 2000–01.

**[Chinese History 237. Introduction to Shang and Western Zhou Inscriptural Materials: Seminar]**

Catalog Number: 1507

*Michael James Puett*

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

An introduction to the reading of inscriptural materials from the Bronze Age.

*Note:* Expected to be given in 2001–02.

**[Chinese History 240r (formerly Chinese History 240). Readings in Chinese Intellectual History]**

Catalog Number: 7633

*Wei-Ming Tu*

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

An intensive study of selected documents in history and philosophy with emphasis on textual analysis. Focuses on the 17th century thinker Liu Tsung-Chou (Liu Zhong Zhou).

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3520.

*Prerequisite:* Knowledge of literary Chinese.

**[Chinese History 251. Confucian Ethics: Proseminar](#)**

Catalog Number: 2428

*Wei-Ming Tu*

*Half course (spring term). M., 2–5. EXAM GROUP: 7, 8, 9*

An exploration of salient features in the Confucian mode of moral reasoning.

*Note:* Offered jointly with the Divinity School as 3857.



**Chinese History 260. Taoism: Conference Course**

Catalog Number: 6129

*Wei-Ming Tu*

*Half course (spring term). W., 2–5. EXAM GROUP: 7, 8, 9*

Explores a philosophical and religious aspect of the Taoist tradition in China in a historical perspective.

*Note:* Offered jointly with the Divinity School as HDS 3950.

***Cross-listed Courses***

**Historical Study A-13. Tradition and Transformation in East Asian Civilization: China History 1824a (formerly Foreign Cultures 36 and History 1824). China in Modern Times: Conference Course**

**History 2830a. Late Imperial and Modern Chinese History: Conference Course**

**\*History 2831r. Research Topics in Modern Chinese History: Conference Course**

**History 2847. 20th-Century China: Seminar**

**[History 2848a. Introduction to Archival Research in Chinese History: Conference Course]**

**[History 2848b. Introduction to Archival Research in Chinese History: Seminar]**

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

**[Moral Reasoning 40. Confucian Humanism: Self-Cultivation and Moral Community]**

***China: Literature Courses***

***For Undergraduates and Graduates***

**Chinese Literature 120. Contemporary Chinese Fiction and Criticism: Conference Course**

Catalog Number: 8319

*Leo Ou-Fan Lee*

*Half course (spring term). M., W., at 2. EXAM GROUP: 7*

A conference course focusing on fictional works produced in the last two decades by such authors as Mo Yan, Yu Hua, Wang Anyi, Zhu Tianxin, Zhang Dachun, mostly in English translation, together with selected critical works written on them by Chinese scholars. No Chinese required, though graduate students are expected to have at least two years of Chinese.

**Chinese Literature 125. Modern Chinese Literature in Translation**

Catalog Number: 1162

*Eileen Cheng-yin Chow*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Readings of major works in modern Chinese literature, centering on the interaction between literary texts and other cultural, artistic, and social domains from the late 19th century to the present.

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

Catalog Number: 7241

*Eileen Cheng-yin Chow and Leo Ou-Fan Lee*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*



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 and the larger context of 1930s Shanghai urban culture; film’s relationship to literary and pop culture discourses (music, soap opera, fanzines); aesthetic responses to historical crises (Taiwan’s 228 Incident, the Cultural Revolution, 1997 Hong Kong handover), “spectacular” violence and the martial arts genre.

*Note:* Expected to be omitted in 2000–01. Lectures and readings in English, plus weekly film screenings. No prior background in subject matter required.

### **Chinese Literature 150. Diaspora and Transnationalism**

Catalog Number: 1470

*Eileen Cheng-yin Chow*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

In this course we look at the way in which historical and cultural notions of nations, diasporas, and homes, intersect with new economic and social arrangements that have created transnational flows of people across the globe. Readings focus on debates around nationalism, transnationalism, and cultural identity, and their relation to memory, knowledge, and narrative; the question of translated sexualities; hybrid/minority cultural formations; and the role modern mass media has played in creating transnational publics. Theoretical perspectives from Anderson, Appadurai, Bhabha, Chow, Clifford, Gilroy, Hall, Radhakrishnan, Ong, Spivak; creative texts include those by Amitav Ghosh, Ruth Ozeki, Pai Hsien-yung, Salman Rushdie, and films *Mississippi Marsala*, *The Wedding Banquet*, and *Chungking Express*.

### **Chinese Literature 153. Epic Poetry, Narrative Verse, and Prosimetric Literature**

Catalog Number: 1105

*Wilt Lukas Idema (University of Leiden)*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

The Chinese tradition of poetry is overwhelmingly lyrical in nature. This does not mean, however, that narrative poetry and epic dimensions are absent. Moreover, Chinese literature developed as an extremely rich body of chantable literature. Works in these genres tell their stories in an alternation of prose or verse. In this course we will look at the most important genres (*Bianwen*, *Zhugongdiao*, *Cihua*, *Tanci*, *Baojuan*) and discuss some works in detail.

### **Chinese Literature 157. Women’s Writing in Imperial China**

Catalog Number: 8022

*Wilt Lukas Idema (University of Leiden)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

In this course we will consider what kind of women in imperial times wrote what kind of literature, and the changes in these patterns over the centuries. We will not only deal with poetry by women, but also look at other genres, such as drama and verse narrative.

*Primarily for Graduates*

### **Chinese Literature 220. Modern Chinese Literary History: Proseminar**

Catalog Number: 2144

*Leo Ou-Fan Lee*



*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

The historical background, scholarly sources, and analytical approaches in the study of modern Chinese literature.

*Prerequisite:* Command of modern Chinese.

**Chinese Literature 224r (formerly Chinese Literature 224). Topics in Modern Chinese Literature**

Catalog Number: 4997

*Leo Ou-Fan Lee*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Studies of Chinese revolutionary literature in the contemporary period.

*Prerequisite:* Advanced command of modern Chinese.

**Chinese Literature 225. Visual Evidence: Seminar in Modern Chinese Literary Culture**

Catalog Number: 7222

*Eileen Cheng-yin Chow*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Through a broad reading of literary texts and investigations into visual practices (theatre, pictorial press, advertising, early cinema), this course explores the interactions of social context, technology, and culture in late Qing and Republican China, and asks what role material media plays in changing epistemological formations, and in the definition of the 'modern' in Chinese literature. Topics: cultures of leisure and play (youxi); theoretical and methodological issues related to the field; cultural vs. historical modes of reading and perception; canon formation and popular fiction; and what constitutes "the archive" for popular cultural studies.

*Prerequisite:* Advanced command of modern Chinese; ability to read classical Chinese.

**Chinese Literature 229. Reading Classical Prose**

Catalog Number: 5113

*Stephen Owen*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Selected readings in classical prose, with special attention to traditional criticism and interpretation.

*Prerequisite:* Two years of literary Chinese or the equivalent.

**Chinese Literature 251. Readings in Liaozhai Zhiyi**

Catalog Number: 6657

*Wilt Lukas Idema (University of Leiden)*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

In this course we will read a selection of stories from Pu Song ling's masterwork, paying special attention to the development of the text. We will compare the author's own handwritten copy to later manuscripts and the earliest printed versions. We will also look at the annotated editions, and adaptations in various genres.

**Chinese Literature 255. Readings in Yuan Drama**

Catalog Number: 3239

*Wilt Lukas Idema (University of Leiden)*



*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

The course will focus on plays that portray poets during a critical moment in their career. Various stages in the development of the Zaju text will be covered. The differences between the various editions will be discussed in relation to the changing needs of the uses of the texts.

**Chinese Literature 266r. Topics in Classical Chinese Literature: Seminar**

Catalog Number: 6253

*Stephen Owen*

*Half course (fall term; repeated spring term). W., 3–5. EXAM GROUP: 8, 9*

Topic for Fall: Song lyric of the Tang and Song. Topic for Spring: Song lyric of the Yuan, Ming, and Qing.

*Prerequisite:* Two years of literary Chinese.

***Cross-listed Courses***

**[Anthropology 296r. Chinese Social Anthropology: Seminar]**

**Historical Study A-13. Tradition and Transformation in East Asian Civilization: China**

**History 1824a (formerly Foreign Cultures 36 and History 1824). China in Modern Times:**

**Conference Course**

**History 2830a. Late Imperial and Modern Chinese History: Conference Course**

**\*History 2831r. Research Topics in Modern Chinese History: Conference Course**

**[History 2848a. Introduction to Archival Research in Chinese History: Conference Course]**

**[History 2848b. Introduction to Archival Research in Chinese History: Seminar]**

**[Literature and Arts C-49. Cultural China in Contemporary Perspectives]**

**[Moral Reasoning 40. Confucian Humanism: Self-Cultivation and Moral Community]**

***Graduate Courses of Reading and Research***

**\*Chinese 300. Reading and Research**

Catalog Number: 4849

*Peter K. Bol 8014 (on leave spring term), Robert M. Gimello 9240, Patrick D. Hanan 1413 (Emeritus), Baozhang He 3351, Philip A. Kuhn 8051, Leo Ou-Fan Lee 3299, Stephen Owen 7418, Michael James Puett 1227 (on leave 1999-00), Paul Rouzer 3705, and Wei-Ming Tu 7233*

***Japan: Language Courses***

***For Undergraduates and Graduates***

**Japanese Ba. Elementary Japanese**

Catalog Number: 2014

*Satomi Matsumura*

*Half course (fall term). Section I: M., W., F., at 9; Section II: M., W., F., at 10; Section III: M., W., F., at 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 6*

Introduction to modern Japanese: listening, speaking, reading, and writing skills. Mastery of *hiragana*, *katakana*, and approximately 100 Chinese characters.



### **Japanese Bb. Elementary Japanese**

Catalog Number: 8728

*Satomi Matsumura*

*Half course (spring term). Section I: M., W., F., at 9; Section II: M., W., F., at 10; Section III: M., W., F., at 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 6*

Continuation of Japanese Ba. Approximately 150 additional Chinese characters.

*Prerequisite: Japanese Ba or equivalent.*

### **Japanese 101a. Intermediate Japanese**

Catalog Number: 8152

*Kiyomi Nakamura*

*Half course (fall term). Section I: M., W., F., at 9; Section II: M., W., F., at 10; Section III: M., W., F., at 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 6*

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 700 Chinese characters beyond those introduced in Bab.

*Prerequisite: Japanese Bb or equivalent.*

### **Japanese 101b. Intermediate Japanese**

Catalog Number: 6433

*Kiyomi Nakamura*

*Half course (spring term). Section I: M., W., F., at 9; Section II: M., W., F., at 10; Section III: M., W., F., at 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 6*

Continuation of Japanese 101a.

### **Japanese 103a. Modern Written Japanese**

Catalog Number: 4855

*Kenichi Miura*

*Half course (fall term). Section I: M., W., F., at 9; Section II: M., W., F., at 10; Section III: M., W., F., at 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 6*

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 700 additional Chinese characters beyond those introduced in 101ab.

*Prerequisite: Japanese 101b or equivalent.*

### **Japanese 103b. Modern Written Japanese**

Catalog Number: 6904

*Kenichi Miura*

*Half course (spring term). Section I: M., W., F., at 9; Section II: M., W., F., at 10; Section III: M., W., F., at 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2, 3, 6*

Continuation of Japanese 103a.



**Japanese 104a. Advanced Modern Japanese**

Catalog Number: 3688

*Yori Oda*

*Half course (fall term). M. through F., at 9. 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 103b.

**Japanese 104b. Advanced Modern Japanese**

Catalog Number: 8551

*Yori Oda*

*Half course (spring term). M. through F., at 9. EXAM GROUP: 2, 11*

Continuation of Japanese 104a.

**Japanese 106a. Classical Japanese**

Catalog Number: 1492

*Edwin A. Cranston*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Introduction to classical grammar and texts in classical Japanese.

*Prerequisite:* Japanese 103b.

**[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 2000–01.

*Prerequisite:* Japanese 106a or equivalent.

**Japanese 106c. Later Classical Japanese**

Catalog Number: 7307

*Edwin A. Cranston*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Post-Heian writings in Classical Japanese.

*Prerequisite:* Japanese 106a or equivalent.

**[Japanese 107. Japanese Historical Writing]**

Catalog Number: 1293

*Harold Bolitho*

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

An introduction to historical source materials from the Tokugawa period (1600-1868).

*Note:* Expected to be given in 2000–01.

**Japanese 110a. Readings in the Social Sciences**

Catalog Number: 4693

*Yori Oda*



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

Selected readings in contemporary Japanese on topics in economics, sociology, political science, psychology, and cultural studies, supplemented by selections from audiovisual media on current social issues. Discussions in Japanese on related topics. Composition and oral presentation of opinion and research papers.

*Note:* Conducted in Japanese.

*Prerequisite:* Japanese 104b.

### **Japanese 110b. Readings in the Social Sciences**

Catalog Number: 0984

*Yori Oda*

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

Continuation of Japanese 110a.

*Prerequisite:* Japanese 110a.

***Primarily for Graduates***

### **Japanese 209a. Reading Scholarly Japanese for Students of Chinese and Korean**

Catalog Number: 9182

*Wesley M. Jacobsen*

*Half course (fall term). M., W., F., 8:30–10. EXAM GROUP: 1, 2*

Development of skills in reading and translating academic genres of Japanese, with special attention to secondary sources authored by Japanese scholars on topics of relevance to Chinese and Korean studies. Introduction to old kana usage and classical forms commonly used in scholarly writing.

*Prerequisite:* Japanese 101b, and graduate standing in Chinese or Korean.

### **Japanese 209b. Reading Academic 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 1 1/2 hours to be arranged. EXAM GROUP: 2*

Continuation of Japanese 209a.

*Prerequisite:* Japanese 209a.

### **Japanese 211 (formerly Japanese 311). Materials and Methods of Japanese Studies: Proseminar**

Catalog Number: 0987

*Harold Bolitho 1176*

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

Bibliography and techniques of research in Japanese Studies.

***Japan: History Courses***

***For Undergraduates and Graduates***



**Japanese History 111a. The Early History of Japan**

Catalog Number: 3616

*Mikael Adolphson*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

A survey of Japan from its prehistoric origins to the early 1500s, focusing on the emergence of the imperial state, court rulership and the rise of the samurai. Though dominated by the rulership, religions, and lifestyles of courtiers and warriors, the course also explores the cultural context within which elites, commoners, and those in between lived and prospered.

**Japanese History 111b. The Shogun's Realm, 1600–1868: Conference Course**

Catalog Number: 2552

*Harold Bolitho*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Reading and discussion of writings on political institutions, land systems and agriculture, commerce, population, and intellectual and cultural developments from the late 16th to the mid-19th century.

**Japanese History 116a. History of Japanese Religions: Conference Course**

Catalog Number: 0675

*Helen Hardacre*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 16, 17*

A historical overview of Japanese religions from earliest times to 1600.

*Note:* Offered jointly with the Divinity School as 3522.

**Japanese History 116b. History of Japanese Religions: Conference Course**

Catalog Number: 2712

*Helen Hardacre*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 16, 17*

A historical survey of Japanese religions from 1600 to the present.

*Note:* Offered jointly with the Divinity School as 3523.

**Japanese History 117. Religion and Gender in Japanese History: Conference Course**

Catalog Number: 5709

*Helen Hardacre*

*Half course (fall term). W., 3–5. EXAM GROUP: 9*

Examines religions' contribution to the construction of gender, focusing on central images (e.g., the nun, shaman, Buddhist monk, female and male religious founders), and patterns of religious action (e.g., evangelism, shamanism, healing, and prophecy) in relation to changes in marriage, divorce, the practice of medicine, sexuality, and constructions of the body.

*Note:* Offered jointly with the Divinity School as 3811.

**Japanese History 119. From Gods to Sovereigns: The History and Historiography of Early Japan**

Catalog Number: 2510

*Mikael Adolphson*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*



A seminar focusing on important themes and problems based on both translated primary sources and appropriate scholarly works, of early Japan from the emergence of the first stratified societies to the high point of the ancient imperial state.

*Prerequisite:* Japanese History 111a.

*Cross-listed Courses*

**[\\*History 2851. Japanese History: Seminar](#)**

*Primarily for Graduates*

**[Japanese History 211. Sources and Methods of Ancient and Medieval Japan](#)**

Catalog Number: 8174

*Mikael Adolphson*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

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 216 (formerly \*Japanese History 305). Religion in the Edo Period: Seminar]**

Catalog Number: 0401

*Helen Hardacre*

*Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Fall: 7, 8*

The first term concentrates on institutional relations between religion and state, and religious thought, focusing on the first half of the period. The second term will address popular religious life, mass pilgrimage, later nativist thought and religious activity, Shingaku, and the emergence of new religious movements at the end of the period. Virtually all readings will be in Japanese.

*Note:* Expected to be given in 2000–01.

**[Japanese History 224 (formerly Japanese 300). Teaching Japanese Religions: Pedagogical Issues and Course Design]**

Catalog Number: 6117

*Helen Hardacre*

*Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Fall: 8, 9*

Examines pedagogical problems and challenges in the teaching of Japanese religious history. Students will produce sample syllabi for general and specialized courses, following discussion of readings and pedagogical strategies suitable for different institutional settings and levels of student preparation. Intended mainly for graduate students specializing in Japanese religious history.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3803.

**[Japanese History 250. Readings in Tokugawa History](#)**

Catalog Number: 6165

*Harold Bolitho*

*Half course (spring term). W., 10–12. EXAM GROUP: 3, 4*



Graduate colloquium for students preparing for general exams in Tokugawa history or interest in English language historiography of the period.

### ***Japan: Literature Courses***

#### ***For Undergraduates and Graduates***

#### **Japanese Literature 108. Modern Japanese Fiction**

Catalog Number: 7960

*Atsuko Sakaki*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Close reading of modern short stories, with attention to narrative techniques, intertextuality and rhetorical devices. Translation of the primary readings to be assigned for each session.

*Note:* Taught in Japanese.

*Prerequisite:* Japanese 103b or equivalent.

#### **Japanese Literature 115 (formerly Japanese Literature 208). Narrative Strategies in Modern Japanese Fiction**

Catalog Number: 3730

*Atsuko Sakaki*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Discussion of fictional narratives by Natsume Sôseki, Mori Ôgai, Tanizaki Jun'ichirô, Ibuse Masuji, among others, with attention to issues in narratology and post-structuralist narrative studies such as: the voice and perspective, the gender and power relationships of the narrator-narratee-narrated, the act of narration, and metafictional paradox. Readings will also be assigned from secondary and theoretical materials.

*Note:* All readings are available in English.

#### **Japanese Literature 121a. History of Japanese Literature**

Catalog Number: 5891

*Edwin A. Cranston*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

A survey of traditional Japanese literature before the modern era of Western influence.

#### **Japanese Literature 121b. Modern Japanese Literature**

Catalog Number: 1069

*Atsuko Sakaki*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

Readings from canonical novelists, and a survey of modern Japanese literature, on topics such as modernity and tradition; demonstration of Japanese uniqueness and universality; (re)construction of literary genres; canonization and the literary establishment.

#### **[Japanese Literature 130. Perceptions of China in Japanese Literature]**

Catalog Number: 6264

*Atsuko Sakaki*

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



Lectures and discussions on Japanese literary representations of China, the Chinese, and Chineseness, ranging from nationalist resistance to China the hegemonic, to aestheticization of China the exotic/erotic. Required readings are available in English translation, which include: *Tale of Gengi*, *Tale of Middle-Councillor Hamamatsu* (medieval romance); *Haku Rakuten* (Noh play); *Battles of Coxinga* (Kabuki play); *Three-Cornered World* (by Sôseki); *Wild Goose* (by Ogai).

*Note:* Expected to be given in 2000–01.

***Primarily for Graduates***

**Japanese Literature 215. Early Modern Japanese Literature**

Catalog Number: 1988

*Atsuko Sakaki*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

This text examines the literary texts from post-Genroku (early 18th century) until late Meiji (early 20th century), with the focus on quasi-classical Japanese (gi-kobun and kanbun kakikududashi). Texts to be read and discussed include giko monogatari, yomihon, kiko, karon, and hon'yaku bungaku.

*Prerequisite:* Japanese 106a and 106b, or the instructor's permission.

**Japanese Literature 220r (formerly Japanese Literature 220). The Development of Modern Japanese Fiction**

Catalog Number: 1831

*Jay Rubin*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Reading and discussion of major works of prose fiction, with emphasis on the century-long development of modern Japanese prose style and practice in literary translation.

**[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 2000–01.

*Prerequisite:* Japanese 106a or equivalent.

**Japanese Literature 222b. Survey of Japanese Poetry**

Catalog Number: 2311

*Edwin A. Cranston*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

The development of *renga*, *haikai*, and *haiku* to the 18th century.

*Prerequisite:* Japanese 106a or equivalent.

**Japanese Literature 233r. Nara and Heian Court Literature**

Catalog Number: 8614

*Edwin A. Cranston*



*Half course (spring term). Th., 3–5, plus one hour to be arranged. EXAM GROUP: 17, 18*  
Topic: Man Yo Shu.  
*Prerequisite: Japanese 106a or equivalent.*

**Japanese Literature 235. No and Kyogen**

Catalog Number: 0869

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Close reading of No and Kyogen texts, with emphasis on internal structure and correspondences between text and theory.

**[Japanese Literature 240. What is Shosetsu?: A Study of the Genre]**

Catalog Number: 0938

*Atsuko Sakaki*

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

Readings from Japanese critical works on the genre of *shosetsu*, which try define the genre in comparison with pre-existing genres of prose narratives, such as *xiaoshuo*, *gesaku*, the novel, and *monogatari*, and with the focus on the subgenres of *shi-shosetsu*, *fuzoku shosetsu*, and *rekishi-shosetsu*. Occasional references will be made to Euro-American studies of the genre of the novel.

*Note: Expected to be given in 2000–01.*

***Graduate Courses of Reading and Research***

**\*Japanese 300. Reading and Research**

Catalog Number: 4627

*Harold Bolitho 1176, Edwin A. Cranston 1186, Helen Hardacre 3191, Wesley M. Jacobsen 3443, Satomi Matsumura 2665, Yori Oda 2460, Jay Rubin 3544, and Atsuko Sakaki 3543*

***Cross-listed Courses***

**Historical Study A-14. Tradition and Transformation in East Asian Civilization: Japan**

**\*History 2851. Japanese History: Seminar**

[History 2852. Topics in Modern Japanese History: Proseminar]

[Linguistics 174. Tense and Aspect in Japanese]

[Linguistics 175. Structure of Japanese]

[Linguistics 275r. Japanese Syntax: Seminar]

***Korea: Language Courses***

***For Undergraduates and Graduates***

**Korean Ba. Elementary Korean**

Catalog Number: 8739

*Jiha Hwang*

*Half course (fall term). M., W., F., at 11, and two additional hours to be arranged. EXAM GROUP: 4*



Introduction to modern Korean: basic grammar, reading of simple texts, conversational skills, and writing short letters.

### **Korean Bb. Elementary Korean**

Catalog Number: 8718

*Jiha Hwang*

*Half course (spring term). M., W., F., at 11, and two additional hours to be arranged. EXAM GROUP: 4*

Continuation of Korean Ba, with introduction of 150-200 Chinese characters.

*Prerequisite:* Korean Ba or equivalent.

### **Korean 102a. Intermediate Korean**

Catalog Number: 5884

*Seung-Hee Jeon*

*Half course (fall term). M., W., F., at 2, and two additional hours to be arranged. EXAM GROUP: 7*

Mastery of basic grammar through reading and writing. Goals appropriate to second year Korean course including skills necessary for interaction with Koreans in real life settings. Introduction of 150-200 Chinese characters.

*Prerequisite:* Korean Bb or equivalent.

### **Korean 102b. Intermediate Korean**

Catalog Number: 8590

*Seung-Hee Jeon*

*Half course (spring term). M., W., F., at 2, and two additional hours to be arranged. EXAM GROUP: 7*

Continuation of Korean 102a, with introduction of 150-200 Chinese characters.

### **Korean 103a. Advanced Korean**

Catalog Number: 2071

*Seung-Hee Jeon*

*Half course (fall term). Tu., 2-4, Th., 3-5. EXAM GROUP: 16, 17, 18*

Extensive reading of modern Korean texts, principally short stories, newspaper articles, and essays. Regular viewing of videotaped Korean television broadcasts followed by discussion and writing exercises. Approximately 300 Chinese characters to be learned.

*Prerequisite:* Korean 102b or equivalent.

### **Korean 103b. Advanced Korean**

Catalog Number: 2662

*Seung-Hee Jeon*

*Half course (spring term). Tu., Th., 2-4. EXAM GROUP: 16, 17*

Continuation of Korean 103a, with introduction of 300 Chinese characters.

### **Korean 104a (formerly Korean 104). Readings in Contemporary Korean**

Catalog Number: 5723

*Jiha Hwang*



*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Selections from a variety of contemporary Korean texts with emphasis on literature, critical essays, newspaper and journal articles. Films will be shown regularly to serve as the basis for discussions and compositions.

*Note:* Designed for advanced students who wish to accelerate their reading of the language.

*Prerequisite:* Korean 103b or equivalent (including a good working knowledge of Chinese characters).

### **Korean 104b. Readings in Contemporary Korean**

Catalog Number: 3011

*Jiha Hwang*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Continuation of Korean 104a.

## ***Korea: History Courses***

### ***For Undergraduates and Graduates***

### **Korean History 111. Traditional Korea**

Catalog Number: 3709

*Milan G. Hejtmanek*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Survey of the history of Korea, from earliest times to the late 19th century. Examines various interpretive approaches and focuses on development of Korean culture within the political and social context.

### **Korean History 114. Modern Korea**

Catalog Number: 7090

*Carter J. Eckert*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Survey of modern Korea from the late 19th century to the present. Emphasis on nation-building, as well as social, economic, and cultural continuity and change in the context of imperialism, colonialism, national division, the Cold War and globalization.

*Note:* No prior course work in Korean History is presumed.

### **Korean History 118. History of the Chosôn Dynasty: Conference Course**

Catalog Number: 3231

*Milan G. Hejtmanek*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Examines social, political, and economic changes in Korea from the 15th through the 19th centuries. Particular attention will be paid to the social status system, international trade and security relations, factional politics, and economic transformation. No background in Korean language is required.

### **[Korean History 120. Korean Intellectual History: Conference Course]**

Catalog Number: 4056



*Milan G. Hejtmanek*

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

Readings of selected texts and secondary works on Korean Confucianism, Buddhism, and Taoism.

*Note:* Expected to be given in 2000–01.

**[Korean History 124. Japanese Historiography on Korea: Conference Course]**

Catalog Number: 6309

*Milan G. Hejtmanek*

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

Readings of selected secondary works in Japanese on topics in Korean history.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Korean History 111 or equivalent and reading proficiency in Japanese.

*Primarily for Graduates*

**[Korean History 230r \(formerly Korean History 230\). Traditional Korean History: Seminar](#)**

Catalog Number: 4497

*Milan G. Hejtmanek*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Reading and research in Chosôn Dynasty history.

*Prerequisite:* Korean History 111 or equivalent, reading proficiency in Korean and classical Chinese.

**[\*Korean History 253r. Topics in Modern Korean History: Proseminar]**

Catalog Number: 7309

*Carter J. Eckert*

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

Readings of selected secondary works primarily in English on topics in modern Korean history. Designed to introduce students to some of the major historiographical issues in the field.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Korean History 114 or equivalent.

**[\*Korean History 255r. Modern Korean History: Seminar]**

Catalog Number: 0713

*Carter J. Eckert*

*Full course. Hours to be arranged.*

Reading and research in modern Korean history. Students are required to write a project paper based largely on primary materials.

*Note:* Expected to be given in 2000–01.

*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 (spring term). W., 3–5. EXAM GROUP: 8, 9*



Explores the history of the field through an examination of major scholarship. Designed primarily for graduate students preparing for the general examination.

### ***Korea: Literature Courses***

#### ***For Undergraduates and Graduates***

#### **Korean Literature 132. Korean Literature in Translation**

Catalog Number: 7838

*David McCann*

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

A survey of Korean literature in translation, 7th century to the 20th century.

#### ***Primarily for Graduates***

#### **Korean Literature 210. Pre-Modern Korean Literature**

Catalog Number: 6342

*David McCann*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Close reading in a number of literary forms, including the essay, histories, prose fiction, songs, poetry, and p'ansori.

*Prerequisite:* Korean Literature 132 or equivalent.

#### **Korean Literature 212. Modern Korean Poetry**

Catalog Number: 5627

*David McCann*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Major and minor voices in 20th century Korean poetry. Attention to the practices of reading and translation, and to the political contexts of modern Korean poetry.

*Prerequisite:* Korean Literature 132 or equivalent.

#### ***Graduate Courses of Reading and Research***

#### **\*Korean 300. Reading and Research**

Catalog Number: 8122

*Carter J. Eckert 1178, Milan G. Hejtmanek 1719, David McCann 3635, and Edward W. Wagner 1929*

### ***Manchu: Language Courses***

#### ***For Undergraduates and Graduates***

#### **[Manchu A (formerly Manchu Aa). Elementary Manchu]**

Catalog Number: 8961

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



Introduction to Manchu grammar with elementary readings in Manchu script.  
*Note:* Expected to be given in 2000–01.

**[Manchu B (formerly Manchu 103). Advanced Manchu]**

Catalog Number: 1625

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*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 2000–01.

**Manchu C. Advanced Manchu**

Catalog Number: 4190

*James Evert Bosson*

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

Readings in a wide variety of Manchu texts. English to Manchu translation exercises.

**Manchu D. Advanced Manchu**

Catalog Number: 1414

*James Evert Bosson*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

Intensive reading in Manchu archival materials, other historical texts and literary texts. Some texts in pre-diacritical form. English to Manchu translation exercises.

***Graduate Courses of Reading and Research***

**\*Manchu 300. Reading and Research**

Catalog Number: 8735

*James Evert Bosson 2350*

***Mongolian: Language Courses***

***For Undergraduates and Graduates***

**Mongolian A (formerly Mongolian Aa). Elementary Written Mongolian**

Catalog Number: 2965

*James Evert Bosson*

*Half course (fall term). M., W., at 2. EXAM GROUP: 7*

Study of classical Mongolian grammar, with introduction to pre-classical and classical Mongolian texts.

**Mongolian B (formerly Mongolian 101a). Advanced Written Mongolian**

Catalog Number: 8489

*James Evert Bosson*

*Half course (spring term). W., at 2, M., 2–4. EXAM GROUP: 7, 8*



Readings in classical Mongolian texts.  
*Note:* Expected to be omitted in 2000–01.

### ***Graduate Courses of Reading and Research***

#### **\*Mongolian 300. Reading and Research**

Catalog Number: 1345

*Nicola Di Cosmo 1111 (on leave spring term)*

*Half course (fall term).*

### ***Tibetan and Himalayan Studies***

#### ***Cross-listed Courses***

[\*\*Tibetan 205a. Readings in Bilingual Tibetan-Mongol Buddhist Literature\*\*](#)

[\*\*Tibetan 205b. Readings in Bilingual Tibetan-Mongol Buddhist Literature\*\*](#)

### ***Vietnam: Language Courses***

#### ***For Undergraduates and Graduates***

#### [\*\*Vietnamese B. Elementary Vietnamese\*\*](#)

Catalog Number: 6228

*Binh Ngo*

*Full course. M., through F., at 9. EXAM GROUP: 2, 11*

Fall semester will survey 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.

Spring semester will also utilize Vietnamese texts and advertisements to enhance reading skills.

#### [\*\*Vietnamese 101. Intermediate Vietnamese\*\*](#)

Catalog Number: 1685

*Binh Ngo*

*Full course. M., through F., at 10. EXAM GROUP: 3, 12*

Continuation of Vietnamese B. 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.

#### [\*\*Vietnamese 103. Advanced Vietnamese\*\*](#)

Catalog Number: 2491

*Binh Ngo*

*Full course. M., through F., at 11. EXAM GROUP: 4, 13*

Continuation of Vietnamese 101. Development of high proficiency in Vietnamese. Introduction of complex grammar and vocabulary, using 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.

### *Vietnam: History Courses*

#### *Cross-listed Courses*

[History 1820. Premodern Vietnam](#)

[History 1821. Modern Vietnam](#)

[[History 2820. Topics in Vietnamese History](#)]

#### *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*

Jeffrey G. Williamson, Laird Bell Professor of Economics (*Chair*)

Alberto F. Alesina, Professor of Economics and of Government

Robert C. Allen, Visiting Professor of Economics (*University of British Columbia*) (*fall term only*)

Robert J. Barro, Robert C. Waggoner Professor of Economics (*on leave spring term*)

Laurent E. Calvet, Assistant Professor of Economics

John Y. Campbell, Otto Eckstein Professor of Applied Economics

Francesco Caselli, Visiting Assistant Professor of Economics (*University of Chicago*)

Richard E. Caves, Nathaniel Ropes Professor of Political Economy

Gary Chamberlain, Professor of Economics

Richard N. Cooper, Maurits C. Boas Professor of International Economics (*on leave fall term*)

David M. Cutler, Professor of Economics

Martin Feldstein, George F. Baker Professor of Economics

Christopher L. Foote, Assistant Professor of Economics (*Director of Undergraduate Studies*)

Richard B. Freeman, Herbert S. Ascherman Professor of Economics

Benjamin M. Friedman, William Joseph Maier Professor of Political Economy

Drew Fudenberg, Professor of Economics (*on leave fall term*)



Edward L. Glaeser, Professor of Economics  
Claudia Goldin, Professor of Economics  
Jerry R. Green, John Leverett Professor in the University and the David A. Wells Professor of Political Economy  
Zvi Griliches, Paul M. Warburg Professor of Economics (*on leave fall term*)  
Oliver S. Hart, Andrew E. Furer Professor of Economics  
Fumio Hayashi, Visiting Professor of Economics (*University of Tokyo*) (*spring term only*)  
Martin Hellwig, Frank W. Taussig Research Professor in Economics (*Universitat Basel*)  
Elhanan Helpman, Professor of Economics  
Caroline M. Hoxby, Morris Kahn Associate Professor of Economics  
Dale W. Jorgenson, Frederic E. Abbe Professor of Economics (*on leave spring term*)  
Lawrence F. Katz, Professor of Economics  
Janos Kornai, Allie S. Freed Professor of Economics (*on leave 1999-00*)  
Michael Kremer, Professor of Economics  
Rafael La Porta, Assistant Professor of Economics (*on leave 1999-00*)  
David I. Laibson, Paul Sack Associate Professor of Political Economy (*on leave 1999-00*)  
David Sang-Yoon Lee, Assistant Professor of Economics  
Jong-Wha Lee, Lecturer on Economics (*Kennedy School*)  
Judith Li, Assistant Professor of Economics  
N. Gregory Mankiw, Professor of Economics  
Stephen A. Marglin, Walter S. Barker Professor of Economics  
Eric S. Maskin, Louis Berkman Professor of Economics (*on leave 1999-00*)  
John F. McHale, Assistant Professor of Economics  
James L. Medoff, Meyer Kestenbaum Professor of Labor and Industry (*FAS and Kennedy School*) (*on leave fall term*)  
John R. Meyer, James W. Harpel Professor of Capital Formation and Economic Growth (*Kennedy School*)  
Randall Morck, Visiting Professor of Economics (*University of Alberta*)  
Michael P. Murray, Visiting Professor of Economics (*Bates College*)  
Robert H. Neugeboren, Lecturer on Economics  
Ariel Pakes, Professor of Economics  
Theodore Panayotou, Lecturer in Economics (*Kennedy School*)  
Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy and Frank W. Taussig Professor of Economics  
Jack R. Porter, Assistant Professor of Economics  
Ashok S. Rai, Lecturer in Economics (*Kennedy School*)  
Kenneth Rogoff, Professor of Economics  
Alvin E. Roth, Professor of Economics (*FAS*) and Professor of Business Administration (*Business School*)  
Jeffrey D. Sachs, Galen L. Stone Professor of International Trade  
Emmanuel Saez, Assistant Professor of Economics  
Michael A. Schwarz, Assistant Professor of Economics  
Amartya Sen, Visiting Professor of Economics (*Trinity College, Cambridge*) (*spring term only*)  
Masahiro Shimotani, Visiting Professor of Economics  
Andrei Shleifer, Professor of Economics  
Joseph J. Stern, Lecturer in Economics



Marianno Tommasi, Robert F. Kennedy Visiting Professor of Latin American Studies (*Kennedy School*) (*spring term only*)

Aaron Tornell, Associate Professor of Economics (*fall term only*)

Jeffrey R. Vincent, Lecturer in Economics (*Kennedy School*)

Martin L. Weitzman, Ernest E. Monrad Professor of Economics

Jeffrey Wolcowitz, Senior Lecturer on Economics and Associate Dean for Undergraduate Education

Catherine D. Wolfram, Assistant Professor of Economics

### ***Other Faculty Offering Instruction in the Department of Economics***

Robert H. Bates, Eaton Professor of the Science of Government

Lucian Arye Bebchuk, Professor of Law (*Law School*)

Mihir A. Desai, Assistant Professor of Business Administration (*Business School*)

Paul Gompers, Assistant Professor of Business Administration (*Business School*)

Hendrik S. Houthakker, Henry Lee Professor of Economics, Emeritus

William C. Hsiao, K. T. Li Professor of Economics (*Public Health*)

Glenn P. Jenkins (*Associate of the Harvard Institute for International Development*)

John F. Kain, Henry Lee Professor of Economics and Professor of Afro-American Studies, Emeritus

Louis E. Kaplow, Professor of Law (*Law School*)

Joshua Lerner, Associate Professor of Business Administration (*Business School*)

Nolan H. Miller, Cross-listed: Other Faculty (*Kennedy School*)

Robert H. Mnookin, Samuel Williston Professor of Law (*Law School*)

Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*)

Torsten Persson, Visiting Professor of Economics and Frank W. Taussig Research Professor in Economics (*Stockholm University*)

Assaf Razin, Visiting Professor of Economics (*Tel Aviv University*)

Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)

Juliet Schor, Senior Lecturer on Women's Studies

James K. Sebenius, Professor of Business Administration (*Kennedy School*)

Steven Shavell, Professor of Law and Economics (*Law School*)

G. P. Shukla, Lecturer on Public Policy (*Kennedy School*)

Robert N. Stavins, Professor of Public Policy (*Kennedy School*)

James H. Stock, Professor of Political Economy (*Kennedy School*)

Roberto Mangabeira Unger, Professor of Law (*Law School*)

Michael D. Watkins, Assistant Professor of Public Policy (*Kennedy School*)

Shang-Jin Wei, Associate Professor of Public Policy (*Kennedy School*)

Paul C. Weiler, Henry J. Friendly Professor of Law (*Law School*)

Courses numbered 2000–2999 are open to honors undergraduates with the permission of the instructor.

### ***Tutorials and Senior Research Seminars in Economics***



***Primarily for Undergraduates***

**\*Economics 910r. Supervised Reading and Research**

Catalog Number: 1020

*Christopher L. Foote and members of the Department*

*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. Requires signatures of the adviser and of the Head Tutor. Application available at the Economics Tutorial Office at 20 Garden Street.

**\*Economics 970. Tutorial — Sophomore Year**

Catalog Number: 7923 Enrollment: Limited to concentrators.

*Christopher L. Foote, Robert H. Neugeboren and members of the Department*

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

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 980r. Tutorial — Junior Year**

Catalog Number: 3281

*Robert H. Neugeboren and members of the Department*

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

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. Major course requirement is an original research paper each semester. 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

*Michael A. Schwarz*

*Full course. M., 2–4.*

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 985b. Research in Industrial Organization and Regulation**

Catalog Number: 8180

*Catherine D. Wolfram*

*Full course. Th., 4–6.*

Research seminar examining the major issues and approaches in the economics of industrial organization and regulation. 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

*David Sang-Yoon Lee*

*Full course. Tu., 2–4.*

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 senior honors thesis are required.

**\*Economics 985d. Research in Economic Development**

Catalog Number: 4989

*Michael P. Murray (Bates College)*

*Full course. Th., 2–4. EXAM GROUP: 16, 17*

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 Seminar on Macroeconomics**

Catalog Number: 3740

*Francesco Caselli (University of Chicago)*

*Full course. Tu., 2–4.*

Introduces students to major research issues in the field of money, finance, business cycles, and inflation. Initial meetings focus on potential 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

*Full course. M., 2–4.*

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.

*Note:* Expected to be given in 2000–01.

**Economics 985h. Research in Financial Markets**

Catalog Number: 0350

*Randall Morck (University of Alberta)*



*Full course. Th., 2–4.*

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 985j. Research in Urban and Regional Economics, Housing, and Transportation]**

Catalog Number: 2177

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*Full course. Th., 1–3.*

Workshop for seniors writing theses in urban and regional economics, housing, and transportation. Emphasis on choice of research topics and methodology. Written and oral presentations required of work in progress leading to completion of a major research paper or senior honors thesis.

*Note:* Expected to be given in 2000–01.

**Economics 985k. Research in Public Finance**

Catalog Number: 0871

*Emmanuel Saez*

*Full course. Tu., 4–6.*

Research seminar for seniors writing theses in public finance. Written and oral presentations of work-in-progress required. Topics have included taxation, health economics, environmental and resource economics, and education.

**\*Economics 990. Tutorial — Senior Year**

Catalog Number: 7342

*Christopher L. Foote and members of the Department*

*Full course. Workshop meetings to be arranged.*

*Note:* Senior concentrators who are candidates for honors must write a senior thesis. They are required to present the thesis project to either the senior thesis workshop or a research seminar during the fall term. A student should consult a thesis adviser from among Department members and then inform the Tutorial Office of the topic and adviser. Signature of the Head Tutor required. Students must write a 25-page paper during the fall term and make two oral presentations on their thesis work. Students currently enrolled in Economics 985 may not enroll in Economics 990.

***Cross-listed Courses***

**Social Analysis 10. Principles of Economics**

***General Economics; Economic Theory; History of Economic***

***For Undergraduates and Graduates***



### **Economics 1010a. Microeconomic Theory**

Catalog Number: 1862

*Jeffrey Wolcowitz*

*Half course (fall term). M., W., F., at 10, and a 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.

*Prerequisite:* Social Analysis 10 and Mathematics 1a or their equivalents.

### **Economics 1010b. Macroeconomic Theory**

Catalog Number: 2924

*Christopher L. Foote*

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

Theory of determination of national income, employment, prices, and interest rates; related issues of economic growth, fluctuations, and inflation; monetary and fiscal policy.

*Note:* Economics 1010b fulfills the intermediate macroeconomic theory requirement for economics concentrators. Students may take either Economics 1010b or Economics 1011b for credit.

*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

*Michael A. Schwarz*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Economics 1011a is similar to Economics 1010a, but moves at a faster pace and with more use of mathematics. Topics include the theory of the consumer, decisions involving time and risk, the theory of the firm, perfect and imperfect competition, general equilibrium, welfare economics, game theory, and the economics of information. Special applied topics are covered if time permits; the topics this year will be bargaining and auctions, basic asset-pricing theory, and an introduction to law and economics.

*Note:* Economics 1011a fulfills the intermediate microeconomic theory requirement for economics concentrators. Students may take either Economics 1010a or Economics 1011a for credit.

*Prerequisite:* Social Analysis 10 and Mathematics 20 or 21a, or permission of the instructor.

### **Economics 1011b. Macroeconomic Theory**

Catalog Number: 6993

*Francesco Caselli (University of Chicago)*

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

*Prerequisite:* Social Analysis 10. While no specific mathematics course is required, Mathematics 20 or 21 is recommended.

### **[Economics 1030. Delay of Gratification]**

Catalog Number: 4709

*David I. Laibson*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An introduction to economic analysis of intertemporal choice. Analyzes decision problems in which consumers choose between current consumption and delayed consumption (e.g., consuming less today to accumulate resources for retirement, or working hard in school now to achieve a higher standard of living in the future). Surveys normative theories of intertemporal choice, and examines empirical evidence for and against these models. Applications may include the “low” U.S. savings rate, the “high” Japanese savings rate, nondiscretionary savings (e.g., social security), savings behavior in developing countries, intergenerational altruism, investment in human capital, habit formation, regret, impulsiveness, addiction, and procrastination.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 1010a and knowledge of multivariate calculus.

### **Economics 1050. Strategy and Conflict**

Catalog Number: 8506

*Robert H. Neugeboren*

*Half course (spring term). M., W., at 2 with a section to be announced. EXAM GROUP: 7*

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

*Prerequisite:* Social Analysis 10

### **[Economics 1052. Introduction to Game Theory]**

Catalog Number: 2634

*Drew Fudenberg*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 1011a and Mathematics 21b or equivalent.

### **[Economics 1075. The Formation of Economic Analysis]**

Catalog Number: 7148

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*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Explores the development of economic theory from the classical era to postwar general equilibrium theory. Classical value and distribution theory, Marxist economics, neoclassical utility theory, marginal productivity, and competing schools of welfare economics are considered. Particular attention is paid to recurring theoretical dilemmas and to the ability of contemporary theory to supersede earlier systems.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 1010a.

***Primarily for Graduates***

**\*Economics 2010a. Economic Theory**

Catalog Number: 8656

*Oliver S. Hart, Jerry R. Green, and Alvin E. Roth*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Covers the theory of individual behavior including the following topics: constrained maximization, duality, theory of the consumer, theory of the producer, behavior under uncertainty, consumer choice of financial assets, externalities, monopolistic distortions, game theory, oligopolistic behavior, asymmetric information.

*Note:* Enrollment is restricted to students in the economics and business economics Ph.D. programs.

*Prerequisite:* Economics 2030 or equivalent; can be taken concurrently.

**Economics 2010b. Economic Theory**

Catalog Number: 8659

*Drew Fudenberg, Laurent E. Calvet, and Alvin E. Roth*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

General equilibrium, the core, externalities and public goods, moral hazard, social choice theory, signaling, mechanism design.

*Prerequisite:* Economics 2010a.

**Economics 2010c. Economic Theory**

Catalog Number: 2041

*N. Gregory Mankiw and Robert J. Barro*

*Half course (fall term). M., W., 12:30–2. EXAM GROUP: 5, 6*

A basic course in graduate macroeconomics, including models of business fluctuations, growth, and inflation, theories of consumption and investment, and analyses of monetary and fiscal policy.

*Note:* Enrollment is normally limited to students in the economics Ph.D. program, doctoral candidates in a few other designated programs, and well-qualified undergraduates.

*Prerequisite:* Economics 2030 or the equivalent; can be taken concurrently.

**Economics 2010d. Economic Theory**

Catalog Number: 4431

*Alberto F. Alesina and Benjamin M. Friedman*

*Half course (spring term). M., W., 8:30–10. EXAM GROUP: 1, 2*



Theory of economic policy; fiscal policy, monetary policy; macroeconomic theory for the open economy.

*Prerequisite:* Economics 2010c.

**\*Economics 2020a (formerly Economics 2020). Microeconomic Theory I**

Catalog Number: 0339

*Jerry R. Green and Nolan H. Miller (Kennedy School)*

*Half course (fall term). M., W., 8:30–10, plus one section to be arranged. EXAM GROUP: 2*

The theory of microeconomic behavior. Consumption, behavior toward risk, production, markets, game theory. Applications to policy analysis, business decisions, industrial organization, finance, the legal system. Emphasizes the use of economic theory in analyzing and understanding practical problems. This is a comprehensive course in economic theory designed for doctoral students in all parts of the university.

*Note:* Offered jointly with the Kennedy School of Government as API-111, and Harvard Business School as 4401.

*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 Nolan H. Miller (Kennedy School)*

*Half course (spring term). M., W., 8:30–10, plus a one hour section to be arranged. EXAM GROUP: 1, 2*

A continuation of Economics 2020a. Economics of information, bargaining and welfare economics, general equilibrium, incentive theory.

*Note:* Offered jointly with the Kennedy School of Government as API-112, and Harvard Business School as 4402.

*Prerequisite:* Economics 2010a or 2020a.

**Economics 2030. Optimization Theory for Economists**

Catalog Number: 4976

*Martin L. Weitzman*

*Half course (fall term). Tu., Th., F., 1–2:30. EXAM GROUP: 15, 16*

Covers all basic aspects of optimization theory useful to Ph.D.-level economics. Topics include: convex programming, duality theory, linear and non-linear programming, dynamic programming, optimal growth theory, calculus of variations, the maximum principle of optimal control theory. While each topic is treated rigorously, the emphasis is on economic applications. This course could be useful for a graduate student either: needing more exposure to mathematics for economists, or wishing to learn more about optimization theory for economists.

*Prerequisite:* Previous experience with multivariate calculus, basic analysis, and linear algebra.

**Economics 2040. Experimental Economics**

Catalog Number: 8485

*Alvin E. Roth*

*Half course (fall term). F., 9–12. EXAM GROUP: 2, 3, 4*



This course will be an introduction to experimental economics, its methods, and some of the major subject areas that have been addressed by laboratory experiments. An effort will be made to concentrate on a series of experiments, in order to see how experiments build on one another and allow researchers with different theoretical dispositions to narrow the range of potential disagreement.

*Note:* Offered jointly with the Business School as 4257. This course is open to 2nd year graduate students in economics and also to Harvard Business School students. Others welcome to attend with permission of instructor. Classes will meet at the Business School.

### **Economics 2050. General Equilibrium Theory**

Catalog Number: 2279

*Laurent E. Calvet*

*Half course (fall term). F., 2:30–5:30. EXAM GROUP: 7, 8, 9*

Develops the foundations of general equilibrium with an emphasis on financial markets. Topics include regularity and generic structure of equilibria, incomplete markets, default, informational efficiency and dynamic asset pricing.

### **[Economics 2052. Game Theory and Its Applications]**

Catalog Number: 3690

*Eric S. Maskin*

*Half course (spring term). M., 4–6:30. EXAM GROUP: 9*

Classical noncooperative game theory; incomplete information; dynamic and repeated games; economic applications.

*Note:* Expected to be given in 2000–01. Professor Eric Maskin will be teaching this course in the spring at MIT (14.126). Harvard students with the prerequisites are welcome to cross-register.

*Prerequisite:* Economics 1011a, Statistics 100 and Math 21a.

### **[Economics 2054. Social Choice and Welfare Economics]**

Catalog Number: 1118

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A basic course in social choice theory and its economic applications. An examination of "impossibility" results, collective rationality, problems of implementations, domain restrictions of relevance to economic modelling, and interpersonal comparability. Applications will cover a variety of models of resource allocation, and in particular a number of problems of fair allocation.

*Note:* Expected to be given in 2000–01.

### **Economics 2055. Negotiation and Dispute Resolution: Interdisciplinary Research Seminar**

Catalog Number: 3700

*Jerry R. Green, Robert H. Mnookin (Law School), James K. Sebenius (Kennedy School), and Michael D. Watkins (Kennedy School)*

*Full course. Fall: alternate F., 11:30–1:30; Spring: alternate F., 11:30–1:00. EXAM GROUP: Fall: 4, 5; Spring: 5, 6*

This research seminar will be concerned with topics relating to bargaining, negotiation, and dispute resolution. Special emphasis on the effect of laws and the legal system. Perspective of psychology and economics used to study the barriers to negotiated resolution of conflict.

*Prerequisite:* Permission of the instructors.



**[Economics 2056. Topics in Advanced Theory]**

Catalog Number: 3634

*Drew Fudenberg*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

The course will survey recent work on learning and evaluation in games.

*Note:* Expected to be given in 2000–01.

**Economics 2060. Contract Theory**

Catalog Number: 1404

*Oliver S. Hart*

*Half course (fall term). M., W., 1:30–3. EXAM GROUP: 6, 7*

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 2070a. Introduction to Political Economy]**

Catalog Number: 6102

*Stephen A. Marglin*

*Half course (fall term). M., 12–2. EXAM GROUP: 5, 6*

Offers an institutionalist perspective on the economy and economics. Analyzes the historical processes by which land, labor, and capital became commodities, and the processes by which the picture of the modern Western economy as one based on absolute scarcity, unlimited wants, and calculating, maximizing *homo economicus* came to be drawn. Discusses institutional basis of capitalism, relationship of politics to economics, and the limits of economic analysis.

*Note:* Expected to be given in 2000–01.

**[Economics 2074. The Development of Economic Theory]**

Catalog Number: 4368

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*Half course (spring term). F., 12–2. EXAM GROUP: 5, 6*

Controversies in the development of neoclassical economics are examined and evaluated. Topics include: difficulties in marginal productivity and general equilibrium theories of factor pricing, the displacement of cardinal theories of preference by ordinal models, and the rejection of utilitarianism in favor of Paretian welfare economics. The decline of the classical school is also considered.

*Note:* Expected to be given in 2000–01.

**Economics 2075hf. Political Economy: Seminar**

Catalog Number: 7645

*Stephen A. Marglin*

*Half course (spring term). Tu., 10–12. EXAM GROUP: 12, 13*

**Economics 2076. Keynes and the 20th Century**

Catalog Number: 4351

*Stephen A. Marglin*

*Half course (fall term). Tu., 9:30–11:30. EXAM GROUP: 11, 12, 13*



Examines the impact of Keynes on economics and the economy, with special emphasis on alternative readings of the General Theory. Considers both the standard interpretation of Keynes as a theorist of the short run, which allowed the assimilation of Keynesian economics into the mainstream of American economics, and an alternative reading of Keynes as offering a vision of capitalism fundamentally at odds with the vision of neoclassical economics. Attention will be paid both to theory and to the historical context in which the theory developed.

### ***Econometrics and Quantitative Methods***

#### ***For Undergraduates and Graduates***

#### **Economics 1123. Applied Econometrics**

Catalog Number: 0813

*Michael P. Murray (Bates College)*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

An introduction to multiple regression techniques with focus on economic applications. Extensions to discrete response, panel data, and time series models will be discussed as well as issues such as omitted variables, missing data, sample selection, randomized and natural experiments, and instrumental variables. The aim of the course is to provide the 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., 2:30–4. EXAM GROUP: 16, 17*

Reviews the elements of probability that are central to the statistical methods developed. This leads to the conditional expectation function. The role of multiple regression in drawing inferences from a sample about this population concept is developed. Empirical articles are discussed to illustrate this methodology. A key question is the extent to which the conditional expectation function can be given a causal interpretation. Empirical attempts by economists to isolate exogenous variation are discussed. Related methodology includes the use of longitudinal data and instrumental variables to control for selection bias.

*Note:* This course is sufficient preparation for undergraduate economics special field in econometrics. 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 or preferably 110; Mathematics 20.

#### ***Cross-listed Courses***

#### **Statistics 100. Introduction to Quantitative Methods**

***Primarily for Graduates*****Economics 2110a. Quantitative Methods I**

Catalog Number: 7213

*Jack R. Porter**Half course (fall term). Tu., Th., 8:30–10. 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, Bayesian methods.

*Prerequisite:* Economics 2030 and Statistics 100 or equivalent.**Economics 2110b. Quantitative Methods II**

Catalog Number: 4838

*Fumio Hayashi (University of Tokyo)**Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

An econometrics course that covers the linear model in detail. Topics include ordinary least squares (OLS), generalized method of moments (GMM), maximum likelihood estimation, time-series analysis, and qualitative choice. Application of econometric methods using GAUSS software.

*Prerequisite:* Economics 2110a or Statistics 111 or equivalent.**[Economics 2130. Data in Economics: Provenance, Problems, Promise]**

Catalog Number: 0766

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*Half course (fall term). Th., 2:30–4. EXAM GROUP: 16, 17*

Will discuss the essential foundation of all economic analysis: the data. Surveys the principal sources of (primarily cross-sectional) data, their collection, and major problems associated with their use. Conceptual and theoretical issues in the definition of economic “variables,” their uncertain relationship to the available data, and some econometric methods to deal with problems, such as missing data, errors-in-variables, and quality change, will be presented. Some coverage given to major U.S. and world statistical agencies. Topics include productivity and technical change, national income accounting, labor and unemployment, wages, income distribution, capital and wealth, firms and financial data, health, and trade.

*Note:* Expected to be given in 2000–01.**Economics 2140a. Econometric Methods I**

Catalog Number: 6109

*Dale W. Jorgenson**Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Regression analysis and its economic applications, introduction to generalized method of moments and method of maximum likelihood, analysis of stationary and nonstationary time series. Includes regular computer exercises using standard econometric packages.

*Prerequisite:* Economics 2110a or equivalent.**Economics 2140b. Econometric Methods II**

Catalog Number: 7210



*Gary Chamberlain*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Statistical decision theory with applications to portfolio choice, panel data topics, selection bias, demand and supply, qualitative choice, and quantile regression.

*Prerequisite:* Economics 2110a, and either Economics 2110b or Economics 2140a.

### **[Economics 2140c. Econometric Methods III: Issues in Applied Econometrics]**

Catalog Number: 0125

*Zvi Griliches*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Structural models for cross-sectional and panel data: specification analysis and model choice issues. Simultaneity, errors-in-variables, limited dependent variables, and count data models. Sample selectivity, missing data, outliers, and other empirical topics.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 2140a or equivalent.

### **Economics 2140d. Time Series Analysis**

Catalog Number: 4414

*James H. Stock (Kennedy School)*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to current research in time series econometrics. Theoretical and empirical topics include ARIMA, vector autoregressions, state-space models, Kalman filtering, nonlinear filtering, frequency domain analysis, and integrated and cointegrated time series models, functional central limit theorems, and tests for structural breaks. Other advanced topics and applications from macroeconomics and finance are also considered.

### **Economics 2140e. Advanced Applied Econometrics**

Catalog Number: 7686

*Ariel Pakes and Jack R. Porter*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

An introduction to the theory and application of recently developed econometric techniques used in advanced applied work. Simulation techniques as well as semiparametric and nonparametric tools will be studied in a variety of empirical contexts.

### **Economics 2150. Topics in Applied Econometric Modeling**

Catalog Number: 7151

*David Sang-Yoon Lee*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Surveys various research designs that may be useful in empirical microeconomic research. Using examples from research in labor economics, covers issues in econometric modeling and identification, and causal interpretation in analyses of non-experimental data. Also provides a practical guide to implementing various econometric tools useful for applied research using cross-sectional and panel data.

*Prerequisite:* Economics 2110a, and either Economics 2110b or Economics 2140a.



**Economics 2162. Econometrics: Research Seminar**

Catalog Number: 2372

*Jack R. Porter, Gary Chamberlain, Zvi Griliches (fall term), Dale W. Jorgenson, and James H. Stock (Kennedy School)*

*Full course. Th., 4:30–6. EXAM GROUP: 18*

Current research topics in theory and applications of econometrics.

***Comparative Systems; Economic History; Development***

***For Undergraduates and Graduates***

**Economics 1310. The Japanese Economy**

Catalog Number: 0356

*Masahiro Shimotani*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Covers Japan's economic organization, structure, and performance from the mid-19th century to the present, focusing on the postwar period. Special emphasis is placed on the characteristics of Japanese intercorporate relations, such as zaibatsu, keiretsu and corporate groups. In addition, there is considerable discussion of the recent deregulation on holding companies, and the ongoing transformation of the Japanese economic system

*Prerequisite: Social Analysis 10.*

**Economics 1315. Economic Development in East Asia**

Catalog Number: 1920

*Dwight H. Perkins*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Covers the modern development and economic history of East and Southeast Asia. Topics covered include the role of government policy and the state, the transition from economies based on control planning to economies relying on market forces, the origins and nature of the Asian financial crisis, the role of natural resources or the lack thereof, differing approaches to income distribution and social welfare, and other issues connected with industrialization and agricultural development in the region.

*Prerequisite: Social Analysis 10.*

**Economics 1357. Historical Perspectives on American Economic Ascendancy**

Catalog Number: 7554 Enrollment: Limited to 70 students

*Claudia Goldin*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

The sources and origins of America's economic ascendancy are explored beginning with the founding of the nation. Addresses whether the U.S. is currently losing economic leadership or whether other nations are converging on it. Explores how the U.S. achieved economic supremacy, emphasizing natural resources, legal institutions, migration of labor and capital from the Old World, education, and invention. Addresses domestic problems encountered along the way, such as inequality, regional divisions, slavery, and economic vicissitudes such as the Great Depression. Evaluates the solutions tried, such as larger and more powerful government, including the growth of social insurance programs, and labor unions.



*Note:* Economics concentrators may not take this course pass/fail.

*Prerequisite:* Social Analysis 10 or permission of the instructor.

### **Economics 1366. Natural Resource Economics in Developing Countries**

Catalog Number: 4602

*Theodore Panayotou (Kennedy School) and Jeffrey R. Vincent (Kennedy School)*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Economic theory of natural resources and the environment in a development context and policy analysis of resource and environmental issues in developing countries: market failures, collective choice and intertemporal allocation; optimal use and conservation of renewable and nonrenewable resources; market structure, technology, and resource scarcity; externalities and environment; economic growth and resource depletion; resource taxation and regulation; development strategy and resources policy. Applications to mineral extraction, deforestation, soil erosion, overfishing, and environmental degradation in developing countries, and to global environmental problems such as ozone depletion and greenhouse effect.

*Note:* Offered jointly with the Kennedy School of Government as PED-267.

*Prerequisite:* Social Analysis 10 or permission of instructor.

### **Economics 1370. Globalization, Crisis and Economic Policy in Developing Countries**

Catalog Number: 5361

*Jong-Wha Lee (Kennedy School)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Covers selected topics in the recent development of developing countries. Emphasis is placed on the application of economic theories and empirical techniques to current policy issues in developing countries. The topics include openness and growth, globalization and international financial markets, foreign debt and financial crises, and stabilization and structural reform policies. Special attention is given to recent financial crises and economic reform of East Asian countries.

*Prerequisite:* Economics 1010b and introductory statistics or permission of instructor.

### **[Economics 1380 (formerly Economics 1382). The World Food Economy]**

Catalog Number: 2988

*Richard H. Goldman*

*Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Application of microeconomic and international trade analysis to issues in the world food economy. Part I focuses on interface between domestic and international dimensions of the food economy, stressing policies of large country agents, including WTO issues. Part II examines the analytical differences in conflicting projections about future food supply/demand balances and price levels, including demographic aspects, policy issues, and assessment of the Green Revolution and its prospects. Part III addresses food system issues in poor countries, such as role of hunger alleviation in economic growth, economic transformation, self-sufficiency vs. trade, pricing policies, macroeconomic structural adjustment, subsidy targeting, and food aid.

*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School of Government as PED-517.



**[Economics 1390. Growth, Poverty, and Economic Development]**

Catalog Number: 1919

*Half course (spring term). Tu., Th., 10:00–11:30. EXAM GROUP: 12, 13*

Application of the tools of economic analysis to better understanding the process of economic development. Attention to be paid to the translation of economic concepts into testable propositions, the conduct of empirical analysis, and the formulation of strategies for government action. Topics covered include models of economic growth, poverty, and inequality; population growth; credit and labor markets; health; education; and household behavior.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 1010a or 1011a and Statistics 100. Economics 1123, 1126 or Statistics 139 recommended.

**Economics 1399. Economic Development**

Catalog Number: 4051

*Joseph J. Stern*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 14*

Provides an overview of the economics of development and of the major economic issues confronting developing countries. Explores various theories of economic growth, structural change, the distribution of income, and poverty as they apply to developing countries. Integrates analysis of these topics with an examination of the role of agriculture, industry, international trade, capital flows, the environment, and human resource development.

*Prerequisite:* Economics 1010a and 1010b.

*Primarily for Graduates*

**[Economics 2300a (formerly Economics 2300). The Political Economy of Socialism and Transition, Part I: The Socialist System]**

Catalog Number: 4792

*Janos Kornai*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

The characteristic properties of classical socialism: political structure, ownership, coordination mechanisms, growth pattern, investment, prices, wages and employment. The inducements of reform. Experiments with market socialism.

*Note:* Expected to be given in 2001–02.

**[Economics 2300b. The Political Economy of Socialism and Transition, Part 2: Postsocialist Transition]**

Catalog Number: 3374

*Janos Kornai*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Main issues of postsocialist transition: political transformation, stabilization, transfer of property rights, changes in employment, income distribution and social security. Following lectures on the main issues the problems of a few selected countries are discussed. Part of the lectures are presented by invited Harvard and MIT faculty members.

*Note:* Expected to be given in 2000–01. Students of government, sociology, Russian and Chinese



studies, and advanced undergraduates are welcome.

*Prerequisite:* Economics 2300a or similar course on comparative economics.

**[Economics 2310. Economics and Politics of Policy Reform ]**

Catalog Number: 1881

*Aaron Tornell and Robert H. Bates*

*Half course (fall term). Tu., 7–9 p.m. EXAM GROUP: 18*

This course will analyze models of policy reform in economics and political science literature. It will also contrast the predictions of these models with recent real world episodes.

*Note:* Expected to be given in 2000–01.

**Economics 2320. Investment Appraisal and Risk Analysis**

Catalog Number: 1489

*Glenn P. Jenkins (Associate of the Harvard Institute for International Development) and G. P. Shukla (Kennedy School)*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

Deals with the theory and techniques of financial, economic, social and stakeholder analysis of public and private sector investment projects. In addition to covering the theoretical aspects, students are required to derive the national economic parameters needed to make an economic evaluation of projects for different sectors. Techniques of risk, including Monte Carlo simulation analysis, are taught and applied to a range of cases. Case studies are used to link theory to practical application.

*Note:* Offered jointly with the Kennedy School of Government as PED-201.

*Prerequisite:* Introductory Microeconomics.

**[Economics 2327. Capitalist Economic Development]**

Catalog Number: 8092

*Jeffrey D. Sachs*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Examines the dynamics of global capitalist economic development from the start of the 19th century to the present. The first third of the course will analyze the spread of capitalist institutions from Western Europe to the rest of the world. The middle third will analyze the nature of growth and structural change of capitalist economies. The final third will examine market reforms in developing countries, including problems of macroeconomic stabilization, trade liberalization, privatization, and social policies.

*Note:* Expected to be given in 2000–01. This course counts toward the graduate history requirement.

**Economics 2330. The Development of the American Economy**

Catalog Number: 0123

*Claudia Goldin*

*Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Covers selected topics in American economic history with an emphasis on the causes and consequences of economic growth in the 19th and 20th centuries. Also explores the historical roots of current economic issues, such as the productivity slowdown, technological change,



inequality, social insurance programs, regulation, race, immigration, unions, education, and macroeconomic fluctuations.

**[Economics 2332. Globalization and History]**

Catalog Number: 2251

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*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course will explore the evolution of economic globalization over the past two centuries: from the beginning of the First Industrial Revolution in late 18th century Britain; through the gold standard outward regimes of the late 19th century; through the autarchic retreat inwards during 1914–1950; and concluding with the return to the outward regimes of the late 20th century. It will focus primarily, but not entirely, on the current OECD countries exploring the sources and impact of trade, capital flows and migration, including the contribution of open economy forces to global convergence.

*Note:* Expected to be given in 2000–01. Primarily for graduate students. Counts towards the departmental Economic History requirement.

**Economics 2334. The Industrial Revolution**

Catalog Number: 0124

*Robert C. Allen (University of British Columbia)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Selected topics in European economic history with an emphasis on the causes and consequences of modern economic growth in Britain, France, Germany, and Russia in the 18th, 19th, and early 20th centuries. Topics include agrarian change and impact, industrial technical change and impact, physical capital accumulation and finance, divisions of labor, human capital accumulation, international trade and finance, British late 19th-century retardation, World War I, and the Great Depression.

*Note:* Expected to be omitted in 2000–01. Advanced undergraduates welcome with permission of instructor.

**\*Economics 2339. Workshop in Economic History**

Catalog Number: 8183

*Claudia Goldin and Jeffrey G. Williamson*

*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 2375. Economic Development in Latin America ]**

Catalog Number: 7988

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

This course analyzes Latin American economic development, its structural characteristics, recent reforms and current policy challenges. Its emphasis is in the application of macroeconomic analysis to real world problems. Thus, case studies are used from many countries in Latin America. An important aim of the course is that students develop a clear understanding of the different options facing policymakers, and of the consequences of these policies. Special



attention is placed in the economic reforms of the last decade and currently under way. Throughout, the course presumes the student's solid understanding of macroeconomics. Theory is used to the extent that it helps illuminate a particular issue under study.  
*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School of Government as PED-412. Open to qualifying undergraduates.

### **Economics 2390a. The Structural Transformation in Historical Perspective**

Catalog Number: 4216

*Dwight H. Perkins and Jeffrey G. Williamson*

*Half course (fall term). M., W., (F.), 2–3:30. EXAM GROUP: 7, 8*

Reviews historical patterns of the structural transformation in Europe, Latin America, East Asia, and Africa. Focus is on the role of policy in development, the balance between agriculture and industry, the role of international trade and finance, and the need for changing institutions as economies mature or as they make the transition from one economic system to another.

*Note:* Serves as the introduction at the graduate level to the field of Economic Development; also counts toward the departmental Economic History requirement.

### **Economics 2390b. Development Economics I: Microeconomic Issues**

Catalog Number: 2990

*Michael Kremer*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Agricultural issues: Peasant behavior, land tenancy, interlinked markets. Credit and insurance market problems and institutions. Health, nutrition, and productivity. Gender bias. Education.

### **Economics 2390c. Developmental Economics II: Macroeconomic Issues**

Catalog Number: 0388

*Michael Kremer*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Dynamic models of development emphasizing migration, modernization, and technological change; static and dynamic models of political economy; rent-seeking in and outside the government; trade liberalization, macroeconomic stabilization, and reform; the dynamics of income distribution and institutional change.

### **Economics 2390d (formerly 2390dhf). Economic Growth and Development: Seminar**

Catalog Number: 1926

*Robert J. Barro, Michael Kremer, Dwight H. Perkins, and Jeffrey G. Williamson*

*Full course. Fall: M., 4:30–6; Spring: Tu., 2:30–4. EXAM GROUP: Fall: 9; Spring: 16, 17*

### **Economics 2395. One Way or Many**

Catalog Number: 0990

*Jeffrey D. Sachs and Roberto Mangabeira Unger (Law School)*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

A recently influential and highly controversial set of ideas in political economy, sometimes labeled "neoliberalism" or "the Washington consensus," supports the thesis of institutional convergence as both a fact and a program. Opponents claim it accepts economic fatalism, remains complicit with extreme social inequality, and proves incompatible with a deepening of



democracy. The international financial crisis has lent new urgency to the controversy. This course explores variations on these themes, comparing the struggle over alternatives for the poorer countries with discussion about alternatives for the richer ones.

*Note:* Offered jointly with the Law School as 44160-11. This course will be held at the Law School.

### ***Monetary and Fiscal Theory and Policy; Public Sector Economics***

***For Undergraduates and Graduates***

#### **Economics 1410. Public Sector Economics**

Catalog Number: 6136

*David M. Cutler, Mihir A. Desai (Business School), Martin Feldstein, and Caroline M. Hoxby*  
*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

An economic analysis of government policy in market economies. Examines efficiency and equity arguments for government intervention, economic theories of government decision making, and empirical evidence on government programs. Special emphasis on social insurance and health care.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Social Analysis 10, Economics 1010a, or permission of instructor.

#### **Economics 1415. Reform of the Public Sector**

Catalog Number: 5233

*John F. McHale*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

This course provides an introduction to the economics of policy reform with an emphasis on international comparisons. The course begins by developing some basic tools for the normative evaluation of public policy and for understanding the political economy of reform. These tools will then be applied to the study of reforms that are on the political agenda in many countries. The applications include: social security privatization, health care costs and access, voucher financing in education, work-based welfare reform, the European unemployment problem, and international environmental policy.

*Prerequisite:* Social Analysis 10

#### **Economics 1420. American Economic Policy**

Catalog Number: 8110

*Martin Feldstein and John F. McHale*

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

Analyzes major issues in American economic policy including national saving, taxation, Social Security, 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.

*Prerequisite:* Economics 1010a or 1011a, or permission of instructor.

#### **Economics 1423. Capital Markets**

Catalog Number: 1917



*John Y. Campbell*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An introduction to the economic analysis of investment decisions and financial markets. Concepts include time discounting, market efficiency, risk, and arbitrage; they are applied to fixed-income securities, equities, and derivative securities.

*Prerequisite:* Math 20 and Economics 1010a.

### **Economics 1425. Economic Models of Politics**

Catalog Number: 7378

*Marianno Tommasi (Kennedy School)*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Investigates the functioning of the political system and how it generates public policy, using the tools of modern economic theory. Seeks to understand the structure of government and the behavior of agents in (and relation with) it. Special attention paid to Legislatures, the Bureaucracy, and intergovernmental relations. Applications include: voting, campaigning, political activism, strategy and compromise in the legislative process, economic reforms, judicial enforcement, federal public finances, monetary unions, processes of economic intergration, free-trade agreements, and the process of decentralizing the provision of public services in many developing countries (devolution). Uses a "U.S. centered" literature, but ponders its applicability to other (developing) countries.

*Prerequisite:* Economics 1010a or 1011a

### **Economics 1430. Macroeconomics and Politics**

Catalog Number: 5549

*Alberto F. Alesina*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Topics on the interplay between political processes and macroeconomics, including monetary policy and central-bank independence, political business cycle theory, macroeconomic determinants of voter behavior, the economic consequences of divided government, determinants of fiscal policy, hyperinflation and monetary stabilization, political economy of long-term growth, theory of economic and monetary union.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Social Analysis 10.

### **[Economics 1435. Economics of Health Care]**

Catalog Number: 0951

*David M. Cutler*

*Half course (fall term). Tu., Th., 10–11:30, with one one-hour section per week.. EXAM GROUP: 12, 13*

Examines the economics of health care and health reform. Topics include economic determinants of health; the market for medical care; insurance markets; the interaction between health and other markets; and the role of the government in health care. Special emphasis on current issues in health reform.

*Note:* Expected to be given in 2000–01. Will no longer be offered through the Economics Department. Will be offered as Quantitative Reasoning 24 in the fall of 1999. For economics



concentrators: this course will count towards the concentration requirement as an elective economics course.

### **Economics 1445. Corporate Finance**

Catalog Number: 5889

*Randall Morck (University of Alberta)*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Introduction to corporate finance, including capital budgeting, capital structure of firms, dividend policy, managerial incentives, takeovers, and privatization.

*Prerequisite:* Economics 1010a or 1011a.

### **[Economics 1450. International Capital Markets and Corporate Finance]**

Catalog Number: 4914

*Rafael La Porta*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The course will explore how companies in different countries use internal finance, banks, and external capital markets. The course deals with four main issues in international finance: corporate governance, foreign exchange, international valuation, financial risk management. The first module of the course will emphasize the role of legal institutions in the development of local capital markets and will analyze how firms adapt to insufficiently developed local capital markets through conglomeration, pyramiding, government ownership and family businesses. This module will also cover the worldwide trend towards privatization. The second module of the course focuses on exchange rate and exchange rate determination. This material explores the connection between exchange rates, interest rates, national price levels, and inflation, and develops techniques for valuing foreign cash flows. In the third module we apply these techniques to problems of cross-border valuation. The final module of the course explores the measurement and management of exchange-rate risk exposures. Students will learn when and how a company should hedge its foreign exchange exposure.

*Note:* Expected to be given in 2000–01.

### **[Economics 1470. Privatization]**

Catalog Number: 3865

*Aaron Tornell*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

The course combines an examination of conceptual issues surrounding privatization with the use of case studies to analyze the actual process of privatization. Sometimes big private firms have strong stakeholders that lead these firms to behave inefficiently. Given this observation, we first ask when should state-owned enterprises be privatized, and when should they be transformed into private monopolies and regulated. Case studies will be used to analyze the concrete steps needed to privatize SOEs: restructuring, labor contracts, valuation, placement in the stock market, and auctions. The objective of the course is to familiarize students with the theoretical concepts of IO, game theory, and finance, and to provide them with accounting and financial “tools” commonly used in investment banking.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 1010a, or permission of the instructor.

**[Economics 1475. Economic Growth]**

Catalog Number: 0741

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*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A theoretical and empirical examination of economic growth and the sources of income differences between countries. The focus is on both the historical experience of growth in countries that are currently rich and the current process of catch-up (or lack thereof) among poor countries in the world today. Among the issues examined are the role of population growth and demographic transition in the process of economic growth; accumulation of physical and human capital; technological change and its dissemination; the relation between economic growth, natural resource use, and environmental degradation; the effects on growth of income distribution, political factors, and culture; and the relationship between growth of income and happiness.

*Note:* Expected to be given in 2000–01.*Prerequisite:* Economics 1010b or 1011b.**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. The central question is whether rising living standards promote openness of opportunity, social mobility, tolerance of diversity, commitment to democracy, and other related characteristics of free societies. Approaches include economic, historical, and literary analyses.

*Prerequisite:* Economics 1010a (or 1011a) and 1010b (or 1011b).***Primarily for Graduates*****Economics 2410a. Macroeconomics of the Labor Market**

Catalog Number: 3488

*Christopher L. Foote**Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

This course studies business cycle dynamics with an emphasis on the labor market. We start with an analysis of the canonical real business cycle model and discuss problems of identifying fundamental shocks, the amplification of these shocks, and generating realistic levels of persistence in output movements. We then discuss approaches to each of these three areas, paying particular attention to recent work using disaggregated employment data. The goal of the course is to allow students to become fully acquainted with modern business cycle research and to appreciate research opportunities involving disaggregated labor market data.

*Prerequisite:* Economics 2010c and Economics 2010d.**Economics 2410c. Advanced Topics in Macroeconomics**

Catalog Number: 4328

*N. Gregory Mankiw**Half course (spring term). M., W., 11:30–1. EXAM GROUP: 4, 5*



This course examines selected topics from recent research in macroeconomics, with an emphasis on empirical work. Topics include business cycle models, monetary and fiscal policy, and theories of consumer behavior.

### **Economics 2410e. Economic Growth**

Catalog Number: 0681

*Francesco Caselli (University of Chicago)*

*Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Theoretical and empirical topics in economic growth.

### **[Economics 2410h. Dynamic Programming and Consumption]**

Catalog Number: 1851

*David I. Laibson*

*Half course (spring term). Tu., Th., 3–4:30. EXAM GROUP: 17, 18*

This course is divided into two independent halves. The first half of course is an introduction to dynamic programming, including numerical methods. Second half of the course surveys recent empirical and theoretical research in consumption. Topics in second half may include aggregation, insurance, liquidity constraints, consumption of durables, incomplete markets, precautionary savings, Kreps-Porteus preferences, habit formation, savings policy and savings incentives, and behavioral theories of consumption.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 2010c and 2010d.

### **Economics 2420. Monetary and Fiscal Policy: Seminar**

Catalog Number: 5946

*Alberto F. Alesina, Robert J. Barro, Christopher L. Foote, Benjamin M. Friedman, and N.*

*Gregory Mankiw*

*Full course. M., 2–4. EXAM GROUP: 7, 8*

### **[Economics 2422. Enterprise Design and Valuation]**

Catalog Number: 1759

*Carliss Y. Baldwin (Business School)*

*Half course (fall term). W., F., 11–12:30. EXAM GROUP: 4, 5*

This course deals with the effects of an artifact's design on the organizations, firms and subindustries involved in making the artifact. Illustrations will be drawn from the computer industry, however, the methodologies are general and can be extended to other settings. Topics covered (in approximate order) are: the microstructure of designs; modularity; the economic system surrounding artifacts and their designs; modular operators; task structures and contract structures; design options and design evolution; the option value of splitting and substitution; the option value of augmenting and exclusion; the option value of inverting and porting; modular clusters; the role of intellectual property rights and financial conduits in the formation of modular clusters; and the economics of hidden module competition. Readings will be drawn from works on engineering design, complex adaptive systems, organizational economics and finance.

*Note:* Expected to be given in 2000–01. Offered jointly with the Business School as 4253. The course is appropriate for Ph.D. students in economics and business economics in their second year; it is open to DBA and MBA students by permission of the instructor.



### Economics 2423. Asset Pricing

Catalog Number: 2847

*John Y. Campbell*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An introduction to financial economics emphasizing discrete-time models and empirical applications. Topics include econometric analysis of asset returns, static and intertemporal asset pricing models, present value relations, the term structure of interest rates, and advances in behavioral finance.

*Prerequisite:* Math 20 and Economics 1010a

### **[Economics 2424. Finance Theory in Continuous Time]**

Catalog Number: 4860

*Sanjiv Das (Business School)*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Synthesis of finance theory from the perspective of continuous-time analysis covering individual financial behavior, capital markets, financial intermediation, and general equilibrium in an uncertain environment. Topics: introductory stochastic calculus and dynamic programming, lifetime consumption choice and portfolio selection theory, option and other derivative-security pricing, pricing of corporate liabilities, risk management and production theory for financial intermediaries, interest rate and fixed-income pricing, intertemporal and consumption-based capital asset pricing models.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 2010a or 2020a, elementary probability, multivariate calculus.

### Economics 2425. Corporate Finance

Catalog Number: 1427

*Andrei Shleifer*

*Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Theory and empirical evidence of capital structure, dividends, investment policy, managerial incentives, and takeovers. Topics to be emphasized include market efficiency, agency problems, and ownership.

*Note:* Offered jointly with the Business School as 4228 and with the Kennedy School of Government as API-142.

*Prerequisite:* Economics 2060.

### Economics 2427. Topics in Empirical Corporate Finance

Catalog Number: 9055

*Paul Gompers (Business School) and Joshua Lerner (Business School)*

*Half course (spring term). Th., 2:30–5:30. EXAM GROUP: 16, 17, 18*

This course will examine empirical research in corporate finance. The class will be seminar format with a discussion of various research articles and working papers. Students will be required to write referee reports, three papers throughout the term, and complete a 25-page research paper. The course will cover empirical research methodology, financial institutions, financial market regulation, intellectual property and finance, product market/capital market interaction, and corporate governance. The course will be structured to minimize overlap with



Economics 2425.

*Note:* Offered jointly with the Business School as 4814.

### **Economics 2428. Behavioral Finance**

Catalog Number: 8633

*Andrei Shleifer*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

The course will deal with theoretical and empirical approaches to the study of financial markets using psychological or behavioral ideas. Topics to be discussed include: limited arbitrage, predictability of security returns, closed end funds, the equity premium, trading volume and others.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Economics 2423. May be taken concurrently.

### **Economics 2430. Dynamic Consumption and Portfolio Choice under Uncertainty**

Catalog Number: 2235

*George Chacko (Business School) Randy Cohen (Business School), and Luis Viceira (Business School)*

*Half course (spring term). Th., 3–6. EXAM GROUP: 17, 18*

At each moment in time, individuals must choose between three potential uses of their (financial and nonfinancial) wealth: consumption, investing in riskless securities, or investing in various forms of risky assets, some of which could be nontraded. This course covers the basics of these consumption/savings and asset allocation problems. The course begins with one or two-period versions of these problems and quickly moves to the general multi-period problem in finite and infinite horizon settings. Advanced topics to be covered in a partial equilibrium setting include optimal consumption/savings with time-varying investment opportunity sets, investment decisions when the opportunity set includes "alternative" assets such as human capital and residential real estate, and optimal investment with incomplete information. Topics covered in a general equilibrium setting include the term structure of interest rates and the determination of risk premia. The course will deal with problems in both discrete and continuous time and will teach stochastic dynamic programming in both settings. In addition to theoretical concepts, the course looks at empirical tests of the theories of consumption, savings, and investment, including examination of aggregate and micro-level data in the U.S. and internationally.

*Note:* Offered jointly with the Business School as 4244.

*Prerequisite:* Economics 2010a,b,c,d, and Economics 2140a or equivalent.

### **Economics 2450a. Public Economics and Fiscal Policy I**

Catalog Number: 1339

*David M. Cutler and Emmanuel Saez*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Surveys theoretical and empirical analyses of taxation and government expenditures. Special topics include taxes and corporate finance and international aspects of taxation.

### **Economics 2450b. Public Economics and Fiscal Policy II**

Catalog Number: 6478

*Martin Feldstein and Emmanuel Saez*



*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.

**[Economics 2470. Reform of the Welfare State]**

Catalog Number: 8752

*Janos Kornai and John F. McHale*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Reform of the welfare state is on the agenda in many countries. This course will use a comparative and interdisciplinary approach to study reform options, with an emphasis on policy conclusions. Topics include: causes and effects of welfare state growth; reform of state-provided pensions, health care, education, unemployment insurance and assistance, poverty relief, etc.; the political economy and ethical implications of reform; and the special problems of developing and post-communist economies.

*Note:* Expected to be given in 2000–01. Presentations will be given by guest speakers and students. Students of political science, public administration, sociology, public health, education, law, philosophy, and advanced undergraduates are encouraged to attend. Empirical and theoretical papers dealing with reform in a single country or comparing reforms in many countries are welcome.

**Economics 2480. Public Economics and Fiscal Policy: Research Seminar**

Catalog Number: 6834

*David M. Cutler, Martin Feldstein, Caroline M. Hoxby, John F. McHale, and Emmanuel Saez*

*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.

***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 income determination, capital markets, and macroeconomic policy in the open economy. Applications to such issues as exchange rate determination, the history of international monetary regimes, international policy coordination, the debt crisis, and reform in Latin America and Eastern Europe.

*Prerequisite:* Economics 1010b or 1011b.

**[Economics 1535. International Trade and Investment]**

Catalog Number: 2557

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*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Analysis of the causes and consequences of international trade and investment. Attention focused



on the interplay of economic theory and empirical descriptions of foreign trade and direct investment patterns.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Social Analysis 10, Economics 1010a or 1011a.

### **[Economics 1542. International Trade Policy]**

Catalog Number: 2613

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*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Provides an introduction to the theory, history and empirical evaluation of international trade policy. Begins by reviewing the theory of trade and trade policy in both competitive and non-competitive environments. The determinants and impact of 19th and 20th century trade policies are discussed. The course concludes with an evaluation of major current trade policy debates.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 1010a or 1011a, or permission of instructor.

### **Economics 1545. International Financial and Macroeconomic Policy**

Catalog Number: 5166

*Kenneth Rogoff*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Advanced theoretical and empirical analysis of contemporary international macroeconomic policy issues, including speculative attacks on exchange rates and sovereign debt. First part of the course develops theoretical and empirical foundations, whereas last part of the course looks at a number of policy issues related to redesigning the international financial architecture.

*Prerequisite:* Economics 1010b or 1011b

***Primarily for Graduates***

### **Economics 2530a. International Trade**

Catalog Number: 4537

*Elhanan Helpman*

*Half course (fall term). M., W., 8:30–10. EXAM GROUP: 1, 2*

Provides a broad overview of theory and evidence concerning international trade, direct foreign investment and trade policy. In addition to traditional approaches to comparative advantage, the course discusses in detail scale economies, imperfect competition, and product differentiation. These approaches are then expanded to deal with trade dynamics and economic growth. In this part technological factors play a key role, as do the economics of research and development. Trade policies are discussed in all these environments, focusing on resource allocation, growth, and welfare. Finally, the formation of trade policies is discussed as part of a political process in which special interest groups play a major role.

*Note:* Strongly recommended as preparation for Economics 2530b.

### **Economics 2530b. International Finance I**

Catalog Number: 7144

*Kenneth Rogoff*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*



Financial aspects of growth and income determination in open economies. Specific topics include financial risk in the international setting; money and exchange rate regimes; income determination and macroeconomic policy; history of international monetary arrangements, and current issues in international monetary reform.

*Prerequisite:* Economics 2530a provides extremely useful background for topics in this course.

**[Economics 2530d. Macroeconomic Stabilization and Reform in Developing and Socialist Economies]**

Catalog Number: 4117 Enrollment: Limited to 25.

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*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Macroeconomic policy issues faced by developing countries and formerly socialist countries engaged in major economic reforms. Topics include stabilization programs to end high inflation; introduction of exchange rate convertibility; trade liberalization; strategies of privatization; financial-market restructuring; the role of international financial institutions.

*Note:* Expected to be given in 2000–01. Preference given to students seeking to prepare dissertations in this area.

**[Economics 2535. Advanced Topics in International Finance ]**

Catalog Number: 6410

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*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

This course will cover theoretical and empirical topics concerning the determinants of world trade patterns.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 2530a or permission of instructor.

**[Economics 2536. Topics in International Finance](#)**

Catalog Number: 1718

*Aaron Tornell*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Microfoundations of various topics in international finance. Includes international business cycles. Fixed and flexible exchange rate regimes: exchange rate determination, speculative attacks and target zones. PPP, price rigidities and exchange-rate pass-through. Capital controls and dual exchange rates. Stabilizations, capital flight and credibility. The Feldstein-Horioka paradox. Monetary integration and policy coordination.

*Note:* Expected to be omitted in 2000–01.

**[Economics 2537. International Economic Policy Analysis]**

Catalog Number: 1699

*Dani Rodrik (Kennedy School)*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

An advanced seminar on international economic analysis for students who are already familiar with the theories of international trade and open-economy macroeconomics. Objective is to develop expertise with economic models used for the analysis of policy issues. The course focuses on a revolving set of issues, such as: U.S. trade and industrial policy; the debate on trade,



jobs, and wages; GATT, WTO, and beyond; the exchange-rate system and currency crises; European integration; international integration and economic growth; and the design of multilateral regimes and institutions.

*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School as ITF-345.

*Prerequisite:* Multivariate calculus and constrained optimization, and exposure to international economics at the graduate level.

### **Economics 2540. International Economics: Seminar**

Catalog Number: 4008

*Richard N. Cooper (spring term), Elhanan Helpman, Dani Rodrik (Kennedy School), Kenneth Rogoff, Aaron Tornell (fall term), and Shang-Jin Wei (Kennedy School)*

*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 1600. Industrial Organization**

Catalog Number: 2584

*Richard E. Caves*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

The nature of modern firms and markets. The main features of industrial structure and their relationship to market performance. Impact on the behavior of business enterprise in pricing, advertising, research and development, and profits.

*Prerequisite:* Social Analysis 10.

### **[Economics 1601. Regulation and Antitrust]**

Catalog Number: 2851

*Richard E. Caves*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines the economic rationales for government intervention into business decisions. Considers both traditional regulation and recent progress towards deregulation of public utilities, such as telecommunications firms or electric utilities. Also considers the enforcement of antitrust policies. The course will provide an overview of the institutions through which government policies are implemented and will consider evidence on the impact of regulatory and antitrust policy.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Social Analysis 10.

### **Economics 1630. Economics and the Arts**

Catalog Number: 4884

*Richard E. Caves*

*Half course (spring term). M., W., F., at 9. EXAM GROUP: 2*

This course explores the economic issues that arise in the organization of economic activity in



the visual and performing arts and industries with substantial “creative” components. Issues of domestic and international public policy are addressed.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Social Analysis 10

### **[Economics 1660. Law and Economics]**

Catalog Number: 2236

*Steven Shavell (Law School)*

*Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8*

The emergence of the economic approach to the analysis of law — the hallmark of which is its focus on determining the consequences of legal rules — is today generally acknowledged to be one of the most significant developments in 20th century legal scholarship. The course will systematically consider this new field of law and economics. Subjects to be covered are the four basic areas of legal systems: property law, contract law, tort law (civil liability), criminal law and law enforcement. Also to be discussed are aspects of the legal process (notably, suit, settlement, legal expenditures).

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Social Analysis 10.

### **Economics 1661. Environmental and Resource Economics and Policy**

Catalog Number: 2115

*Robert N. Stavins (Kennedy School)*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Provides a survey, from the perspective of economics, of policy issues associated with natural resource use and environmental protection. Lectures on conceptual and methodological topics are combined with case discussions of actual resource and environmental controversies. Topics: principles of environmental and resource economics; nonrenewable resources (minerals and energy), renewable resources (water, forests, land, fisheries, and wildlife); air pollution (stationary and mobile sources, acid rain, and global climate change); water pollution (point and nonpoint sources); waste management; sustainable development and political aspects of environmental policy.

*Note:* Offered jointly with the Kennedy School of Government as ENR-201.

*Prerequisite:* Social Analysis 10 or permission of instructor.

### **Economics 1690 (formerly Economics 1490). Economic Theory of the Environment and Natural Resources**

Catalog Number: 2939

*Martin L. Weitzman*

*Half course (fall term). M., W., 1–2:30, plus section F., 1–2:30. EXAM GROUP: 6, 7*

Provides a survey of the conceptual, analytical, and theoretical foundations of environmental and natural resource economics. Topics include the theory of public goods and externalities, common property, and alternative policies for controlling pollution. Dynamic analysis of the extraction and exploitation of renewable (e.g., fisheries) and nonrenewable (e.g., minerals) natural resources. Some treatment of theoretical aspects of cost-benefit analysis, environmental accounting, and sustainable development. An exploration of the basic conceptual issues involved in modeling biodiversity preservation.



*Note:* This is a mathematically rigorous course that provides the basic analytic framework for students seriously interested in environmental economics.

*Prerequisite:* Economics 1010a, Mathematics 20, or equivalent.

*Primarily for Graduates*

### [Economics 2610. Industrial Organization I](#)

Catalog Number: 3766

*Ariel Pakes*

*Half course (fall term). M., Tu., 4–5:30. EXAM GROUP: 9, 18*

Applied and empirical work in industrial organization. Static analysis (theory and estimation): demand systems, cost functions, and game theoretic concepts of equilibrium. Mergers and cartels in a static setting. Dynamic analysis (theory, computation, and estimation): 1. Single agent problems in I.O. 2. Multiple agent problems (Markov Perfect Equilibrium for traditional investment games and extensions to learning by doing, dynamic demand -- advertising and experience goods, durable goods -- collusion, etc.)

### [Economics 2611. Industrial Organization II](#)

Catalog Number: 2302

*Catherine D. Wolfram*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Application of industrial organization to problems of public policy. Analysis of antitrust policy; public utility regulation; regulation and deregulation of electricity, telecommunications and other sectors; health, safety and environmental regulation.

*Note:* Students are urged to take Economics 2610 before Economics 2611.

### **[Economics 2630. Technology, Competition, and Growth]**

Catalog Number: 2947

*Zvi Griliches*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Technological change: definitions, sources, models, and measures. Diffusion and its impact on measured productivity. Science, R&D, patents, and other measures of inventive activity. Market structure and innovation. Models of technological competition, domestic and international. Implications for growth and distribution.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Economics 2140a, 2140b, and 2110b, or equivalent.

### [Economics 2640hf. Topics in Industrial Organization: Seminar](#)

Catalog Number: 5981

*Richard E. Caves, Ariel Pakes, and Catherine D. Wolfram*

*Half course (throughout the year). Fall: F., 2:30–4; Spring: M., 2:30–4. EXAM GROUP: 7, 8*

### [\\*Economics 2690hf \(formerly Economics 2490hf\). 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 of Government as ENR-551y.

*Prerequisite:* Graduate-level course in microeconomic theory.

### ***Labor, Human Resources, and Income Distribution; Urban Economics***

***For Undergraduates and Graduates***

#### **Economics 1800. The Economics of Cities**

Catalog Number: 2159

*Edward L. Glaeser*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

This course addresses the central questions of why cities exist, what roles will cities continue to play in the economy, and what determines the rise and fall of cities. Special attention is paid to cities and information, and social problems in cities.

*Prerequisite:* Social Analysis 10 and Statistics 100.

#### **Economics 1812. Operation of the 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:* Social Analysis 10 and Economics 1010a.

#### **[Economics 1813. The Indebted Society]**

Catalog Number: 6957

*James L. Medoff*

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

This course first charts the sharp growth of corporate, personal, and government indebtedness in the U.S. The class will then discuss the implications of these spurts in debt. Finally, we will ask how do we best function in this new world?

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Social Analysis 10, Economics 1010a.

#### **Economics 1815 (formerly Economics 1015). Social Problems of the American Economy**

Catalog Number: 3130

*Lawrence F. Katz*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines selected social and economic problems of the U.S. 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:* A research paper is required.

### **Economics 1818. Economics of Discontinuous Change**

Catalog Number: 3029

*Richard B. Freeman*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

This course explores discontinuous changes in the economic position of groups and countries and presents mathematical and computer simulation models designed to illuminate these changes. Among the examples are: growth/decline of trade unions; segregation of groups; changes in corporate work culture; growth of social pathologies in neighborhoods; Malthusian concerns about the environment. Among the models are: nonlinear simulations; neural networks; finite automata; evolutionary stable strategies; causal conjunctures; agent-based simulations; genetic algorithms. Primary emphasis is on using models and computer programs to analyze the substantive examples rather than on mathematics.

*Note:* The course requires a research paper. Students should have some mathematical background, but there is no prerequisite. The course is primarily designed for undergraduates.

### **Economics 1822. Economics of Education**

Catalog Number: 1004

*Caroline M. Hoxby*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

This course explores questions such as why people attain different levels of education, why schools are or are not efficient, how education should be financed to achieve both equity and efficiency goals, what explains rising tuition in higher education, and whether education is an engine of macroeconomic growth. The course rigorously examines education topics using economic theory from labor economics (human capital investment, the market for teachers), public economics (financing K-12 education, public colleges), industrial organization (the structure of the education industry, agency problems in public education), and macroeconomics (growth theory). The emphasis on application of theory, the discussion of recent research, and the option of a research paper make this a useful course for students thinking about honors theses in economics.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Economics 1010a or 1011a or permission of the instructor.

### **[Economics 1870. Work, Leisure, and Consumption]**

Catalog Number: 2116

*Juliet Schor*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Focuses on the role of work, leisure, and consumption in the United States. Topics include the historical evolution of work and working hours; the modern corporation, the sexual division of labor and “women’s work”; trends in working hours; why people consume; addiction and status models of consumption; the ecological critique of consumption; simple living; and possibilities for transforming structures of work, leisure, and consumption.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Social Analysis 10 or permission of instructor.

***Cross-listed Courses*****Women's Studies 102 (formerly Women's Studies 10c). Gender and Inequality*****Primarily for Graduates*****Economics 2800a. Cities, Externalities and Economic Growth**

Catalog Number: 3319

*Edward L. Glaeser**Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4*

Focus is on externalities and particularly informational externalities in cities. Urban growth, crime, riots, ghettos and urban labor markets will be particularly important to the course.

*Prerequisite:* Ph.D.-level courses in economic theory and econometrics or permission of instructor.**Economics 2800chf. Urban Economics, Transportation, and Regional Economic Development: Seminar**

Catalog Number: 5383

*John R. Meyer (Kennedy School) and Edward L. Glaeser**Half course (throughout the year). Fall: Tu., 12–2; Spring: Tu., 1–2:30. EXAM GROUP: Fall: 14, 15; Spring: 15, 16*

Working seminar based on presentations of ongoing research for graduate students specializing in urban economics, regional economics, and transportation.

*Note:* Students enrolled for credit must prepare and present a research paper.*Prerequisite:* Economics 2800a,b or permission of instructor.**Economics 2810a. Labor Market Analysis**

Catalog Number: 4862

*Caroline M. Hoxby and Lawrence F. Katz**Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4*

An introduction to theoretical and empirical research related to labor markets, wages, education, employment and unemployment. Wage determination topics include: equalizing differences, self-selection, human capital, education, training, job mobility, and recent wage theories including matching, agency, insurance, and tournament models. Labor supply topics include: allocation of time, taxes, unemployment insurance, and life-cycle models. Labor demand topics include: the effect of minimum wage on employment, dynamic adjustment models, and the impacts of technological change and international trade on the wage structure. Provides an introduction to current empirical methods in applied microeconomics.

**Economics 2810b. Labor Economics and Labor Market Institutions**

Catalog Number: 3206

*Lawrence F. Katz and Richard B. Freeman**Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Focuses on the operation of the labor market and impact of labor market institutions on labor market outcomes. Topics include labor econometrics; theories of wage determination; empirical analysis of wage differentials and changes in the wage structure; models of trade union behavior



and research on the impact of unions; institutional change in the labor market; unemployment; labor market segmentation and discrimination; and the labor market in an open economy.

### **Economics 2812. Labor Economics: Seminar**

Catalog Number: 0230

*Richard B. Freeman, Caroline M. Hoxby, Lawrence F. Katz, and David Sang-Yoon Lee*  
*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) and Richard B. Freeman*  
*Half course (spring term). M., 3:30–5:30. EXAM GROUP: 8, 9*

Research and discussion with trade union leaders and management concerning labor issues.

### **Economics 2910. Topics in Health Economics: Seminar**

Catalog Number: 7617

*David M. Cutler, William C. Hsiao (Public Health), and Joseph P. Newhouse*  
*Half course (spring term). W., 4:30–6. EXAM GROUP: 9*

Focuses on theory, econometric models, and public policy of health care. Frontier work in health economics presented and discussed by instructors and outside speakers. Topics include public and private investments in health, hospital and physician behavioral models, markets and competition in health care, and regulation and financing health services.

*Note:* May be taken for credit only by dissertation students presenting research.

## ***Graduate Courses of Reading and Research***

### ***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 Ph.D. degree in Economics.

Ordinarily, this course is taken during the fall term of the second year of graduate study.

#### **\*Economics 3005. Reading and Research**

Catalog Number: 3493

*Members of the Department*

Any professor, associate professor, assistant professor, or lecturer in residence is available for this course. Individual work or work in small groups, in preparation for the general examination for the Ph.D. degree, or by arrangement, in special topics not included in the announced course offering.

#### **\*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. Seminar in Economic Theory**

Catalog Number: 0109

*Laurent E. Calvet 1495, Drew Fudenberg 3460 (on leave fall term), Jerry R. Green 1539, and Eric S. Maskin 1070 (on leave 1999-00)*

*Half course (fall term; repeated spring term). W., 12–1:30.*

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,b or 2020 a,b.

**Economics 3086r (formerly Economics 2086r). Advanced Theory Workshop**

Catalog Number: 6378

*Jerry R. Green 1539, Laurent E. Calvet 1495, Oliver S. Hart 3462, Eric S. Maskin 1070 (on leave 1999-00), and Alvin E. Roth 564*

*Half course (fall term; repeated spring term). Th., 4–5:30.*

**\*Economics 3163hf. Research in Econometrics**

Catalog Number: 4392

*Gary Chamberlain 1745, Zvi Griliches 2078 (on leave fall term), Dale W. Jorgenson 2000 (on leave spring term), Jack R. Porter 2337, and James H. Stock (Kennedy School) 1783*

*Half course (throughout the year). Th., 11:30–1.*

Participants discuss recent research in econometrics and present their own work in progress. Open to doctoral students in Economics who have passed their general oral examinations.

**[\*Economics 3336hf. Topics in Economic History]**

Catalog Number: 0639

*Claudia Goldin 2667 and Jeffrey G. Williamson 7680*

*Half course (throughout the year). M., 12–2.*

Primarily for faculty, visitors, and graduate students writing dissertations in economic history. Discussions of work in progress.

*Note:* Expected to be given in 2000–01.

**\*Economics 3390hf. Research in Economic Development**

Catalog Number: 2532

*Michael Kremer 2112, Dwight H. Perkins 2300, Ashok S. Rai (Kennedy School) 3127, and Jeffrey G. Williamson 7680*

*Half course (throughout the year). W., 12–1:30.*

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. Workshop on Macroeconomic Research**

Catalog Number: 2126

*Alberto F. Alesina 2074, Robert J. Barro 1612 (on leave spring term), Francesco Caselli (University of Chicago) 1489, Christopher L. Foote 2333, David I. Laibson 1241 (on leave 1999-*



00), and N. Gregory Mankiw 1118

*Half course (throughout the year). Tu., at 12.*

Participants discuss recent research in macroeconomics and present their own work in progress. Open to doctoral students in economics who have passed their general oral examinations.

**\*Economics 3423hf. Research in Financial Economics**

Catalog Number: 4107

*John Y. Campbell 1230 and Rafael La Porta 1466 (on leave 1999-00)*

*Half course (throughout the year). TBA.*

Participants discuss recent research in financial economics and present their own work in progress. Open to doctoral students in economics who have passed their general oral examinations.

**\*Economics 3425hf. Topics in Organizations**

Catalog Number: 6164

*Oliver S. Hart 3462 and Andrei Shleifer 2772*

*Half course (throughout the year). Tu., 12–1.*

**\*Economics 3450chf. Research in Public Economics and Fiscal Policy**

Catalog Number: 3436

*David M. Cutler 2954, Edward L. Glaeser 3219, Caroline M. Hoxby 1235, Lawrence F. Katz 1480, John F. McHale 1674, and Emmanuel Saez 1654*

*Half course (throughout the year). Th., 1:30–3.*

Participants discuss recent research in public economics and fiscal policy and present their own work in progress.

*Note:* Open to doctoral students in Economics who have passed their oral examinations.

**\*Economics 3460chf. Research in Health Economics**

Catalog Number: 5309

*David M. Cutler 2954 and Joseph P. Newhouse 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.

*Note:* Open to doctoral students only. Enrollment by permission of instructors.

**\*Economics 3530hf. Research in International Economics**

Catalog Number: 5777

*Elhanan Helpman 2334, Kenneth Rogoff 1746, and Aaron Tornell 3547 (fall term only)*

*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 3531hf. Workshop on International Finance]**

Catalog Number: 1377

*Elhanan Helpman 2334 and Aaron Tornell 3547 (fall term only)*

*Half course (throughout the year). W., at 12:30.*



Participants discuss recent research in international finance and present their own work in progress. Open to doctoral students in economics who have passed their general oral examinations.

*Note:* Expected to be given in 2000–01.

**\*Economics 3650hf. Research in Industrial Organization**

Catalog Number: 3318

*Richard E. Caves 1414, Ariel Pakes 1774, and Catherine D. Wolfram 2339*

*Half course (throughout the year). W., 4–5:30.*

Open to doctoral students in economics who have passed their general examinations and are in the early stages of their dissertations. Participants present their own research in progress in an informal setting.

**Economics 3660hf. Law and Economics: Research Seminar**

Catalog Number: 4325

*Oliver S. Hart 3462, Lucian Arye Bebchuk (Law School) 2042, and Louis E. Kaplow (Law School) 3223*

*Half course (throughout the year). W., 4–6.*

The presentation of work in progress in the field of law and economics. Presentations to be made by members of the various Harvard faculties, outside speakers, and graduate students. Open to all faculty and students with an interest in law and economics.

**\*Economics 3810chf. Research in Labor Economics**

Catalog Number: 4066

*Claudia Goldin 2667, Caroline M. Hoxby 1235, Lawrence F. Katz 1480, and David Sang-Yoon Lee 2859*

*Half course (throughout the year). Th., 1:30–3.*

Participants discuss recent research in labor economics and present their own work in progress. Open to doctoral students in Economics who have passed their general 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

Donald G. M. Anderson, Gordon McKay Professor of Applied Mathematics



Michael J. Aziz, Gordon McKay Professor of Materials Science  
 Ana P. Barros, Associate Professor of Environmental Engineering on the Gordon McKay Endowment  
 Michael S. Brandstein, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment (*Co-Director of Undergraduate Studies*)  
 Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science  
 James N. Butler, Gordon McKay Professor of Applied Chemistry (*on leave fall term*)  
 Brian F. Farrell, Robert P. Burden Professor of Meteorology  
 Joseph J. Harrington, Gordon McKay Professor of Environmental Engineering (*FAS*), Professor of Environmental Health Engineering (*Public Health*)  
 Lene V. Hau, Gordon McKay Professor of Applied Physics and Professor of Physics  
 Yu-Chi Ho, T. Jefferson Coolidge Professor of Applied Mathematics and Gordon McKay Professor of Engineering  
 Robert D. Howe, Gordon McKay Professor of Engineering  
 John W. Hutchinson, Gordon McKay Professor of Applied Mechanics (*Co-Director of Undergraduate Studies, Associate Dean of Academic Programs in the Division of Engineering and Applied Sciences*)  
 Daniel J. Jacob, Gordon McKay Professor of Atmospheric Chemistry and Environmental Engineering  
 R. Victor Jones, Robert L. Wallace Professor of Applied Physics  
 Aleksandar Kavcic, Assistant Professor of Electrical Engineering on the Gordon McKay Endowment  
 Richard E. Kronauer, Gordon McKay Professor of Mechanical Engineering  
 H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering  
 Ralph Mitchell, Gordon McKay Professor of Applied Biology (*on leave spring term*)  
 Venkatesh Narayanamurti, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences (*Dean of the Division of Engineering and Applied Sciences*)  
 Alfred A. Pandiscio, Senior Lecturer on Electronics on the Gordon McKay Endowment  
 James R. Rice, Gordon McKay Professor of Engineering Sciences and Geophysics (*on leave fall term*)  
 Peter P. Rogers, Gordon McKay Professor of Environmental Engineering  
 Irvin C. Schick, Lecturer on Engineering Sciences  
 Frans A. Spaepen, Gordon McKay Professor of Applied Physics  
 Garrett B. Stanley, Assistant Professor of Biomedical Engineering on the Gordon McKay Endowment  
 Howard A. Stone, Gordon McKay Professor of Chemical Engineering and Applied Mechanics  
 Steven C. Wofsy, Abbot Lawrence Rotch Professor of Atmospheric and Environmental Science, Associate of the Harvard Forest  
 Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science

### ***Other Faculty Offering Instruction in Engineering Sciences***

Jack T. Dennerlein, Assistant Professor of Ergonomics and Safety (Public Health)  
 Richard Wilson, Mallinckrodt Professor of Physics

The Division of Engineering and Applied Sciences offers undergraduate and graduate courses in



Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Recommended curricula may be obtained from the Academic Office, Pierce Hall 212b. 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 212b.

*Primarily for Undergraduates*

**Engineering Sciences 50. Digital Electronics in Scientific Experimentation**

Catalog Number: 4499

*Alfred A. Pandiscio*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 13*

Intended to give students in laboratory sciences and students contemplating a concentration in electronics a thorough grounding in the concepts and language of digital electronics as well as some experience applying these concepts in practice. Topics include analysis and design of combinational logic circuits, sequential logic circuits, state machines, programmable logic devices, and the essentials of analog signal conditioning techniques. “Hands-on” experience in the use of integrated circuits is provided by a combination of experiments done with a take-home lab kit, and some exercises using laboratory equipment and computers. A miniproject is assigned during the reading period.

*Note:* Some experience in a laboratory science is helpful but not required.

**Engineering Sciences 51. A Computer-Aided Design Approach to Engineering**

Catalog Number: 0322

*Roger W. Brockett*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

A first course in the design and construction of mechanical and electromechanical devices. Computational structures and algorithms for the representation and manipulation of geometrical data. Introduction to materials selections as applied to structural designs, including stress-strain analysis, thermal stresses, analysis, etc. Design of two-dimensional mechanisms; related rates, mechanical advantage. Computer controlled machine tools and their control languages; the speed and precision of machine tool operations. Designing to minimize vibration, wear, and noise; designing for reliability and longevity. Emphasis on laboratory work and individual design projects carried out using numerically controlled machine tools.

*Note:* An introductory engineering design course open to freshmen, sophomores, and juniors.

May not be taken concurrently with other engineering design courses.

*Prerequisite:* Mathematics 1b (may be taken concurrently); high school physics; experience with some programming language.

**\*Engineering Sciences 91r. Supervised Reading and Research**

Catalog Number: 1113

*Michael S. Brandstein and John W. Hutchinson*

*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 212b.

### **\*Engineering Sciences 96. Engineering Design Projects**

Catalog Number: 8461 Enrollment: Limited to 25

*Frederick H. Abernathy and Woodward Yang*

*Half course (spring term). M., Th., 2–4.*

Group project selected to provide experience in the processes and practice of engineering design. It is the central activity of a design seminar which, ordinarily, is taken in the spring term of the junior year.

*Note:* Preference given to S.B. candidates.

### ***For Undergraduates and Graduates***

### **\*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 semester version of \*Engineering Sciences 100hf 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 212b. 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 212b. 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*

Survey 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). Generation, manipulation and display of data bases, parameter estimation, choice among models, multivariate analyses, and robustness. 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

*Irvin C. Schick*

*Half course (spring term). M., W., 4:30–6. EXAM GROUP: 19*

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, 205, 208, 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 necessary.

*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 120. Introduction to the Mechanics of Solids**

Catalog Number: 1493

*James R. Rice*

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

A first course in the mechanical sciences which explains how materials and structures stretch, bend, twist, shake, buckle, and break. Forces in machines and statically determinate structures. Stress-strain behavior of structural materials. Statically indeterminate structures. Engineering beam theory with applications to beam deflections, vibrations, and buckling. Energy and virtual work methods for structures. Multiaxial stress and strain. Stress concentration; introduction to fatigue and fracture of engineering materials. Four or five 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 123. Introduction to Fluid Mechanics**

Catalog Number: 8323

*Igor Mezić*

*Half course (spring term). Tu., Th., 1–2:30, and laboratory. EXAM GROUP: 15, 16*

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 mechanical and chemical engineering, aerodynamics, 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

*Frederick H. Abernathy*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Modeling and analysis of mechanical and electromechanical systems. Topics include resonance, damping, frequency response, Laplace transform methods, Lagrange's equations, multiple degree-of-freedom systems, and rigid body rotations. Computer exercises on simulation of linear and nonlinear dynamic systems. Laboratory: experiments on vibration, stabilization, and complex dynamical system 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 22a,b; Physics 11a or 15a.

### **[Engineering Sciences 128. Computational Solid and Structural Mechanics]**

Catalog Number: 0359

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

Continuation of Engineering Sciences 120 in which continuum mechanics principles are developed at an intermediate level and implemented by computer, using the finite-element method, to solve problems of stressing, deformation, and motion of solid materials and structures. New concepts include plane stress and strain fields and introductions to wave propagation, vibrations, plate and shell structures, fracture mechanics, and creep and plasticity under general stress states. In computational work students develop simple finite-element analyses for beam structures and two-dimensional stress systems, using the general-purpose program ABAQUS, and do a project addressing a significant problem arising in mechanical, structural or materials engineering, biomechanics, or earth science.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Engineering Sciences 120.

### **Engineering Sciences 145. Introduction to Systems Analysis with Physiological Applications**

Catalog Number: 8197

*Jack T. Dennerlein and Garrett B. Stanley*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15*

A survey of systems theory with applications from bioengineering and physiology. Analysis: modeling real systems as discrete elements; nonlinear systems, the complementary nature of time and frequency methods; feedback; stability; biological oscillations. Applications: muscle dynamics and nerve function, cardiovascular regulation. Laboratory: use of the analog computer including neural models; feedback control systems; properties of frog muscle; cardiovascular function.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.



### Engineering Sciences 148. Bioelectric Signals and Their Processing in Neural Networks

Catalog Number: 0495

*Richard E. Kronauer and guest lecturers*

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

Examines the generation, transmission, and processing of signals in single nerve cells and in neural networks, with emphasis on physical principles and contemporary mathematical models. Develops relevant analytical techniques (network theory, random processes, differential equations). Special attention is given to the relation between physiology and psychophysics in mammalian visual systems.

*Prerequisite:* Applied Mathematics 21a or Mathematics 21a and physics at the level of Physics 15b. Engineering Sciences 145 is ideal preparation; Biological Sciences 25 may compensate for lesser preparation in mathematics or physics.

### **[Engineering Sciences 149. Muscles, Reflexes, and Locomotion]**

Catalog Number: 4152

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

The neuromuscular system and its workings seen through the use of mathematical models. The muscle proteins. Muscle heat. A. F. Huxley's mathematical model of crossbridge distribution with steady shortening. Models featuring several attached states. Theoretical models of reflex actions and their effects on walking and running. Consequences of body size. Comparison with robotic walking and running.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Engineering Sciences 145 and a knowledge of basic animal physiology.

### Engineering Sciences 151. Electromagnetic Communication

Catalog Number: 5742

*Aleksandar Kavcic*

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

A study of electromagnetics which emphasizes concepts of central importance in computer and communication technology. Topics include electromagnetic properties of matter; electromagnetic wave propagation through free-space and along waveguides; transmission line analysis; ray and beam optics: the eikonal and paraxial wave equations; characteristics of receiving and transmitting antennae. Applications illustrate critical factors which affect the design and limit the performance of communication systems.

*Prerequisite:* Familiarity with basic electromagnetism (Physics 15b), circuit analysis (Engineering Sciences 154), and Fourier analysis (Engineering Sciences 156, 125, or Applied Mathematics 105a).

### **[Engineering Sciences 152. Photonics: Optical Communication and Computing]**

Catalog Number: 5510

*R. Victor Jones*

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

Examines applications of optics and optoelectronics in information technology with particular emphasis on fiber optic communication. Topics include wave propagation through free-space,



anisotropic media, glass fibers, and planar dielectrics; light generation and amplification: laser models and characteristics; modulation, switching and scanning of light; fiber optic communication systems: device considerations, architectures, performance and potentialities.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Engineering Sciences 151 or equivalent.

### **Engineering Sciences 154. Introduction to Electronic Circuits**

Catalog Number: 6319

*R. Victor Jones*

*Half course (fall term). Tu., Th., 10–11:30, plus labs to be arranged. EXAM GROUP: 12, 13*

Presentation of basic circuit theory and electronic design. Topics include circuit analysis techniques; transient and frequency response; diode and transistor circuits; operational amplifier circuits; computer simulation of electronic circuits with SPICE. Additional laboratories illustrate techniques for measurement and design of real electronic circuits.

*Prerequisite:* An introduction to differential equations as in Applied Mathematics 21b or Mathematics 21b, and an introduction to electricity and magnetism as in Physics 11b or 15b.

### **[Engineering Sciences 155. Topics in Electronic Circuit Design]**

Catalog Number: 2248

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

Selected topics from the general areas of analog and digital electronic circuits with emphasis on the instrumentation applications of modern integrated circuits. Topics taken from the following: theory and application of operational amplifiers, analog to digital and digital to analog converters, stability analysis, oscillators, active filter design, and telecommunications systems. Laboratory work is an instrumentation project that runs throughout the semester. The project is structured to provide exposure to currently relevant integrated circuits, to a wide range of laboratory instruments, and to some of the logistical aspects of engineering design work.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Knowledge of basic circuit analysis.

### **Engineering Sciences 156. Signals and Systems**

Catalog Number: 6284

*Michael S. Brandstein*

*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. Computer Speech Generation and Recognition]**

Catalog Number: 1724

*Michael S. Brandstein*

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



Introduction to computer speech processing and human-machine communication by speech. Acoustic theory and models for speech production. Time- and frequency-domain analysis of speech signals. Speech coding: linear prediction, vector quantization. Vocoder and text-to-speech synthesis. Theory and methodologies for computer speech recognition: dynamic pattern matching, hidden Markov models, neural networks.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Engineering Sciences 156 or permission of instructor.

### **Engineering Sciences 158. Digital Communications**

Catalog Number: 7721

*Aleksandar Kavcic*

*Half course (spring term). M., W., 3–4:30. EXAM GROUP: 8, 9*

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.

*Prerequisite:* Engineering Sciences 156 and a course in probability theory and/or statistics.

### **Engineering Sciences 159. Introduction to Robotics**

Catalog Number: 3126

*Robert D. Howe*

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

Introduction to computer-controlled robotic manipulators. Topics include coordinate frames and transformations, kinematic structure and solutions, statics and dynamics of serial chain manipulators, control and programming, robot design, and actuation and sensing devices. Laboratory exercises provide experience with industrial robot programming and robot simulation and control.

*Prerequisite:* Computer Science 50, and either Engineering Sciences 125 or 156.

### **Engineering Sciences 162. Hydrology**

Catalog Number: 4163

*Ana P. Barros*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduces hydrological principles focusing on precipitation, evapotranspiration, infiltration, groundwater, and runoff production mechanisms. Emphasis is placed on water budgets, and the linkages between land-use, soils, and vegetation and water needs for water resources assessment studies. Hydrological data collection and standard analysis are presented. Conceptual process-based, and empirical rainfall-runoff relationships are reviewed. Hydrologic planning and design methods and tools are treated in detail.

*Prerequisite:* Applied Mathematics 21b, or Mathematics 21b, or equivalent, and Engineering Sciences 123. Knowledge of statistics and probability are desirable. (Students who lack this background will do some extra work).

**[Engineering Sciences 163. Groundwater Flow and Solute Transport]**

Catalog Number: 3828

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

Fundamentals of subsurface flow and transport, emphasizing the role of groundwater in the hydrologic cycle, the relation of groundwater flow and chemistry to geologic structure, and cleanup and containment of contaminated groundwater. Topics will include: Darcy's law, the aquifer flow equation, recharge and evapotranspiration, unsaturated flow, contaminant transport processes, regional circulation, spatial heterogeneity, well hydraulics, and numerical groundwater models.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Calculus.

**Engineering Sciences 165. Introduction to Environmental Engineering**

Catalog Number: 4274

*Peter P. Rogers*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduces engineering technologies for 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 advanced undergraduates or graduates without background in environmental engineering.

*Prerequisite:* Some exposure to the material in Earth and Planetary Sciences 107 and Engineering Sciences 162 is recommended; Applied Mathematics 21a or 21b, or Mathematics 21a and 21b or equivalent mathematical background is required.

**[Engineering Sciences 166. Principles of Environmental Data Analysis, Measurements, and Modeling]**

Catalog Number: 3598

*Steven C. Wofsy*

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

An introduction to the experimental, statistical, and computational methods used in environmental research, with an emphasis on atmospheric chemistry and global biogeochemistry. Students will develop and implement computer models of natural systems and will analyze data from laboratory and field measurements using statistical and simulation methods. Applications will be taken from current research in air pollution and global change. The course will be taught partly in seminar format and will include two design projects.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* An atmospheric or environmental chemistry course, such as Earth and Planetary Sciences 133 or 200, or permission of the instructor.

**Engineering Sciences 167. Environmental Assessment**

Catalog Number: 6885

*Peter P. Rogers*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

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 Earth & Planetary Sciences 107 and Engineering Sciences 162, plus economics at least at the level of Social Analysis 10.

### **Engineering Sciences 181. Thermodynamics and Introduction to Statistical Mechanics**

Catalog Number: 3889

*Michael J. Aziz*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Elements of thermodynamics from a macroscopic viewpoint; discussion of statistical thermodynamics included. Topics: empirical temperature and zeroth law, properties of pure substances, first law and internal energy, second law, entropy, Gibbs and Helmholtz free energies, flow processes, power cycles, phase equilibria, properties of solutions, statistical thermodynamics, third law, statistical basis for equations of state of gases and liquids. Laboratory included.

*Prerequisite:* Physics 11 or 15 and 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

*Frans A. Spaepen*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to the structure and properties of materials. Bonding between atoms. Crystal structure. Diffraction and microscopy. Phase transformations: phase diagrams, diffusion, nucleation and growth. Mechanisms of deformation and fracture. Effect of microstructure on properties. Materials selection and design.

*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 30. Environmental Microbiology]**

**[Earth and Planetary Sciences 136. Marine Chemistry]**

### ***Primarily for Graduates***

Additional courses of interest to graduate students in Decision, Control, and Communication include: Economics 2010a, 2010b, 2010c, 2110b, 2140a; Statistics 110, 171.

**[Engineering Sciences 201. Decision Theory]**

Catalog Number: 2362

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

Mathematical analysis of decision making under uncertainty. Axiomatic derivation of subjective probability and utility. Decision trees, normal and extensive form, value of information.



Bayesian inference. Comparison with classical forms of inference. Optimal sample size. Estimation and sequential decision problems. Normal and regression models. Applications to business decisions, engineering problems, sampling, etc.

*Note:* Expected to be given in 2000–01.

*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

*Roger W. Brockett*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

Study of dynamic systems under deterministic and stochastic inputs. Calculus of variations. Maximum principle, mathematical and dynamic programming approaches to the optimization of dynamic systems. Controllability and observability, linear quadratic control synthesis, numerical methods for the solution of optimal control problems, Kalman filtering and estimation. Applications from mechanics, aerospace sciences, environmental systems, operations research, and economics.

*Prerequisite:* Good background in linear differential equations, matrix algebra, and introductory probability. Applied Mathematics 21a,b or Mathematics 21a,b, and Statistics 110 or equivalent.

### **Engineering Sciences 203. Stochastic Control**

Catalog Number: 6982

*Roger W. Brockett*

*Half course (spring 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 omitted in 2000–01.

*Prerequisite:* Applied Mathematics 105a,b or equivalent. Some prior exposure to probability; Engineering Sciences 202 desirable but not essential.

### **Engineering Sciences 205. Analysis and Simulation of Discrete Event Dynamic Systems**

Catalog Number: 1569

*Yu-Chi Ho*

*Half course (spring term). W., 2:30–5:30. EXAM GROUP: 7, 8, 9*

Discrete Event Dynamic Systems (DEDS) are man-made organizations such as manufacturing plants, communication networks, computer complexes, and other large operations like a metropolitan airport. Covers various models for DEDS including automata, petri-nets, min-max algebra, queuing networks, and simulation. Emphasis on techniques for performance analysis of DEDS, particularly intelligent simulation, queuing theory, and optimization.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Applied Mathematics 21a,b, or Mathematics 21a,b, and Statistics 110 (or equivalents). Elementary knowledge of computer programming.



**[Engineering Sciences 208. Risk Assessment in Engineering and Biological Systems ]**

Catalog Number: 1527

*Richard Wilson and guest lecturers*

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

Methods of assessing risk in systems: chemical plant failures, nuclear power plants, pollutant transport and chemical carcinogens. Different approaches historical, fault tree, and analogy—studied and compared. Statistical methodology emphasized, Bayesian analysis and stochastic models discussed, so that assessments will be useful to decision makers about risks.

*Note:* Expected to be given in 2000–01. Experts on specific risk problems give guest lectures.

*Prerequisite:* Some understanding of statistics.

**[Engineering Sciences 209. Nonlinear Control Systems]**

Catalog Number: 1194

*Roger W. Brockett*

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

The study of nonlinear input-output systems and the qualitative behavior of dynamical systems. Topics include controllability, observability, uniqueness of models, decomposition theory, asymptotic stability, periodic solutions, and strange attractors. Local and global methods of differential geometry and Lie theory developed and used as needed.

*Note:* Expected to be given in 2000–01.

**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, Karmarkar's method. Unconstrained optimization, Kuhn-Tucker theory, nonlinear programming.

*Note:* Expected to be omitted in 2000–01. Offered in alternate years.

*Prerequisite:* Applied Mathematics 21a and 21b, or Mathematics 21a and 21b; Applied Mathematics 120, or equivalent, would be helpful, but is not required.

**Engineering Sciences 215. Advanced Introduction to Systems Analysis with Physiological Applications**

Catalog Number: 5493

*Jack T. Dennerlein and Garrett B. Stanley*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Students are expected to meet all of the requirements of Engineering Sciences 145 and in addition are required to write a term paper with significant analytic emphasis.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.

**Engineering Sciences 218. Advanced Bioelectric Signals and Their Processing in Neural Networks**

Catalog Number: 7709

*Richard E. Kronauer and guest lecturers*

*Half course (spring term). Tu., Th., 10–11:30, and a third hour to be arranged. 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 25 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 11. EXAM GROUP: 4*

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 225r. Special Topics in Fluid Dynamics: Applications in Low-Reynolds-Number Hydrodynamics]**

Catalog Number: 3982

*Howard A. Stone*

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

Current topics will center around applications of low-Reynolds-number hydrodynamics to problems of current interest in engineering, physics and chemistry. Topics to be covered include the dynamics of bubbles and drops, applications of integral equations methods for free-boundary problems involving viscous flows (and potential flows), swimming microorganisms, electrokinetics and electrophoresis, as well as some non-traditional boundary value problems that arise in applications involving either mixed boundary conditions or the biharmonic equation.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A previous graduate course in fluid dynamics is strongly recommended, e.g., Engineering Sciences 220.

### Engineering Sciences 240. Solid Mechanics

Catalog Number: 2984

*John W. Hutchinson*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Foundations of continuum mechanics and development of elasticity theory: conservation laws; concepts of stress and strain; theory of constitutive response; mechanical behavior of materials. Vectorial, dyadic, and tensorial form of equations. Elementary elasticity solutions for waves and vibrations; stresses due to rotation, temperature change, dislocations, and surface loading; bending and torsion; buckling instabilities. Plate theory.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Applied Mathematics 105a,b or equivalent; introduction to solid mechanics at the level of Engineering Sciences 120, or Earth and Planetary Sciences 166, or Applied Physics 293.

**[Engineering Sciences 241. Advanced Elasticity]**

Catalog Number: 6711

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*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Plane elasticity and complex variable methods. Linear elastic fracture mechanics. Basic three-dimensional problems. Inclusions and inhomogeneities. Dynamic elasticity, waves. Elastic theory of composite materials and cracked bodies. Bending and buckling of plates.

*Note:* Expected to be given in 2000–01. Continuation of Engineering Sciences 240.

*Prerequisite:* Engineering Sciences 240 and Applied Mathematics 201 or equivalent.

**Engineering Sciences 242r. Solid Mechanics: Advanced Seminar**

Catalog Number: 5379

*John W. Hutchinson and Joost Vlassak**Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Topic in 1999–00: The mechanics of thin films and multilayers. Residual stresses in films and their origin. The mechanics of cracking and decohesion. Yield strength and interface toughness.

*Prerequisite:* Engineering Sciences 240.

**[Engineering Sciences 246. Plasticity and Finite Deformation]**

Catalog Number: 4271

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

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, polycrystals. Ideal plasticity. Boundary value problems, plastic collapse, buckling of structures. Finite strain measures of stress and strain, localization instabilities, void growth mechanisms.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Engineering Sciences 240, or equivalent.

**Engineering Sciences 247. Fracture Mechanics**

Catalog Number: 7152

*John W. Hutchinson**Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Fundamentals of fracture with applications in materials and structural mechanics.

Micromechanics of fracture and fatigue in ceramics, metals, and polymers. Fracture of composite materials. Interfacial fracture mechanics. Plasticity and creep effects.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Engineering Sciences 240 or equivalent.

**[Engineering Sciences 248. Fluid Flow in the Human Body]**

Catalog Number: 3278

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

Principles of fluid mechanics, hydroelasticity, and wave theory important to medical physiology.

Analytic descriptions of blood rheology, flow in the microcirculation, pulsatile blood flow,



sounds in the cardiovascular and respiratory systems, lung mechanics, deposition of particles, peristalsis.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* An introduction to partial differential equations as in Applied Mathematics 105b.

**[Engineering Sciences 257. Advanced Computer Speech Generation and Recognition]**

Catalog Number: 5006

*Michael S. Brandstein*

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

The contents and course requirements are similar to Engineering Sciences 157, with the exception that students enrolled in Engineering Sciences 257 are required to prepare a term project analyzing a specific problem or methodology of speech processing.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Engineering Sciences 156 or permission of instructor.

**Engineering Sciences 258. Advanced Digital Communications**

Catalog Number: 8645

*Aleksandar Kavcic*

*Half course (spring term). M., W., 3–4:30. EXAM GROUP: 8, 9*

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.

*Prerequisite:* Engineering Sciences 156 and a course in probability theory and/or statistics.

**Engineering Sciences 259. Advanced Introduction to Robotics**

Catalog Number: 3671

*Robert D. Howe*

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

The contents and course requirements are similar to those of Engineering Sciences 159, with the exception that students enrolled in Engineering Sciences 259 are required to prepare a term project analyzing current research in a specific problem area within Robotics.

*Prerequisite:* Computer Science 50 and either Engineering Sciences 125 or 156.

**Engineering Sciences 260. Engineering Systems for Environmental Control**

Catalog Number: 1180

*Joseph J. Harrington*

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

Provision of urban water; engineering aspects of collection and disposal of spent water and solid wastes; significant interchanges between gaseous, liquid, and solid phases of the environment; geographic interchanges; time-dependent developments. Data collection and processing for monitoring and control; maintenance and operation of pollution control systems.

*Note:* Expected to be omitted in 2000–01. Given in alternate years.

*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). Hours to be arranged.*

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 2000–01. Given in alternate years.

*Prerequisite:* Applied Mathematics 21b or Mathematics 21b or equivalent.

**Engineering Sciences 262r. Stochastic Methods in Hydrology and Environmental Science**

Catalog Number: 5658

*Peter P. Rogers and Ana P. Barros*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Statistical methods of characterizing variability and uncertainty in environmental systems. We will begin with time series descriptions of streamflow and stochastic reservoir management. We will then discuss quantitative methods of describing spatial structure and variability and will consider assimilation of rainfall data, and estimation of soil and aquifer parameters.

*Prerequisite:* Engineering Sciences 101 or permission of the instructor.

**[Engineering Sciences 264. Chemistry of Natural and Polluted Waters]**

Catalog Number: 1838

*James N. Butler*

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

Chemical aspects of aqueous environmental systems, including thermodynamic, kinetic, biological, and hydrodynamic processes. Applications to water quality management, pollution control, geochemistry, oceanography.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physical chemistry of electrolyte solutions (e.g., Chemistry 10 or Earth and Planetary Sciences 136), differential equations (e.g., Applied Mathematics 21b or Mathematics 21b), and some experience with biology and geology.

**Engineering Sciences 299r. Special Topics in Engineering Sciences**

Catalog Number: 6710

*Venkatesh Narayanamurti*

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

Supervision of experimental or theoretical research on acceptable applied science problems and supervision of reading on topics not covered by regular courses of instruction.

*Note:* Open to graduate students and A.B./S.M. candidates only. Students must arrange such work with a member of the Division. This course is ordinarily taken with the approval of the Committee on Higher Degrees in certain cases when a letter grade is required. Applicants should file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 212b.



*Cross-listed Courses*

**[Earth and Planetary Sciences 202. Introduction to the Dynamics of Atmospheres and Oceans](#)**

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 303,304. Topics in Electronic Materials and Semiconductor Heterostructure Physics**

Catalog Number: 8668,2824

*Venkatesh Narayanamurti 5445*

**\*Engineering Sciences 305,306. Manufacturing**

Catalog Number: 6157,6159

*Frederick H. Abernathy 1047*

**\*Engineering Sciences 307,308. Control Theory, Robotics, Computer Vision, and Intelligent Machines**

Catalog Number: 7566,2719

*Roger W. Brockett 3001*

**\*Engineering Sciences 309,310. Design, Sensing, and Control**

Catalog Number: 5043,7419

*Robert D. Howe 2789*

**\*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. VLSI Signal Processing**

Catalog Number: 3557,2722

*Woodward Yang 2790*

**\*Engineering Sciences 321,322. Shannon Theory, Digital Communications, and Reliable Transmission of Information**

Catalog Number: 9317,2330

*Aleksandar Kavcic 1261*



**\*Engineering Sciences 335,336. Mechanics of Engineering Materials and Small Devices**

Catalog Number: 8173,2399

*Joost J. Vlassak*

**\*Engineering Sciences 337,338. Solid Mechanics, Theory of Fracture and Faulting**

Catalog Number: 4316,3948

*James R. Rice 7270 (on leave fall term)*

**\*Engineering Sciences 339,340. Fluid Mechanics**

Catalog Number: 1744,7810

*Frederick H. Abernathy 1047*

**\*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. Physiological Systems, Nonlinear Oscillations, Visual Signal Processing**

Catalog Number: 5119,1174

*Richard E. Kronauer 1087*

**\*Engineering Sciences 347,348. Biological Systems Analysis and Control**

Catalog Number: 6761,3310

*Garrett B. Stanley 2797*

**\*Engineering Sciences 349,350. Special Topics in Dynamical Systems and Applications**

Catalog Number: 6691,2087

*Igor Mezic 3139 (fall term only)*

**\*Engineering Sciences 355,356. Speech and Audio Processing**

Catalog Number: 4605,7048

*Michael S. Brandstein 2794*

**\*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 367,368. Aquatic Chemistry**

Catalog Number: 7136,8504

*James N. Butler 3453 (on leave fall term)*

**\*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 (on leave spring term)*

**\*Engineering Sciences 381,382. Physical Hydrology and Hydrometeorology**

Catalog Number: 2968,4821

*Ana P. Barros 2515*

**\*Engineering Sciences 391,392. Environmental Engineering**

Catalog Number: 3979,2860

*Joseph J. Harrington 2427*

## 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*

Lawrence Buell, Harvard College Professor and the John P. Marquand Professor of English  
(*Chair*)

Richard Charles Adams, Assistant Professor of English and American Literature and Language  
and of History and Literature

Sacvan Bercovitch, Charles H. Carswell Professor of English and American Literature and  
Language



Juan Bruce-Novoa, Visiting Professor of English and American Literature and Language  
(*University of California-Irvine*)  
Robert Brustein, Professor of English  
Leo Damrosch, Ernest Bernbaum Professor of Literature  
Daniel G. Donoghue, Professor of English and American Literature and Language  
James Engell, Professor of English and Comparative Literature  
Lynn Mary Festa, Instructor in English and American Literature and Language  
Philip J. Fisher, Felice Crowl Reid Professor of English and American Literature  
Forrest Gander, Briggs-Copeland Lecturer on English and American Literature and Language  
Marjorie Garber, William R. Kenan, Jr. Professor of English  
Henry Louis Gates, Jr., W.E.B DuBois Professor of the Humanities  
Jorie Graham, Boylston Professor of Rhetoric and Oratory (*on leave spring term*)  
Stephen J. Greenblatt, Professor of English and American Literature and Language (*on leave fall term*)  
Joseph C. Harris, Professor of English and Folklore (*Director of Undergraduate Studies*)  
Seamus Heaney, Ralph Waldo Emerson Poet in Residence  
Alan Heimert, Powell M. Cabot Professor of American Literature (*on leave 1999-00*)  
Yunte Huang, Assistant Professor of English and American Literature and Language  
Noel Ignatiev, Lecturer on History and Literature  
Oren Jeremy Izenberg, Instructor in English and American Literature and Language  
Biodun Jeyifo, Visiting Scholar in the W.E.B. Du Bois Institute, Visiting Professor of Afro-American Studies and of English and American Literature and Language (*Cornell University*)  
Barbara E. Johnson, Fredric Wertham Professor of Law and Psychiatry in Society  
Walter Kaiser, Francis Lee Higginson Professor of English Literature and Professor of Comparative Literature and Director of Villa I Tatti  
Adrienne Kennedy, Visiting Lecturer on English and American Literature and Language  
Robert Kiely, Donald P. and Katherine B. Loker Professor of English  
Jamaica Kincaid, Visiting Lecturer on Afro-American Studies and on English and American Literature and Language  
Rebecca L. Krug, Assistant Professor of English and American Literature and Language (*on leave spring term*)  
Barbara K. Lewalski, William R. Kenan, Jr., Professor of History and Literature and of English Literature (*Director of Graduate Studies*)  
Jesse E. Matz, Assistant Professor of English and American Literature and Language (*on leave 1999-00*)  
Kyoko Mori, Briggs-Copeland Lecturer on English and American Literature and Language  
Elisa New, Professor of English and American Literature and Language (*on leave fall term*)  
Derek A. Pearsall, Gurney Professor of English Literature (*on leave spring term*)  
Patricia E. Powell, Briggs-Copeland Lecturer on English and American Literature and Language  
Ann Wierda Rowland, Instructor in English and American Literature and Language  
Neil L. Rudenstine, Professor of English and American Literature and Language and President of Harvard University  
Peter Sacks, Professor of English and American Literature and Language  
Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value  
Sharmila Sen, Instructor in English and American Literature and Language  
Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English



Michael Shinagel, Senior Lecturer on English and Dean of Continuing Education and University Extension School

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of Afro-American Studies (*on leave 1999-00*)

John Stauffer, Assistant Professor of History and Literature and of English and American Literature and Language

Roger E. Stoddard, Senior Lecturer on English

Helen Vendler, Arthur Kingsley Porter University Professor

Brad Watson, Briggs-Copeland Lecturer on English and American Literature and Language

Susanne Lindgren Wofford, Visiting Professor of English and American Literature and Language, Visiting Scholar in English and American Literature and Language (*University of Wisconsin-Madison*)

The normal introduction to courses in English is English 10a and 10b, which are required for concentrators.

## ***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 Cap. Advanced Poetry Workshop**

Catalog Number: 6523 Enrollment: Limited to 15

*Jorie Graham*

*Half course (fall term). Th., 3–6. EXAM GROUP: 17, 18*

Open by application to undergraduates and graduates alike. 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 will last 3 hours and discussions will include the study of poetic practice alongside the discussion of student work.

#### **\*English Cpr. Poetry Writing I**

Catalog Number: 3053 Enrollment: Limited to 15

*Forrest Gander*

*Half course (fall term; repeated spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A concentrated workshop in poetry writing for those who wish to improve as poets while broadening their knowledge of contemporary American poetry.

*Note:* Admission based on previously submitted samples of writing.

#### **\*English Cpw. Poetry Workshop**

Catalog Number: 4606 Enrollment: Limited to 15.

*Jorie Graham (fall term) and Peter Sacks (spring term)*

*Half course (fall term; repeated spring term). Fall: W., 3–6; Spring: Tu., 2–4. EXAM GROUP: Fall: 8, 9; Spring: 16, 17*



Open by application to undergraduates and graduates alike. 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 discussions will include the study of literary texts alongside work written by students.

**\*English Cqr. Poetry Writing II**

Catalog Number: 2644 Enrollment: Limited to 15

*Forrest Gander*

*Half course (fall term; repeated spring term). W., 2–4. EXAM GROUP: 7, 8*

See \*English Cqr above.

**\*English Crr. Fiction Writing I**

Catalog Number: 1893 Enrollment: Limited to 15

*Brad Watson*

*Half course (fall term; repeated spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Discussion of students' work in a workshop format.

*Note:* Admission based on previously submitted samples of writing.

**\*English Csr. Fiction Writing I**

Catalog Number: 2601 Enrollment: Limited to 15

*Patricia E. Powell*

*Half course (fall term; repeated spring term). Tu., 2–4. EXAM GROUP: 16, 17*

An introduction to the techniques and forms of fiction. Classroom discussion of student manuscripts and frequent conferences with the instructor.

*Note:* Admission based on previously submitted samples of writing.

**\*English Ctr. Advanced Fiction Writing**

Catalog Number: 7175

*Brad Watson*

*Half course (fall term; repeated spring term). W., 2–4. EXAM GROUP: Spring: 7, 8*

Discussion of students' work in a workshop format.

*Note:* Admission based on previously submitted samples of writing. Generally for students who have taken fiction workshops before.

**English Cvr. Fiction Writing**

Catalog Number: 1223

*Jamaica Kincaid*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

A seminar/workshop. Readings include Bruno Schultz, Jean Toomer, Robert Walser, and Rimbaud's *Illuminations*, among others.

*Note:* Submissions from experienced fiction writers are welcome.

**\*English Cwr. Fiction Writing II**

Catalog Number: 7765 Enrollment: Limited to 15

*Patricia E. Powell*

*Half course (fall term; repeated spring term). W., 2–4. EXAM GROUP: Spring: 7, 8*



An advanced workshop for students who have had experience writing fiction. Student work will be discussed in class in a workshop format and in individual conferences.

*Note:* Admission based on previously submitted samples of writing.

**\*English Cyr. Nonfiction Writing**

Catalog Number: 8545 Enrollment: Limited to 15

*Kyoko Mori*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

These workshops will provide a professional atmosphere in which apprentice writers may study their craft, by practicing it themselves, by critiquing the works-in-progress of their peers, and by studying the work of established writers in the genre. Class participants should expect to spend substantial out-of-class time on each of these pursuits. The workshop period itself takes the form of a round-table discussion, primarily of student writing, but also of the assigned readings and craft topics. By the end of our studies, workshop participants should have grasped the terms and techniques associated with various nonfictional fields (memoir, nature writing, and so on), and should be confident reading their own work and the work of others critically and with an eye to revision.

*Note:* Freshmen admitted only with evidence of unusual qualification. All applicants should submit a brief sample of their writing during the first week of the term.

**\*English Czir. Advanced Nonfiction Writing**

Catalog Number: 5347 Enrollment: Limited to 15

*Kyoko Mori*

*Half course (fall term; repeated spring term). Fall and Spring: Tu., 2–4. EXAM GROUP: 16, 17*  
See \*English Cyr.

**\*English Yzr. Playwriting**

Catalog Number: 4466 Enrollment: Limited to 15.

*Adrienne Kennedy*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Each student is required to complete a one act play. The first weeks are spent exploring imagery, language and the imagination through exercises. We also read selected playwrights...Chekhov, Beckett, Pinter and others.

***II. Literature***

***Primarily for Undergraduates***

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

Catalog Number: 8327

*Derek A. Pearsall*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

An introduction to the study of British literature from the Middle Ages through the 18th century. Emphasis on lyric and narrative poetry; four plays are also read.

*Note:* Two lectures and one section meeting per week. Required of English concentrators. Open to freshmen.



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

Catalog Number: 0550

*Leo Damrosch*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Readings will include poetry from the Romantics to the present; two plays, *Waiting for Godot* by Samuel Beckett and *Cloud Nine* by Caryl Churchill; and four narrative works, *Middlemarch* by George Eliot, *Alice in Wonderland* by Lewis Carroll, *To the Lighthouse* by Virginia Woolf, and *Decline and Fall* by Evelyn Waugh.

*Note:* Two lectures and one section meeting per week. Required of English concentrators. Open to freshmen.

### **English 13. The English Bible**

Catalog Number: 6532

*Robert Kiely*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

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.

### **English 17. American Literature from the Beginnings to Whitman**

Catalog Number: 3883

*Sacvan Bercovitch*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

An introduction to the study of American literature, 1620-1860, from Anne Bradstreet and Benjamin Franklin to Frederick Douglass and Walt Whitman. Readings include the canonical texts of the American literary renaissance by Emerson, Whitman, and Thoreau, Hawthorne and Melville, as well as major writings from a variety of genres, including Native American myths, captivity and slave narratives, sermons, autobiographies, and short stories.

### **[English 20. The English Novel]**

Catalog Number: 4754

*Jesse E. Matz*

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

A study of the English novel from its birth to its prime, with readings in one history of the “rise” of the novel and various accounts of its characteristic forms and concerns. Authors will include Defoe, Fielding, Austen, Brontë, Dickens, Hardy, Forster, and Woolf.

*Note:* Expected to be given in 2000–01.

### **English 34. Elements of Rhetoric**

Catalog Number: 3820

*James Engell*

*Half course (spring term). M., W., at 12. EXAM GROUP: 5*

Elements of rhetoric and style; present applications of classical rhetoric (Aristotle, Quintilian, Cicero); Golden Age of Anglo-American rhetoric and prose argument (Hugh Blair, J.Q. Adams, and others) with examples from writers (Addison, Jefferson, Webster, Lincoln, and others); 20th-century rhetoric with an emphasis on public argument and political oratory (Churchill, Kennedy,



King, and others); this is a practical course to improve writing and speaking skills while also drawing on significant rhetorical theories and practice.

**[\*English 71. The Literature of American Religion]**

Catalog Number: 4483 Enrollment: Limited to 15

*Alan Heimert*

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

From the Settlement of Virginia to the Revival of 1858.

*Note:* Expected to be given in 2000–01.

***Undergraduate Seminars***

These introductions to specialized study of literature are restricted to undergraduates and have enrollments limited to 15. Preference is given to English concentrators.

**\*English 90aa (formerly English 140a). Augustan Age Literature**

Catalog Number: 8554

*James Engell*

*Half course (fall term). Th., 2–4.*

Writers from 1660 to 1740, seeking to reinvent “literature” in a post–Renaissance age. Emphasis on Dryden, the poetry of Pope, the satires of Swift, philosophy, and social and political issues.

**\*English 90ai. Inventing Anglophone India**

Catalog Number: 1896

*Sharmila Sen*

*Half course (spring term). W., 1–3.*

Where is India and how can it be contained or conjured on paper, canvas, celluloid, or concrete? This course engages with the discourse surrounding an India which both fashions and is fashioned by texts written in English. While traversing a few centuries and a vast subcontinent, we shall focus on key moments, reading selected travel narratives, plays, novels, letters, political speeches (and even films, lithographs, and the built environment). Some of the authors to be read include Dryden, Macaulay, Canning, Kipling, Forster, Desai, Rushdie, Naipaul, Kureishi, and Dabydeen.

**\*English 90am. Language and Culture in American Modernism**

Catalog Number: 0412

*Yunte Huang*

*Half course (spring term). Tu., 12–2.*

This course explores the issues of language and culture in modern American literature, suggests reading modernism as a reconceptualization of language, and relates “language” to the concept of culture, as understood in the early decades of the century. Readings include Henry James, Franz Boas, Gertrude Stein, T.S. Eliot, William Carlos Williams, Mary Austin, and Zora Neale Hurston.

**\*English 90aw. The Poetics of Asian American Writing**

Catalog Number: 0523

*Yunte Huang*



*Half course (spring term). M., 3–5.*

This course explores the intricate relationships between form and content in given historical contexts with the belief that what is often regarded lightly or even negatively as "form" actually embodies the "content" and carries the historical weight of Asian American writing. Readings include both realist and surrealist fiction, humorous essays, travel narratives, "fake" translations, and experimental poetry.

### **English 90ca. Comparative 20th Century Anglophone Drama**

Catalog Number: 4515

*Biodun Jeyifo (Cornell University)*

*Half course (spring term). W., 1–3.*

This course will explore 20th century *Anglophone* drama in diverse areas of the English-speaking world. Through works of Irish, African, Caribbean and U.S. playwrights like O'Casey, Friel, Soyinka, Fugard, Walcott, Wilson, and Shange, the seminar will be organized around two principal issues: the use of folk, ritual, vernacular and carnivalesque performance idioms to transform the received genre of Western *literary* drama; themes of empire, colony and postcolony in the making of the modern world. Some knowledge of classical and avantgarde theories of drama and theatre would be useful, but is not a prerequisite for this course.

### **\*English 90cf. Caribbean Fictions**

Catalog Number: 8964

*Sharmila Sen*

*Half course (fall term). M., 3–5.*

The Caribbean is a place for tourists, a paradise; it is an area of contemporary poverty, a realm of natural disasters; it is the promise of sugared profit and the site of unspeakable taboo acts; it is Caliban's fate. And perhaps it is none of these things. We shall focus on some of the current questions in Caribbean fictions, paying attention to the genealogies of such concerns and debates. Readings include works by Behn, Rhys, Naipaul, Lamming, Harris, Phillips, Conde, Cliff, Shinebourne and Powell among others.

### **English 90en (formerly English 141). The English Novel before 1800**

Catalog Number: 8683

*Michael Shinagel*

*Half course (spring term). M., 3–5.*

The development of the novel in England seen through a study of representative major works by Bunyan, Defoe, Richardson, Fielding, Smollett, Sterne, Burney, and Austen.

### **[English 90fa. Fictions of the Aesthetic]**

Catalog Number: 1224

*Jesse E. Matz*

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

The course considers both the theory or "fiction" of aesthetic experience and works of fiction that explore the experience of art. The course focuses on Henry James and reads him in the context of theories and fictions by Nietzsche, Pater, Wilde, Woolf, Adorno, Benjamin, and others.

*Note:* Expected to be given in 2000–01.



**[\*English 90hs. Satire: Augustan and Modern]**

Catalog Number: 8795

*Michael Shinagel*

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

A study of satire in poetry, prose fiction, and drama. Among the authors to be read are Dryden, Swift, Pope, Johnson, Gay, Voltaire, Orwell, Brecht, Vonnegut, and West.

*Note:* Expected to be given in 2000–01.

**\*English 90it. The Poet in the Novel**

Catalog Number: 2707

*Oren Jeremy Izenberg*

*Half course (spring term). Th., 3–5.*

The most private, "difficult" and unpopular of the arts makes occasional but important appearances in the most public and popular, bringing with it questions about the social function of the imagination, kinds of literature and kinds of knowledge, the relation between high and mass culture. This course studies 20th century novels (and films) in which poets and poetry appear as central characters and concerns: Joyce's *Portrait of the Artist as a Young Man*, Nabokov's *Pale Fire*, Bellow's *Humboldt's Gift*, A.S. Byatt's *Possession*, P. Fitzgerald's *The Blue Flower*, Cocteau's *Orphee*, Hal Hartley's *Henry Fool* and others.

**\*English 90kf. Fictions of Kinship**

Catalog Number: 0199

*Marc Shell*

*Half course (fall term). M., 3–5.*

Special attention to the politics of the incest taboo, the ideal of universal siblinghood, confusions of kin with kind, and notions of national identity. Works include Mark Twain's *Pudd'nhead Wilson*, Jean Racine's *Britannicus*, Shakespeare's *Hamlet*, H.G. Wells' *War of the Worlds*, Coleridge's "To an Ass", Sophocles' *Oedipus the King*, *Mirror of the Sinful Soul* by Queen Elizabeth I, Melville's *Pierre*, and Nabokov's *Ada*.

**\*English 90kw. The American Civil War**

Catalog Number: 1957

*John Stauffer*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Studies in the literature of the American Civil War, from letters, speeches, poetry, and photography to diaries, stories, and novels. Considers aesthetic, historical, and intellectual dimensions, and focuses in particular on national and sectional identities; the transition from romanticism to realism; generic modes in relation to gendered, class, racial, regional, and religious issues; and meanings of slavery and freedom. Authors include Stowe, Frederick Douglass, Lincoln, Whitman, Melville, Mary Chesnut, Louisa May Alcott, Twain, Bierce, Crane, Tourgee, and others.

**\*English 90lb. Letters of Business and the Business of Letters: The American Literary Enterprise**

Catalog Number: 8890

*Richard Charles Adams*



*Half course (spring term). Th., 1–3.*

The literary men and women of American business, from Bartleby to Babbit, Cotton Mather and Franklin to Dreiser. We will investigate pronouncements like T.S. Eliot's that Americans, "like to be told that they are a race of commercial buccaneers," as well as doubts such as Teddy Roosevelt's, that the national type might be the "glorified huckster or glorified pawnbroker." Issues to be discussed include the advent of the professional writer and the cultural construction of the entrepreneur. The novels, stories, and criticism of Hawthorne, Fanny Fern, Norris, and Wharton will be supplemented by the works of writers such as Veblen, Bellamy, Clark and James Truslow Adams.

**\*English 90lj. The Idea of Italy**

Catalog Number: 3054

*Robert Kiely*

*Half course (spring term). W., 2–4.*

An examination of 19th- and early 20th-century English and American representations of Italy in fiction, narrative poetry, and nonfictional prose. Authors include Byron, Ruskin, Pater, Browning, George Eliot, Hawthorne, Twain, James, and Forster. Special attention paid to art, religion, and conceptions of Italian character.

**English 90ma. The Other Middle Ages**

Catalog Number: 6139

*Sarah Tolmie*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

An overview of non-Chaucerian, non-Arthurian and non-Trojan works in Middle English, divided into three interlocking sections: first, poets of the fifteenth century, including Hoccleve, Lydgate, Charles d'Orleans and King James I of Scotland, James I will serve as an introduction to a section on vernacular writing in Scotland, including selections from historiography (John Barbour's *The Bruce*, Andrew Wyntoun's *Croykils*) short poems by Henryson and Dunbar, and extracts from Gavin Douglas's translation of the *Aenied*; finally the course will conclude with an overview of the important tradition of Alexander the Great romances, focusing on the oriental fantasy Alexander and Dindimus.

**\*English 90md (formerly \*English 278z). American Dissent**

Catalog Number: 3287

*Sacvan Bercovitch*

*Half course (spring term). M., 3–5.*

Study of the mainstream American tradition of dissent through close readings of representative texts, from the Puritan dissenters through the Revolution, to the central writers of the antebellum period.

**English 90mt. The 1880's, An American Renaissance: Methods Toward a Critical Literary History**

Catalog Number: 0537

*Richard Charles Adams*

*Half course (fall term). Th., 1–3.*

The burgeoning of American literature during this decade will be examined by juxtaposing a few



crucial careers such as James' and Howell's with important works by such of their contemporaries as George Washington Cable, Henry Adams, and Sarah Orne Jewett. Also to be discussed: the challenge of regionalism to cosmopolitanism; the tension between romance and realism; the magazine trade; and the emergence of a critical tradition.

**\*English 90mw. Why Poetry Matters When the Century Ends: Wordsworth, Hardy, Heaney**

Catalog Number: 2926

*Elaine Scarry*

*Half course (fall term). M., 1–3.*

Dante wrote *New Life* in the 1290's; Chaucer wrote the *Canterbury Tales* in the 1390's; Shakespeare (as well as Spenser and Donne) wrote extensively in the 1590's. This seminar will draw materials from the final decade of a range of centuries but will concentrate on Wordsworth (1790's), Hardy (novels and poems of the 1890's), and Heaney (1990's).

**\*English 90nl. 18th-Century Narrative and the Law**

Catalog Number: 6031

*Lynn Mary Festa*

*Half course (fall term). Tu., 1–3.*

Law as both narrative principle and recurrent theme in 18th-century fiction. Readings drawn from Defoe, Gay, Fielding, Smollett, Burney. Areas of inquiry include: patriarchy, family, and the law; legal and novelistic ideas of the self; crime and the normative; punishment and correction in relation to narrative form.

**\*English 90op. Poems of the Pearl Manuscript**

Catalog Number: 0373

*Rebecca L. Krug*

*Half course (fall term). Tu., 1–3.*

This course considers the four alliterative poems of the *Pearl* manuscript, *Pearl*, *Cleanness*, *Patience*, and *Sir Gawain and the Green Knight*. Discussion will focus on the relationship between aesthetic concerns and moral/religious claims. All reading is in Middle English.

**[English 90pt. The Prophetic Tradition in America]**

Catalog Number: 9141

*John Stauffer*

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

Examines the literature of prophecy belief in American from the colonial era to the present. Authors include Anne Hutchinson, Joseph Smith, Nat Turner, John Brown, Melville, Charles Brockden Brown, Whitman, Twain, Hal Lindsey

*Note:* Expected to be given in 2000–01.

**\*English 90rp. Radical Poetics**

Catalog Number: 8864

*Oren Jeremy Izenberg*

*Half course (fall term). W., 1–3.*

An intensive study of the texts and contexts of a few 20th-century literary movements or



"scenes" - the Celtic Revival, Objectivism, the San Francisco Renaissance, the New York School, and the "Language" poets - in which poets have aspired both to *be* a social group (whether understood as a local or universal "movement," a publishing collective, a band of friends or lovers) and to *use* poetry to reconstruct social formations in crisis.

**\*English 90rs. Yeats**

Catalog Number: 5853

*Peter Sacks*

*Half course (fall term). W., 3–5.*

Study the poetry of Yeats.

**\*English 90rt. Sylvia Plath and Anne Sexton**

Catalog Number: 6987

*Barbara E. Johnson*

*Half course (spring term). Tu., 2–4.*

The poetry of Plath and Sexton will be read and discussed along with letters, journals, and biographies. Topics to be discussed: What are the relations between an author's life and an author's poetry? How does biography affect criticism? Do we read the work of these poets backwards through their suicides? How do they represent the problems of being a woman, a poet, a daughter, a mother, a wife, and a "case"? How do they think about, and practice, poetic invention? How do they combine pain and wit, and rewrite existing traditions of poetic morbidity, madness, and mania?

**\*English 90sl. Scotland and Scottish Literature**

Catalog Number: 8963

*Ann Wierda Rowland*

*Half course (fall term). W., 2–4.*

Scottish literature and the place of Scotland in the British literary imagination of the 18th and 19th centuries. Attention to the myth of the Highlands, the Ossian controversy, Scottish second-sight, the romance of the Jacobite rebellion, and the role of literature in the production of national identity. Readings in poetry, travel writing, national tales, historical novels, and intellectual prose by writers such as Defoe, Macpherson, Smith, Smollett, Johnson, Burns, Scott, Ferrier and Hogg.

**\*English 90ve. Models of Value in 18th-Century Fiction**

Catalog Number: 3216

*Lynn Mary Festa*

*Half course (spring term). Tu., 1–3.*

A study of theories of human, aesthetic, and market value in 18th-century literature, focusing on how humans and literary works are distinguished from other objects of exchange. Readings drawn from Pope, Defoe, Richardson, Sterne, Burney, as well as Adam Smith, Marx, Benjamin, Zizek.

**\*English 90wg. Wordsworth and George Eliot**

Catalog Number: 3955

*Ann Wierda Rowland*



*Half course (fall term). Th., 3–5.*

Close study of the major works of William Wordsworth and George Eliot. Attention to their understandings of art and community, their representations of Englishness, and their use of history and landscape. Readings include *Lyrical Ballads*, *The Prelude*, *Middlemarch*, and *Daniel Deronda*.

**\*English 90wp (formerly \*English 169). Black Playwrights of the World**

Catalog Number: 7257

*Adrienne Kennedy*

*Half course (fall term). M., 1–3.*

A survey of the drama of the most significant 20th-century Black authors from two hemispheres, with a focus on texts of plays and their cultural contexts. Readings include works by Matura, Shange, Baraka, Soyinka, Walcott, Hughes, Césaire, Hansberry, Fuller, and other playwrights.

**[English 90zb. “Themes” in the Study of Literature]**

Catalog Number: 2789

*Werner Sollors*

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

Though not always openly acknowledged, thematic approaches to literature have been important since the beginning of literary study. How can a "theme" be defined: how can it be "found" in a literary text? What happens if the same text is read for different themes? What is a motif? *Stoff*? Thematology and thematics? Can we absolutely determine what a work of art is and is not "about"? Explorations in practical criticism and in literary theory.

*Note:* Expected to be given in 2000–01.

***Tutorials, for Undergraduates Only***

**\*English 91r. Supervised Reading and Research**

Catalog Number: 1464

*Joseph C. Harris 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. Offered only by professors, assistant and associate professors, and senior lecturers. May not be taken more than twice and only once for concentration.

**\*English 97. Tutorial — Sophomore Year**

Catalog Number: 0280

*Joseph C. Harris 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. Topics to include the nature and purpose of literary study, and critical approaches such as formalism, structuralism, deconstruction, psychoanalytic criticism, Marxism, and feminism. Required of concentrators in the sophomore year.



**\*English 98r. Tutorial — Junior Year**

Catalog Number: 3831

*Joseph C. Harris and members of the Department*

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

Tutorial supervision in the study of English and American literature.

*Note:* Open to honors concentrators.

*Prerequisite:* Grade of B or better in English 10, an overall concentration average of B or better, and the recommendation of the sophomore tutor.

**\*English 99hf (formerly \*English 99r). Tutorial — Senior Year**

Catalog Number: 5279

*Joseph C. Harris and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

Tutorial supervision of an independent scholarly or critical subject.

*Note:* Two semesters required of honors seniors. To enroll, students must submit for approval a Thesis Proposal form, available at the Undergraduate Office, 12 Quincy Street. A student who does not complete a thesis but wishes to receive credit for one term of English 99r must submit a paper or other substantial work before the end of that term's reading period.

*Prerequisite:* Satisfactory completion of one semester of English 98r and completion of an undergraduate seminar (90-level) taken junior year, and the Honor's Committee 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 (fall term). Tu., Th., at 10. EXAM GROUP: 12*

A survey of the changes in English phonology, morphology, syntax, spelling, and vocabulary, from the earliest times to the present. Along the way we also 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 102c. Anglo-Saxon Language and Culture: The Millennium**

Catalog Number: 1268

*Daniel G. Donoghue*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

How did the Anglo-Saxons view the advent of the year 1000? How are their responses to it (or indifference) reflected in their literature? The semester will begin with an introduction to the basics of Old English grammar and will later expand to include more thematically driven topics. All of the selections for translation — chronicles, homilies, poems — will have some bearing on the millennium. Comparisons with current anxieties about the year 2000 will be aided by a site on the world wide web.



### English 103. Anglo-Saxon Language and Culture: King Alfred

Catalog Number: 0995

*Daniel G. Donoghue*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

In 9th-century England, King Alfred instituted an unprecedented program of writing in Old English, in effect creating a literary tradition where none existed before. This course will introduce students to Alfred's life and times, along with readings from the *Anglo-Saxon Chronicle*, Bede's *History of the English People*, riddles, *The Seafarer*, and other Old English lyrics.

### English 117. Medieval Drama: History and Performance

Catalog Number: 2875

*Rebecca L. Krug*

*Half course (fall term). Tu., Th., at 3. EXAM GROUP: 17*

Half lecture, half workshop, this course will approach medieval drama in terms of performance. We will spend the first part of the semester familiarizing ourselves with Middle English Drama and its performance history; the second half of the course will involve enactments of scenes from cycle and morality plays and will culminate in an informal production of a morality play. Texts will include *Mankind*, *Castle of Perseverance*, *Everyman*, and several plays from the York, Towneley, Chester and Coventry cycles.

### English 130. 17th-Century Poetry and Prose

Catalog Number: 4789

*Barbara K. Lewalski*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

Primary focus on the major poets Donne, Jonson, Herbert and Marvell, with attention also to other writers, men and women, the genres they practiced and their cultural milieu.

### **[English 131. Milton]**

Catalog Number: 8005

*Barbara K. Lewalski*

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

A comprehensive study of Milton's works and their milieu. Included are his lyric poems and masque, his polemic tracts on marriage and divorce, a free press, and republican government written during the Puritan Revolution, his epics, and the tragedy *Samson Agonistes*. *Paradise Lost* will receive extended treatment.

*Note:* Expected to be given in 2000–01.

### English 138b. Spenser and the Age of Elizabeth

Catalog Number: 0489

*Susanne Lindgren Wofford (University of Wisconsin-Madison)*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

A study of the cultural poetics and politics of Elizabethan literature, with a focus on Spenser and on the writings of other major Elizabethans such as Sidney, Raleigh, Nashe and selected lyric poets. Topics for study will include Elizabeth I's court culture (as evidenced in her speeches, her portraits and the great courtly entertainments); literary figuration, form and genre; and questions



of whether the presence of a female ruler may have refigured English gender codes and expectations. Some short readings also in social history, theory of allegory, and new historicist and feminist work on the Elizabethan period.

**[English 140b (formerly \*English 90gt). The Age of Johnson]**

Catalog Number: 6901

*Leo Damrosch*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

English literature at a time when imaginative nonfiction threatened to displace traditional “literary” forms. Emphasis on the essays of Johnson and Hume, the diary and biography of Boswell, the history of Gibbon, the political writings of Burke, and the poems of Gray, Burns, and Blake.

*Note:* Expected to be given in 2000–01.

**English 147n. Women and the Novel to Jane Austen**

Catalog Number: 1659

*Lynn Mary Festa*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

A study of the early novel, focusing on the roles of women -- as heroines, readers, and writers -- in the formation of the genre. Novels by Behn, Haywood, Burney, Edgeworth and Austen. Additional background readings on the legal, medical, intellectual and moral status of women in the long 18th century.

**English 150. British Romantic Poetry**

Catalog Number: 5274

*Ann Wierda Rowland*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

Emphasis on the poetry with attention to the prose of the period as well. Authors include Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Scott.

**English 151. The British Novel from Austen to Conrad in its European Context**

Catalog Number: 8396

*Philip J. Fisher*

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

Rise and Fall of the Romantic self. Austen, *Sense and Sensibility*; Goethe, *Sorrows of Young Werther*; Scott, *Old Mortality*; Bronte, *Wuthering Heights*, *Jane Eyre*; Stevenson, *Dr. Jekyll and Mr. Hyde*; Conrad, *Lord Jim*; The novel of society. Flaubert, *Madame Bovary*; Eliot, *Middlemarch*; Dickens, *Oliver Twist*; Dostoevsky, *The Double*; Zola, *L'Assommoir*; Hardy, *Jude the Obscure*.

**English 163. Postmodern Drama**

Catalog Number: 7652

*Robert Brustein*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

A study of the major plays of the makers of the postmodern style—Pirandello, Brecht, O’Neill,



Beckett, Ionesco, Genet, Shepard, and Mamet—and their impact on the direction of contemporary theatre.

**English 165. The British Novel of the 20th Century: Joyce to Naipaul**

Catalog Number: 1827

*Philip J. Fisher*

*Half course (fall term). M., W., at 1. EXAM GROUP: 6*

Centering on the works of Joyce and the experience of Modernism. Novels include Joyce, *Dubliners*, *Portrait of the Artist*, *Ulysses*; Forster, *Longest Journey*; Lawrence, *The Rainbow*; Woolf, *Mrs. Dalloway*, *To The Lighthouse*; Conrad, *Shadow Line*; Henry Green, *Loving*; Beckett, *Molloy*; Naipaul; *House for Mr. Biwasas*.

*Note:* Graduate section offered.

**[English 166. The Novel (and other Narratives) since World War II ]**

Catalog Number: 1874

*Robert Kiely*

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

A survey of postmodern experiments in several kinds of narrative, including works by Borges, Beckett, Primo Levi, Nabokov, Toni Morrison, Maxine Hong Kingston, García Marquéz, Paul Monette, Pynchon, and Leslie Marmon Silko.

*Note:* Expected to be given in 2000–01.

**[English 167b. Twentieth Century British Fiction]**

Catalog Number: 0940

*Jesse E. Matz*

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

The British Novel from E.M. Forster to the present, including works by James Joyce, Virginia Woolf, George Orwell, Jean Rhys, Henry Green, Muriel Spark, Iris Murdoch, Anthony Burgess, A.S. Byatt and Kazuo Ishiguro.

*Note:* Expected to be given in 2000–01.

**English 167p. Introduction to Postcolonial Literature**

Catalog Number: 2511

*Sharmila Sen*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

A survey course introducing some of the key concerns, quarrels, and texts in postcolonial studies. Readings include such authors as Conrad, Achebe, Ngugi, Salih, Mahfouz, Oyono, Fanon, Lamming, Harris, Marquez, Kureishi, Rushdie, and Ghosh.

**English 170 (formerly \*English 90jk). Puritanism in America**

Catalog Number: 8166

*Sacvan Bercovitch*

*Half course (spring term). M., W., at 1. EXAM GROUP: 6*

Literature and culture of 17th-century New England. A study of the aesthetic, religious, intellectual and historical dimensions of American Puritan writings, with some attention to the “Puritan legacy” to the national culture.



**English 171x. The American Poetic Experience: From the Beginnings through the Late 19th Century**

Catalog Number: 2373

*Elisa New*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

When in 1844, Ralph Waldo Emerson noted in “The Poet” that “adequate expression is rare”, his tact (but also perhaps his own high poetic aspirations), prevented him rehearsing what William Ellery Channing, Edgar Allen Poe and others had made a refrain: the grievous lack of a “national literature” adequate to the American subject. And yet, though its epics were tedious and few, by 1844 American verse had already entered its vigorous second century, with the most original, and eventually most influential poets, of the pre-modern period, embarked on or gathering materials for their greatest work.

**English 172c. 19th-Century American Novel**

Catalog Number: 5256

*Richard Charles Adams*

*Half course (spring term). M., W., at 1. EXAM GROUP: 6*

The short fiction and principal novels of five major figures in 19th-century American literature: Hawthorne, Melville, Twain, James and Howells. Readings will be accompanied by lectures in the historical context that informed the transition from romanticism to realism and modernism in turn. Texts include *House of the Seven Gables*, *Moby Dick*, *Portrait of a Lady*, and *Connecticut Yankee*.

**English 173j. Contemporary American Poetry and Poetics**

Catalog Number: 7933

*Oren Jeremy Izenberg*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Readings in American poetry after World War II. Topics for discussion will include: tradition and innovation, technique and improvisation, the lyric "I" and its alternatives. Authors include Lowell, Ginsberg, Bishop, Oppen, Plath, O'Hara, Creeley, Ashbery, Bidart, A. Grossman, M. Palmer, S. Howe, and others.

**English 175e. Modern American Poetry: Five Representative Figures (Eliot, Frost, Stevens, Williams, Moore)**

Catalog Number: 4093

*Helen Vendler*

*Half course (fall term). M., W., at 1. EXAM GROUP: 6*

Modernism as it is exemplified (and restricted) by these figures. Influences, native and foreign; nostalgia and prophecy versus the present and the literal; “bric-a-brac” vs. “subjects”; prosodic stands (free, metered and syllabic verse); poetry and the visual arts; ways of being American as an artist.

**English 178x. The American Novel from Dreiser to the end of the Century**

Catalog Number: 2168

*Philip J. Fisher*

*Half course (spring term). M., W., at 12. EXAM GROUP: 5*



A survey of the novel in 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*; Cather, *A Lost Lady*; 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*; stories by Updike, Carver, Gaitskill, Moore. Roth, *American Pastoral*.

*Note:* Graduate section offered.

### **English 179k. American Autobiography**

Catalog Number: 4938

*John Stauffer*

*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16*

A study of autobiography in America from the Age of Revolution to the near-present. Explores aesthetic and historical dimensions of the genre; self-fashioning and refashioning in terms of religious, racial, class, and gendered issues; and the relationship between individual and national identities. Authors include Benjamin Franklin, John Woolman, Olaudah Equiano, Walt Whitman, Frederick Douglass, Harriet Jacobs, Henry Adams, Jane Addams, Gertrude Stein, Malcolm X, and Zora Neale Herston.

### **[English 182. American Poetry since 1945]**

Catalog Number: 1482

*Helen Vendler*

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

A study of several contemporary poets: Bishop, Hughes, Merrill, Ginsberg, Berryman, Lowell, Plath, Ammons, Ashbery, Graham, and Dove.

*Note:* Expected to be given in 2000–01.

### **English 184. Fundamentals of Lyric Poetry**

Catalog Number: 8147

*Peter Sacks*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

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 187c. History in Chicano Literature**

Catalog Number: 6593

*Juan Bruce-Novoa (University of California-Irvine)*

*Half course (fall term). M., W., at 1. EXAM GROUP: 6*

As an ethnic project, Chicano literature proposes an alternate version of U.S. history. However, far from there being one master text of Chicano history, each author practices historiography according to different models, selecting and utilizing the past to fit present needs. The result is the panorama of possible histories available to readers that makes group identity problematic at best. Readings from poetry, fiction, and history texts.



### English 188. English-Language African Literature

Catalog Number: 0307

*Biodun Jeyifo (Cornell University)*

*Half course (fall term). Tu., Th., at 9. EXAM GROUP: 11*

This course will survey Anglophone African literature through the drama, poetry, fiction and essays of some of the continent's major writers. It will be organized around the following issues: "literariness" in written and oral modes; canonicity in its local and international dimensions; emerging regional and national traditions of African literature; common and recurrent sociopolitical themes; formal experiments with language and genre(s). Writers studied will include Achebe, Soyinka, Aidoo, Okot p'Bitek, Fugard, Bessie Head, Ngugi and Gordimer, plus a sample of African writing in French, Arabic, and other languages in English translation.

### English 188a. Asian American Literary Tradition

Catalog Number: 7768

*Yunte Huang*

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

A survey of Asian American literature. Closely reading canonical texts while investigating the formation of the canon itself. Readings include Sui Sin Far, Lin Yutang, Maxine Hong Kingston, Theresa Cha, Jessica Hagedorn, Lois-Ann Yamanaka, John Yau, and Bharati Mukherjee.

### **[English 190. Major Critical Approaches]**

Catalog Number: 0283

*James Engell*

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

Major critical approaches from Aristotle's *Poetics* to recent theories; efforts to analyze and define the functions of literature; social, ethical, historical, and aesthetic issues; classical heritage, Romantic theory, modernism; poststructuralism, including deconstruction and cultural critiques.

*Note:* Expected to be given in 2000–01. Graduate section offered.

### English 190x. Philosophy and Literature: The Problem of Consent

Catalog Number: 0561

*Elaine Scarry*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

"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 193d. Deconstruction and Psychoanalysis

Catalog Number: 8786

*Barbara E. Johnson*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*



Two of the most powerful thinkers in recent history, Jacques Lacan and Jacques Derrida, went head to head over an improbable object: Poe's "Purloined Letter." What did Poe's story have to do with the relation between philosophy and psychoanalysis? And why was that encounter so fruitful for the study of literature? Starting with "The Purloined Poe", we will read texts by Descartes, Freud, Irigaray, Felman, Fanon, Woolf, and Spivak along with more of Lacan and Derrida to analyze the theories of signification, female sexuality, blindness, and the politics of reading, that have been fundamental to literary studies.

**[English 199. Persons and Things]**

Catalog Number: 6195

*Barbara E. Johnson*

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

A literary, psychoanalytic, legal, and philosophical analysis of the relations between persons and things. Topics include the legal definition of "person", Marx and Freud on fetishism, structures of personification, reification, and anthromorphism, poetry and sculpture, object relations, artificial life, and the Pygmalion complex. Texts by Heidegger, Kleist, Hawthorne, Hardy, James, Petry, Baudelaire, Plath, Winnicott, and selected films.

*Note:* Expected to be given in 2000–01.

***Other courses taught by English department faculty***

**[\\*Comparative Literature 206 \(formerly Comparative Literature 106\). Allegory: Seminar](#)**

**[\\*Comparative Literature 285. Comparative Romantic Theory: Seminar](#)**

**[Literature and Arts A-20. Classics in Christian Literature](#)**

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

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

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

***Primarily for Graduates***

**[\\*English 200 \(formerly \\*English 90ja\). The Poetry of Walt Whitman](#)**

Catalog Number: 5586

*Helen Vendler*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

A study of the complete poetry and selected prose.

**[\\*English 200b. Beowulf](#)**

Catalog Number: 6503

*Daniel G. Donoghue*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A careful reading of *Beowulf* in Old English. In addition to in-class translation, the course will explore sources, the question of date and authorship, the oral traditional background, poetics, and other topics of current interest.

*Prerequisite:* One semester of Old English or the equivalent.



**\*English 212. Alliterative Poetry in Middle English**

Catalog Number: 9934

*Derek A. Pearsall*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

A study, in historical and literary context, of the 14th-century poems of the non-Chaucerian tradition, including *Sir Gawain and the Green Knight*, *Piers Plowman*, *Pearl*, and the *Morte Arthure*.

**\*English 214. Spenser and the Fictional Narratives of the Renaissance**

Catalog Number: 8171

*Susanne Lindgren Wofford (University of Wisconsin-Madison)*

*Half course (fall term). Tu., 4–6. EXAM GROUP: 18*

A study of prose fiction and fictional poetic narrative in the 16th and, more briefly, the 17th centuries. Readings from Apuleius, More, Gascoigne, Sidney, Deloney, Nashe, Greene; some attention to the novella in English story collections (and to representative continental novellas); a coda on Margaret Cavendish and Aphra Behn.

**[English 220s. Shakespeare's Poetry]**

Catalog Number: 7959

*Helen Vendler*

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

Topics: The song-within-a-play; Shakespearean narrative verse, comic and tragic; sonnets in the plays; sonnets in a sequence; sonnets standing alone. Eros as dissonance; the aesthetics of the eye; the deceptiveness of representation; dilation and delay; antithetical models of life. Prosody of the songs, sonnets, and narratives. Shakespearean figuration.

*Note:* Expected to be given in 2000–01.

**\*English 224h. The Hamlet Complex**

Catalog Number: 5489

*Marjorie Garber*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Hamlet is the most canonical work by English literature's most canonical writer. What is it about this play that has made it the focus of so much critical and cultural attention? The seminar will consider readings of *Hamlet* (and Hamlet) from Freud to feminism, from humanism to postculturalism and deconstruction, together with selected films, dramatic adaptations and related poetry and fiction, in an attempt to pluck out the heart of the play's mystery.

**\*English 228y. Milton and His Contemporaries: Literature and Politics in the Era of Revolution (1629–1674): Seminar**

Catalog Number: 1277

*Barbara K. Lewalski*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Milton's works, poetry and prose, examined in relation to various texts—literary, subliterate, political—which refract the experience and culture of the revolutionary era in England.

Contemporary texts include the poetry of Vaughan, Herrick, the Cavaliers, and Marvell, as well as histories, sermons, political tracts, letters, and biography.



**[\*English 232z. Literary Kinds and Cultural Forces, 1603–1640: Seminar]**

Catalog Number: 5484

*Barbara K. Lewalski*

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

With primary focus on Donne, Jonson, Herbert and Mary Wroth, and attention to other male and female writers in a wide range of literary and popular genres, this seminar will examine how and why these works and kinds emerge within certain important sites of cultural production: the court, the church, the city of London, the landed estate, the household, patronage circles, coteries. A central issue is, how such genres and texts are affected by, and how they affect, cultural norms and institutions in Jacobean and Caroline England.

*Note:* Expected to be given in 2000–01.

**\*English 240. Poetry, Politics, and Prophecy: Graduate Seminar**

Catalog Number: 6188

*James Engell*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Key texts and authors during the time when English poetry and politics were most closely and publicly linked. Party politics, cultural politics, and the connection of the two. Political satire. Sexual politics and women writers. Religion and the prophetic theme. Includes some prose. Dryden, Pope, Montagu, Swift, Johnson, Burke, Wollstonecraft, Blake, and others.

*Note:* Open to qualified undergraduates.

**\*English 252. The Representation of Labor in the 19th-Century Novel**

Catalog Number: 4284

*Elaine Scarry*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

How far narrative can accommodate and express the nature of human labor is explored in a study of three 19th-century British writers, Dickens, Eliot, and Hardy, as well as in novels and short stories by Turgenev, Zola, Tolstoy, Stowe, and Melville. Background readings on the social and philosophic theory of work.

**\*English 269h. Hawthorne, Dickinson and Henry James**

Catalog Number: 0742

*Elisa New*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

This course will concern itself with some definitions and implications of “experience” in the work of three major authors — Hawthorne, Dickinson and Henry James. Texts will include Hawthorne’s major tales, *The Blithedale Romance*, several Dickinson fascicles, and *The Portrait of a Lady* and *The Spoils of Poynton*.

**\*English 276. Space, Place and Imagination in American Literature**

Catalog Number: 5953

*Lawrence Buell*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Major works from Thoreau and Whitman to W.C. Williams and Leslie Silko exemplifying



interwoven traditions of "pastoral" and "urban" imagination, with reference to phenomenology of place, social space discourse, landscape and gender studies, urban and ecocritical theory.

**\*English 276x. African-American Literary Tradition**

Catalog Number: 3536

*Henry Louis Gates, Jr.*

*Half course (fall term). M., 12–2. EXAM GROUP: 5, 6*

Explores the emergence and formal development of the Afro-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, as is the very idea of “tradition” itself. Authors include Phyllis Wheatley, Frederick Douglass, Harriet Jacobs, Booker T. Washington, Ralph Ellison, Toni Morrison, Alice Walker, Gloria Naylor, Amiri Baraka, Gwendolyn Brooks, and others.

**English 277xr. The Fourth Longfellow Institute Seminar: Literatures of the United States**

Catalog Number: 7685

*Marc Shell*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Multilingual literature of what is now the United States. Special focus on the historiographic and critical treatment of non-Anglophone texts, on general theoretical problems of an ongoing multilingual American tradition, and on the recuperation and presentation of texts. Original source materials in Spanish, French, Portuguese, Welsh, Norwegian, German, Swedish, Yiddish, Russian, Chinese, Arabic, and other non-English texts will be provided in bilingual versions. Some attention to wampum and drum language. Visiting scholars will attend several sessions.

**\*English 289. Postmodernism: Fiction and Theories**

Catalog Number: 2667

*Robert Kiely*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Readings from Beckett and Borges to Pynchon and DeLillo in conjunction with selections from Foucault, Derrida, Lyotard, Jameson and others.

**[English 292m. Modernism: Graduate Seminar]**

Catalog Number: 5177

*Jesse E. Matz*

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

The theory and practice of Modernism from Baudelaire to Nabokov, focusing on Modernism’s early twentieth-century critical manifestos and the most recent efforts to define modernist culture.

*Note:* Expected to be given in 2000–01.

**[\*English 294h. Literary History and Cultural Memory: Graduate Seminar]**

Catalog Number: 8598

*Stephen J. Greenblatt*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Graduate seminar on theories of memory and history (from Aristotle to Vico to Hulburachs,



Benjamin and Derrida) and on the place of literature in such theories.

*Note:* Expected to be given in 2000–01.

### **English 295. Renaissance Materialism and Carnality: Graduate Seminar**

Catalog Number: 9239

*Stephen J. Greenblatt*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Some Renaissance artists and intellectuals attempted to rethink the world as centered not on the spirit but on the flesh - a risky effort to posit a world that is only matter, no longer an envelope for an immaterial soul. We begin with the reception of Democritus, Epicurus, and Lucretius (by such figures as Montaigne, Raleigh, Bacon, Burton, Hobbes), then turn to a related but distinct current of thought: fascination with the impulses, experiences, and fate of the body, carnality. The focus will be English (Hero and Leander, Venus and Adonis, King Lear, Faerie Queene [Book II]; Donne, Herrick, and Crashaw), but we will glance at Continental texts such as Rojas' *La Celestina* and Ferrand's *Treatise on Lovesickness*.

### **\*English 296. Descriptive and Analytical Bibliography: Seminar**

Catalog Number: 7102

*Roger E. Stoddard*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

By close examination of early printed books and manuscripts from Houghton Library collections, students learn how to identify, interpret, and describe physical bibliographical evidence as it is employed in historical research and textual studies.

### **\*English 297L. U.S. Latino Autobiography**

Catalog Number: 3496

*Juan Bruce-Novoa (University of California-Irvine)*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

This course has a dual focus: the genre of autobiography per se and the study of major examples of the genre as practiced by U.S. writers of Latino extraction. Readings will draw from theoretical essays on autobiography and both autobiographies and autobiographical novels. Among authors discussed are Cabeza de Vaca, John Rechy, Edward Rivera, Judith Ortiz Coffer, Anthony Quinn, Julia Alvarez, and Oscar Hijuelos.

### ***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, Rebecca L. Krug 2168 (on leave spring term), and Derek A. Pearsall 1093 (on leave spring term)*

*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 Ph.D. and who intend to work on a medieval subject.



**\*English 302hf. Renaissance: Doctoral Conference**

Catalog Number: 2814

*Marjorie Garber 7264, Barbara K. Lewalski 7450, Werner Sollors 7424 (on leave 1999-00) and members of the Department*

*Half course (throughout the year). Alternate W., at 4:15.*

The Conference focuses upon theses in progress and other research topics of mutual interest. Membership limited to faculty members teaching or conducting research in Renaissance literary studies and to graduate students working in this field who have completed required course work for the Master's degree. Enrollment is open to all such students, and is required of those who have been admitted to candidacy for the Ph.D. and who intend to work on Renaissance topics.

**\*English 304hf. The Extended 18th Century: Doctoral Conference**

Catalog Number: 6110

*Leo Damrosch 2200, James Engell 8076, 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. 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 Ph.D. 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 and Robert Kiely 1621*

The Conference focuses on theses in progress and other research topics of mutual concern. Membership 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 Ph.D. and who intend to work in the field.

**\*English 306hf. 19th- and 20th-Century British Literature: Doctoral Conference**

Catalog Number: 5268

*Robert Kiely 1621 and Jesse E. Matz 2169 (on leave 1999-00)*

*Half course (throughout the year). Hours to be arranged.*

**\*English 308hf. Drama: Doctoral Conference**

Catalog Number: 6909

*Marjorie Garber 7264 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 (formerly \*English 310fhr). American Literature and Culture: Doctoral Conference**

Catalog Number: 6235

*Sacvan Bercovitch 7638 and Lawrence Buell 2655*

*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 311hf. The Teaching of Literature: Doctoral Conference**

Catalog Number: 8208

*Marjorie Garber 7264 and Rebecca L. Krug 2168 (on leave spring term)*

*Half course (fall term). W., 4–6.*

*Note:* Open to all graduate students and required of all third-year graduate students.

**\*English 314hf. 20th-Century Literature and Cultural Theory: Doctoral Conference**

Catalog Number: 1410

*Barbara E. Johnson 7626*

*Half course (throughout the year). Hours to be arranged.*

This colloquium is open to all graduate students and faculty working in 20th-century literature and cultural theory. Topics include African-American literature, contemporary literature, drama, film and/or performance, modernism, literary and cultural theory, postcolonial studies, and postmodernism. Work-in-progress, as well as dissertation chapters and potential articles and conference papers, will be encouraged.

**\*English 397. Directed Study**

Catalog Number: 6588

*Members of the Department*

**\*English 398. Direction of Doctoral Dissertations**

Catalog Number: 5968

*Richard Charles Adams 1665, Sacvan Bercovitch 7638, Robert Brustein 7042, Lawrence Buell 2655, Leo Damrosch 2200, Daniel G. Donoghue 1469, James Engell 8076, Philip J. Fisher 1470, Marjorie Garber 7264, Henry Louis Gates, Jr. 2899, Stephen J. Greenblatt 3436 (on leave fall term), Joseph C. Harris 1089, Alan Heimert 1631 (on leave 1999-00), Barbara E. Johnson 7626, Walter Kaiser 2561, Robert Kiely 1621, Barbara K. Lewalski 7450, Richard C. Marius 6065, Derek A. Pearsall 1093 (on leave spring term), Elaine Scarry 2206, Marc Shell 3176, Michael Shinagel 7659, Werner Sollors 7424 (on leave 1999-00), and Helen Vendler 7226*

*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*

*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, Alexander Agassiz Professor of Biological Oceanography in the Museum of Comparative Zoology (*Chair, Head Tutor*)

William C. Clark, Sidney Harman Professor of International Science, Public Policy, and Human Development (*Kennedy School*)

Göran Ekström, Professor of Geology and Geophysics

Jerry R. Green, John Leverett Professor in the University and the David A. Wells Professor of Political Economy

John P. Holdren, Teresa and John Heinz Professor of Environmental Policy (*Kennedy School*)

Sheila S. Jasanoff, Professor of Science and Public Policy (*Kennedy School, Public Health*)

Michael B. McElroy, Gilbert Butler Professor of Environmental Studies

Paul Pierson, Professor of Government (*on leave fall term*)

Daniel P. Schrag, John L. Loeb Associate Professor of the Natural Sciences

Robert N. Stavins, Professor of Public Policy (*Kennedy School*)

### *Other Faculty Offering Instruction in Environmental Science and Public Policy*

Stephen T. Curwood, Visiting Lecturer on Environmental Science and Public Policy

Henry Ehrenreich, Clowes Professor of Science

Paul R. Epstein, Instructor in Medicine (*Medical School*)

Timothy E. Ford, Assistant Professor of Environmental Microbiology (*Public Health*)

Richard T. T. Forman, Professor of Advanced Environmental Studies in the Field of Landscape Ecology (*Design School*)

Matthew Parsons Hare, Lecturer on Environmental Science and Public Policy

James S. Hoyte, Lecturer on Environmental Science and Public Policy

The concentration in Environmental Science and Public Policy is administered by the Department of Earth and Planetary Sciences. It is overseen by a Standing Committee functioning as a Board of Tutors including representatives from other 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 78. Environmental Politics**

Catalog Number: 3613

*Sheila S. Jasanoff (Kennedy School, Public Health)*

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

An introduction to the history, organization, goals and ideals of environmental protection in America. Course examines the political implications of shifts in emphasis from nature protection to pollution control to sustainability over the 20th century. Of central interest is the relationship between scientific knowledge, uncertainty, and legal or political action. Theoretical approaches from law, political science, and science studies are combined with investigations of major episodes and controversies in environmental policymaking.

***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 90a. Public Communication and the Science and Politics of Global Climate Change**

Catalog Number: 2189

*Michael B. McElroy and Stephen T. Curwood*

*Half course (fall term). Tu., 1:30–4.*

The Kyoto Protocol of 1997 set binding limits on greenhouse gas emissions, though many nations, including the United States, have yet to ratify this accord. Meanwhile the scientific evidence of human-induced climate change continues to emerge amid some controversy, with indications that global warming and other potentially catastrophic climate changes may already be underway. What is this scientific evidence, and how is it being communicated to the public and policy makers? How should the United States respond to international efforts to mitigate climate change? Led by a scientist and a journalist, the seminar will explore scientific, diplomatic and public communication methods driving the global climate change debate.

**[\*Environmental Science and Public Policy 90b. Preparing for Natural Disasters]**

Catalog Number: 3253

*Göran Ekström*

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

Examines the interplay between science, the individual, and society in responding to the threats and effects of earthquakes, floods, hurricanes, and other disasters. Aspects of risk assessment and risk perception, in particular in relation to infrequent and devastating events. The reliance on the well-informed individual to exhibit risk-averse behavior is compared with the role of government laws and regulations. Investigation of the question of who eventually pays for disaster relief and



reconstruction; discussion of insurance and alternative solutions.

*Note:* Expected to be given in 2000–01.

**\*Environmental Science and Public Policy 90c. Ecology and Land Use Planning**

Catalog Number: 3792

*Richard T. T. Forman (Design School)*

*Half course (spring term). Tu., 2–5, with intensive field study, including a required one week field study.*

Investigation of how local and regional human activities such as housing, agriculture, water supply, and natural resource use can be arranged on the landscape so that environmental processes are not disrupted and ecosystems are maintained for very long times. The focus is on the active use of applying spatial and ecological principles to land-use planning with the intention of regional biodiversity conservation, maintenance of water quality, and dealing with 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 (spring term). W., 2:30–4:30.*

Examines the influences of race, socioeconomic status, and interest group politics in the formulation and implementation of U.S. 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 of Government as ENR-205.

**\*Environmental Science and Public Policy 90ehf. Conservation Biology**

Catalog Number: 6879

*Matthew Parsons Hare*

*Half course (throughout the year). Tu., 6:30–8:30 p.m.*

Conservation biology strives to describe, understand and preserve biodiversity by applying ecological and evolutionary theory within the contexts of resource management, economics, sociology and political science. We will explore the moral and scientific motivations for preserving biodiversity and practice decision making under conflicting interests. Case studies will focus our examination of major contemporary issues in conservation biology such as endangered species protection and reintroduction, habitat fragmentation, over-harvesting of biological resources, exotic species invasions and sustainable development. Several field trips in New England will involve the class in conservation research. A strong emphasis will be put on individual research projects.

*Note:* Must be taken concurrently with Biology 95hfg, as a combined full-year course.

*Prerequisite:* Biological Sciences 2, or Biology 19, or permission of instructor.



**\*Environmental Science and Public Policy 90f. Global Change and Human Health**

Catalog Number: 4434

*Paul R. Epstein (Medical School) and James J. McCarthy*

*Half course (spring term). W., 2:30–5.*

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 will explore hypothesized linkages between changes in ecosystems, climate, and the epidemiology of certain infectious diseases.

**\*Environmental Science and Public Policy 90h. Alternative Energy Potential**

Catalog Number: 2284

*Henry Ehrenreich*

*Half course (fall term). W., 1–4.*

Examines alternative energy options such as photovoltaic and wind within the environmental context of conventional fossil and nuclear based sources. Begins with an elementary exposition of needed energy and thermodynamic concepts, which assumes no previous exposure to physics, and a brief historical survey of energy use in relation to economic and social needs. Emphasizes the potential and problems of alternative energy sources through lectures, readings, class presentations and discussions.

**\*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. Signature of the Head Tutor required for enrollment.

***For Undergraduates and Graduates***



### Environmental Science and Public Policy 101. Topics in Environmental Ethics

Catalog Number: 1989

*Timothy E. Ford (Public Health)*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

Our environmental circumstances pose problems of value and choice for each of us and challenge us to reconsider the notion of community in an ever-changing ecosystem. This course invites students to reflect upon these problems by confronting the ethical dimensions of historical and contemporary environmental issues. Drawing upon both Western and non-Western traditions in moral reasoning, it elaborates different approaches to environmental ethics and examines the underlying assumptions of the scientific managerial, economic, aesthetic, religious, judicial, and public policy discourse on the environment.

*Note:* Offered jointly with the Divinity School as 2717.

## European Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on European Studies*

Charles S. Maier, Krupp Foundation Professor of European Studies (*Chair*)

Seyla Benhabib, Professor of Government

Suzanne Berger, Professor of the History of Science (*Massachusetts Institute of Technology*)

David Blackbourn, Coolidge Professor of History (*on leave fall term*)

Grzegorz Ekiert, Professor of Government

Thomas Ertman, Frederick S. Danziger Associate Professor of Government

Laura Frader, Associate in the Center for European Studies

Guido G. Goldman, Director of the Program for the Study of Germany and Europe

Peter A. Hall, Frank G. Thomson Professor of Government

Patrice Higonnet, Robert Walton Goelet Professor of French History

Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor

Richard M. Hunt, Senior Lecturer on Social Studies

Richard Locke, Associate in the Center for European Studies

Andrew Moravcsik, Professor of Government (*on leave fall term*)

Susan Pedersen, Professor of History

Paul Pierson, Professor of Government (*on leave fall term*)

Robert D. Putnam, Stanfield Professor for International Peace

Louise M. Richardson, Associate Professor of Government

George Ross, Associate in the Center for European Studies

Theda Skocpol, Victor S. Thomas Professor of Government and of Sociology

Tony Smith, Associate in the Center for European Studies



Roman Szporluk, Mykhailo Hrushevs'kyi Professor of Ukrainian History and Director of the Ukrainian Research Institute  
Joseph Weiler, Manley Hudson Professor of Law (*Law School*)

The Committee on European Studies includes the faculty and selected associates of the Minda de Gunzburg Center for European Studies. The Center was founded in 1969 with the mission of encouraging research and teaching on modern Europe across departmental lines. It includes three major programs (the Program for the Study of Germany and Europe, the Program for the Study of Modern France, and the Program for East and Central Europe) as well as study groups on specific issues that organize seminars and bring guest speakers. At its Busch Hall building, at 27 Kirkland Street, the Center provides office space for selected doctoral candidates working on European topics along with faculty, post-doctoral fellows and visiting European scholars.

The Center's main objective has been the training of new generations of teachers and scholars concerned with Europe. Through the funding provided to the German and French programs as well as an endowment furnished by the Krupp foundation, the Center awards undergraduate summer research grants and dissertation fellowships for graduate students. Different CES faculty share in turn the teaching of the European Studies seminar, which is usually listed as a course for credit by the Department of Government, and takes up a special topic each year.

Some of the major intellectual themes and research interests currently pursued by faculty and students at the Center include the history and development of the European Union, issues of migration, citizenship, and gender, the organization of business and labor, political parties and the welfare state in the various European societies. National study groups follow developments in individual European countries. Topics in cultural history political economy, and political theory, are featured frequently in Center seminars and discussions. A monthly calendar lists these scheduled events.

The Center has a library located in Busch Hall, which holds basic reference works, selected monographs, journals, and air editions of major European newspapers.

## Expository Writing

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Subcommittee on Expository Writing*

William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education (*Chair*)  
Daniel G. Donoghue, Professor of English and American Literature and Language



Diana L. Eck, Professor of Comparative Religion and Indian Studies  
 Laura G. Fisher, Associate Dean for Academic Planning  
 Patrick K. Ford, Margaret Brooks Robinson Professor of Celtic Languages and Literatures  
 Mary Gaylord, Professor of Romance Languages and Literatures (*on leave 1999-00*)  
 Andrew Gordon, Professor of History  
 Gordon C. Harvey, Senior Preceptor in Expository Writing and Associate Director of Expository Writing (*ex officio*)  
 Dudley R. Herschbach, Frank B. Baird, Jr. Professor of Science  
 Patricia Kain, Head Preceptor in Expository Writing  
 Susan W. Lewis, Director of the Core Program and Director of the Freshman Seminars, General Education, and House Seminars (*ex officio*)  
 Barry C. Mazur, Gerhard Gade University Professor  
 Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature  
 Elizabeth Studley Nathans, Dean of Freshmen (*ex officio*)  
 Michael J. Sandel, Harvard College Professor and Professor of Government  
 Nancy Sommers, Senior Lecturer in Expository Writing and Sosland Director of Expository Writing (*ex officio*)  
 Jeffrey Wolcowitz, Senior Lecturer on Economics and Associate Dean for Undergraduate Education

### ***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.

#### **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.*

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:* A limited enrollment elective. 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. Since writing requires an intellectual occasion and familiarity with some subject, each section focuses on a particular theme or topic, as described in the *Guide to Expository Courses and Registration* (available 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 in Expository Prose]**

Catalog Number: 0674

*Gordon C. Harvey and staff*

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

For all students, upperclass or freshman, who have completed Expository Writing 20 and who wish to continue working towards clear and elegant writing. Readings and weekly discussions consider theories of prose style and illustrate different styles and aspects of style. In a weekly conference, each student works with a tutor on writing exercises and projects.

*Note:* Expected to be given in 2000–01. Graduate students admitted by permission of the 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*)

Margaret Alexiou, George Seferis Professor of Modern Greek Studies and Professor of Comparative Literature (*on leave spring term*)

Patrick K. Ford, Margaret Brooks Robinson Professor of Celtic Languages and Literatures

Deborah D. Foster, Senior Lecturer on Folklore and Mythology (*Head Tutor*)

Joseph C. Harris, Professor of English and Folklore

Michael Herzfeld, Professor of Anthropology (*on leave 1999-00*)

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

Kimberley C. Patton, Assistant Professor in the Comparative and Historical Study of Religion (*Divinity School*)

Mary M. Steedly, Professor of Anthropology (*on leave spring term*)

Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures

Nur Yalman, Professor of Social Anthropology and of Middle Eastern Studies

Jan Ziolkowski, Professor of Medieval Latin and Comparative Literature

#### *Affiliated Members of the Committee on Degrees in Folklore and Mythology*

Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures

Alan Heimert, Powell M. Cabot Professor of American Literature (*on leave 1999-00*)



Yunte Huang, Assistant Professor of English and American Literature and Language  
 Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations  
 Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*) (*on leave 1999-00*)  
 Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages  
 J. Lorand Matory, Professor of Anthropology and of Afro-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  
 Orlando Patterson, John Cowles Professor of Sociology  
 James R. Russell, Mashtots Professor of Armenian Studies (*on leave spring term*)  
 Kay Kaufman Shelemay, Professor of Music (*on leave spring term*)  
 Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of Afro-American Studies (*on leave 1999-00*)  
 Lawrence E. Sullivan, Professor of the History of Religions (*Divinity School*)  
 Laurel Thatcher Ulrich, Professor of History and Director of the Charles Warren Center for Studies in American History  
 Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative Literature (*on leave spring term*)  
 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, this course is available only to concentrators in Folklore and Mythology.

*Note:* To enroll, 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 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 must be obtained. Normally, this course is taken in the second semester 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 must be obtained. Students who wish to drop Folklore and Mythology 99 with credit at midyear must obtain the consent of the Chairman and submit a substantial paper on which a final fall term grade can be based.

## ***Comparative and Methodological***

***For Undergraduates and Graduates***

### **Folklore and Mythology 100. An Introduction to Folklore & Mythology**

Catalog Number: 2201

*Stephen A. Mitchell*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 13, 14*

Surveys the major forms of folklore (e.g. myths, legends, ballads, 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.

### **\*Folklore and Mythology 103. Oral Literature**

Catalog Number: 5039 Enrollment: Limited to 12; as part of tutorial program, preference given to concentrators.

*Deborah D. Foster*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Introduction to oral literature in (some of) its social, historical and cultural contexts. Explores the dimensions of verbal performance by conducting fieldwork and reading transcribed (and sometimes translated) oral texts. Examines issues of orality and literacy, performance, transmission, and interpretation.

*Note:* Required of all concentrators.

### **[\*Folklore and Mythology 104. Theory and Methodology of Folklore and Mythology]**

Catalog Number: 3311 Enrollment: Limited to 12; as part of tutorial program, limited to concentrators.

*Joseph C. Harris*

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

Introduction to the development of folklore and mythology as fields of study, with particular attention to the methodological approaches suited to their areas of enquiry. Surveys the study of folklore and mythology in the 19th and early 20th centuries, but focuses on theoretical contributions to the study of folklore, mythology, and oral literature in recent decades.

*Note:* Expected to be given in 2000–01.

### **[\*Folklore and Mythology 105. Fieldwork and Ethnography in Folklore]**

Catalog Number: 3789 Enrollment: Limited to 12; as part of tutorial program, preference given to concentrators.

*Deborah D. Foster*



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

Interpretation of culture: issues and problems of ethnography. Examines problems of cultural interpretation that arise in the context of fieldwork. Both ethnographic and theoretical readings serve as the material for class discussion and the foundation for experimental ethnographic projects.

*Note:* Expected to be given in 2000–01. Required of all concentrators.

**[Folklore and Mythology 106. Myth, an Introduction]**

Catalog Number: 5619

*Joseph C. Harris*

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

A sampling of the classical problems of and approaches to myth as sacred story, with emphasis on structuralist methods and comparative mythology. Primary material mainly drawn from the Indo-European language area, especially Northern Europe. Some attention to thematic clusters such as “the goddess” and “the sacrificed son.”

*Note:* Expected to be given in 2000–01. Readings in English.

**[Folklore and Mythology 108. Witchcraft]**

Catalog Number: 0340

*Stephen A. Mitchell*

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

Examines witchcraft from cross-cultural, historical, and literary points of view. Although witches and witchcraft are considered in their non-Western settings, the course focuses on events in Europe and America, tracing the development of the relatively mild reaction against ‘demonism’ and ‘wise women’ of the early Middle Ages into the ‘witch craze’ of the 16th and 17th centuries. The portrayal of witches in folklore and literature is also considered.

*Note:* Expected to be given in 2000–01.

**[\*Folklore and Mythology 109. Shamanism]**

Catalog Number: 6540 Enrollment: Limited to 12

*James R. Russell*

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

The shaman is a type of religious practitioner found in many cultures, who undergoes a calling, trauma, and initiatory training; during a ritualized drama, in an ecstatic state, he travels to other worlds, to obtain healing or information; and returns. Topics include: definition; the calling and dismemberment; costumes, dances, instruments, and the arts; poetry and the folk-tale; shamanistic hallucinogens; the question of possession and the politics of the field; otherworld geography; case studies of Siberian cultures, Tibet, Australia, Scythia, Iran, ancient Greece; shamanism and homosexuality; and Santeria and Vodoun.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

**[Anthropology 105. Food and Culture](#)**

**[Anthropology 274. Sovereignty, Ethnicity, and Pluralism](#)**

**[Anthropology 276. New Ethnographies in the Anthropology of Social Experience]**



**[Anthropology 278 (formerly Anthropology 183). The Charisma of Saints, and the Cults of Relics, Amulets, Images, and Shrines]**

**[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]**

**[Medieval Latin 117. Fairy Tales and their Tellers in the Middle Ages](#)**

**[Modern Greek 116. Greek Songs and European Ballads]**

**[Religion 45. Martyrs, Mystics, and Heretics: Alternative Christianities]**

**[Religion 1025. Ritual and the Religious Life: A Thematic Introduction to Religion]**

**[Social Analysis 28. Culture, Illness, and Healing: A Cross-Cultural Comparison of Medicine in Society]**

**[Sociology 60. Race and Ethnic Relations]**

### *Special Field Courses*

#### *For Undergraduates and Graduates*

**[Folklore and Mythology 113. Women Storytellers in Africa]**

Catalog Number: 3257 Enrollment: Limited to 12

*Deborah D. Foster*

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

Examines oral narrative performances by women in Africa. Emphasis will be on Swahili performers from the East African Coast in historical and contemporary contexts, but comparisons to performances by women from other parts of the continent will also be made. Readings are in English and include histories, autobiography, literary stories and transcribed and translated performances of oral narrative.

*Note:* Expected to be given in 2001–02.

**[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance as a Medium of Cultural and Personal Meaning]**

Catalog Number: 7982 Enrollment: Limited to 16

*Deborah D. Foster*

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

This course will examine 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 will attempt to come to understand the emergent meaning of dance performances, from the perspective of both dancer and observer.

*Note:* Expected to be given in 2000–01.

**[Folklore and Mythology 115. The African Oral Tradition](#)**

Catalog Number: 5663

*Deborah D. Foster*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Introduction to African oral narratives, focusing on the nature of orality as it functions prior to and next to literacy in the African context. Examines the way in which symbol and metaphor work in oral art forms; considers methods of analysis of oral narrative, including structuralism,



semiotics, and performance theory; looks at the creative and destructive antics of the trickster figure; and explores the oral residue in early African novels.

**[\\*Folklore and Mythology 191r. Supervised Reading and Research](#)**

Catalog Number: 3255

*Stephen A. Mitchell 7056 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*

[Afro-American Studies 141 (formerly Anthropology 157). Afro-Atlantic Religions]

[Akkadian 144. Akkadian Divination Texts]

[Akkadian 145. Akkadian Incantations and Rituals]

[Ancient Near East 124. Myth and Mythmaking in the Biblical and Ancient Near Eastern World]

[Ancient Near East 127. Prophecy in Ancient Israel]

[Anthropology 184. Ethnicity in the Americas: The Indian Question](#)

[Armenian Studies 100. Armenian Epic]

[Celtic 106. Folklore of Ireland and Scotland](#)

[Celtic 112. Performance and Medieval Celtic Literature](#)

[Celtic 114. Early Irish Historical Tales]

[Celtic 138r. The Mabinogi](#)

[Celtic 150. Celtic Paganism](#)

[Celtic 184. Early Irish Literature]

[Celtic 225a. Introduction to Middle Welsh]

[Celtic 225b. Continuing Middle Welsh]

[Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200–300 BCE]

[\\*German 231. The Cultural Legacy of the Brothers Grimm](#)

[History of Science 212. Science, Magic, and “Traditional” Thought: Seminar]

[Indian Studies 206. Old Indian and Eurasian Creation Myths: Seminar]

[Japanese History 116a. History of Japanese Religions: Conference Course](#)

[Japanese History 116b. History of Japanese Religions: Conference Course](#)

[Literature and Arts A-68. Poets and Poetry in the Celtic Literary Tradition]

[Literature and Arts C-14. The Concept of the Hero in Greek Civilization](#)

[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage](#)

[Literature and Arts C-20. The Hero of Irish Myth and Saga](#)

[Literature and Arts C-22. European Culture in the Latin Middle Ages](#)

[Literature and Arts C-37. The Bible and Its Interpreters]

[Modern Greek 119. Dreams and Literature]

[Music 190r. Proseminar: Topics in World Music](#)

[Music 190rr. Proseminar: Topics in World Music](#)

[Music 194r (formerly Music 190r). Special Topics: Proseminar]

[Music 208r. Ethnomusicology: Seminar](#)

[Religion 1025. Ritual and the Religious Life: A Thematic Introduction to Religion]



[[Scandinavian 103. Scandinavian Mythology and Folklore](#)]  
[[Scandinavian 151. The Viking World](#)]  
[[\\*Scandinavian 200a. Introduction to Old Norse](#)]  
[[Scandinavian 200br. Old Norse Literature: Edda and Saga](#)]  
[Sumerian 141. Sumerian Myths and Epics]  
[Sumerian 145. Sumerian Incantations and Rituals]

## Germanic Languages and Literatures

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Germanic Languages and Literatures*

Eric Rentschler, Professor of German (*Chair*)  
Peter J. Burgard, Professor of German (*Head Tutor, German*)  
Michel Chaouli, Assistant Professor of German and Comparative Literature  
Karl S. Guthke, Kuno Francke Professor of German Art and Culture (*on leave fall term*)  
Beatrice Hanssen, Associate Professor of German  
Annette Johansson-Los, Preceptor in Scandinavian  
Anton Kaes, Visiting Professor of German (*University of California, Berkeley*)  
Charles P. Lutcavage, Senior Preceptor in German (*Coordinator of Language Instruction*)  
Stephen A. Mitchell, Professor of Scandinavian and Folklore (*Head Tutor, Scandinavian*)  
Judith Ryan, Harvard College Professor and the Robert K. and Dale J. Weary Professor of German and Comparative Literature (*Director of Graduate Studies*) (*on leave spring term*)  
Eckehard Simon, Victor S. Thomas Professor of Germanic Languages and Literatures (*on leave 1999-00*)  
Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures (*Director of Graduate Studies, spring term only*)

#### *Other Faculty Offering Instruction in the Department of Germanic Languages and Literatures*

Joseph C. Harris, Professor of English and Folklore  
Jay H. Jasanoff, Diebold Professor of Indo-European Linguistics and Philology  
Peter Nisbet, Senior Lecturer on History of Art and Architecture and Daimler-Benz Curator of the Busch-Reisinger Museum

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.



## **German**

### ***Primarily for Undergraduates***

The placement test in German is offered during Freshman Week and on the last day of the fall and spring reading periods.

#### **German A. Elementary German**

Catalog Number: 4294

*Charles P. Lutcavage and staff*

*Full course (indivisible). M. through Th., sections at 9, 10, 11, or 12. EXAM GROUP: 6*

A thorough introduction to the fundamentals of German designed for students with little or no knowledge of the language. The focus is on all four skills—speaking, listening, reading, and writing—with the goal of acquiring the fluency necessary for basic communication in a German-speaking country. The second half of the course includes reading articles from newspapers as well as short literary pieces by such authors as Goethe, Kafka, and Brecht.

*Note: The first half of this course may not be taken as a half course for credit toward the A.B. degree; there are no exceptions to this rule.* The hour exam for this course will be held from 8 to 9 a.m. during the fall and spring terms. Not open to auditors.

#### **\*German Bab. Elementary German (Intensive)**

Catalog Number: 8629

*Eric Rentschler and staff*

*Full course (spring term). M. through F., sections at 9, 10, or 11, plus one hour on M. to be arranged. EXAM GROUP: 2, 11*

A complete first-year course in one semester for students with no knowledge of German.

Provides a thorough introduction to the fundamentals of German, 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 readings of 20th-century literature.

*Note:* Open to undergraduates. Open to graduate students only with permission of the instructor. Students planning to enroll are required to sign up for the course with Dr. Sylvia Schmitz-Burgard at the German department before the start of the term. May not be taken Pass/Fail; not open to auditors.

#### **German Ca. Intermediate German: Reading, Speaking, and Aural Comprehension**

Catalog Number: 3367

*Charles P. Lutcavage and staff*

*Half course (fall term). M., W., F., sections at 10 or 11. EXAM GROUP: 3*

Using an interactive discussion format, this third-semester language course offers systematic vocabulary-building and a grammar review. The focus is on improving comprehension and speaking skills. Materials include short fiction and drama, poetry, contemporary film, interactive lab work, and cultural materials from German websites.

*Note:* Not open to auditors.

#### **German Cb. Intermediate German: Reading, Speaking, and Aural Comprehension**

Catalog Number: 7174



*Charles P. Lutcavage and staff*

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

Continuation of concentration on conversation tactics and vocabulary-building through class discussions. Materials include literary and non-literary texts, poetry, contemporary film, interactive lab work, and cultural materials from German websites. Structured grammar review.

*Note:* Not open to auditors.

*Prerequisite:* German Ca, German Da, Foreign Cultures 23a, or permission of the instructor.

### **German Da. Intermediate German: Speaking, Listening Comprehension, Reading, and Writing**

Catalog Number: 5779

*Charles P. Lutcavage and staff*

*Half course (fall term). M., W., F., sections at 9 or 10. EXAM GROUP: 2*

Conversation and writing activities based on a variety of reading materials (short stories, a radio play, poems, the filmscript of *Der Blaue Engel*). Authors include Brecht, Böll, Kafka, and others. Course offers a review of grammar with exercises in vocabulary-building. Skits and videos. Language lab and Internet materials provide cultural information on Germany and Austria.

*Note:* Especially recommended for those students who wish to improve their ability to speak and write German. Conducted in German. Not open to auditors.

*Prerequisite:* Honor grade in German A or German Bab, equivalent preparation, or permission of the instructor.

### **German Db. Intermediate German: Speaking, Listening Comprehension, Reading, and Writing**

Catalog Number: 2608

*Charles P. Lutcavage and staff*

*Half course (spring term). M., W., F., sections at 9 or 10. EXAM GROUP: 3*

Continuation of German Da. Reading material includes journalistic and political writings, as well as literary works by Dürrenmatt, Kafka, Böll, and others. Topics include the Berlin Wall, German unification, and current events. Language laboratory exercises feature a German television detective program.

*Note:* Not open to auditors.

*Prerequisite:* German Da or permission of the instructor.

### **German S. German for Reading Knowledge**

Catalog Number: 7177

*Michel Chaouli and staff*

*Half course (spring term). M., W., sections at 4–5:30 or 5–6:30. 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. Masterpieces of 19th-Century German Literature**

Catalog Number: 3213

*Michel Chaouli*

*Half course (fall term). M., W., (F.), at 9. EXAM GROUP: 2*



Close reading of fiction, drama, poetry, and essays from the main periods and tendencies of the 19th century. Works by Goethe, Kleist, Tieck, Hoffmann, Büchner, Heine, Droste-Hülshoff, Keller, Fontane, Nietzsche, and Freud.

*Note:* Expected to be omitted in 2000–01. Conducted in German.

*Prerequisite:* Satisfaction of the language requirement, equivalent preparation, or permission of the instructor.

### **German 50b. Masterpieces of 20th-Century German Literature**

Catalog Number: 5412

*Michel Chaouli and staff*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Close reading of fiction, drama, poetry, and essays from the main periods and tendencies of the 20th century. Works by Rilke, Freud, Kafka, Thomas Mann, Kolmar, Brecht, Borchet, Bachmann, Handke, Wolf, Jelinek, and others.

*Note:* Expected to be omitted in 2000–01. 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 60a. Advanced Reading, Conversation, and Composition**

Catalog Number: 1807

*Eric Rentschler and staff*

*Half course (fall term). Sections M., W., F., at 10 or Tu., Th., 10–11:30. EXAM GROUP: 3*

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:* Conducted in German. Not open to auditors.

*Prerequisite:* An honor grade in German C or D, equivalent preparation, or permission of the instructor.

### **German 65. Wirtschaftsdeutsch**

Catalog Number: 2678

*Charles P. Lutcavage*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

An advanced language course that focuses on communication and writing skills for a business environment. Attention to specialized vocabulary as well as cultural and political issues (e.g., German unification and the European Union) relevant to conducting business in the German-speaking world. Writing practice includes business correspondence and job applications. Articles from the German-language press together with videos and the Internet provide an up-to-date look at the contemporary economic and business scene in Germany, Austria, and the rest of Europe.

*Note:* Conducted in German. Not open to auditors. May not be taken Pass/Fail.

*Prerequisite:* German 60a, equivalent preparation, or permission of the instructor.

### **\*German 91r. Supervised Reading and Research**

Catalog Number: 1059

*Peter J. Burgard 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 Head Tutor is required.

**\*German 97hf. Tutorial — Sophomore Year**

Catalog Number: 1774

*Eric Rentschler and members of the Department*

*Half course (throughout the year). Alternate Th., 11:30–1:00. EXAM GROUP: 13, 14*

Introduction to German literary and cultural history and to the analysis of poetry, drama, narrative, film, and painting.

*Note:* Required of all concentrators.

**\*German 99. Tutorial — Senior Year**

Catalog Number: 3286

*Peter J. Burgard 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 Head Tutor is required.

***Cross-listed Courses***

**Foreign Cultures 23a. Deutschland vom Kaiserreich zum Dritten Reich**

**Foreign Cultures 23b. Oesterreich von Oesterreich-Ungarn zum Anschluss**

**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 poets (1170–1250): the *Nibelungenlied*, Hartmann's *Erec* and *Iwein*, Gottfried's *Tristan*, Wolfram's *Parzival*, Walther von der Vogelweide. Extended discussion of historical and cultural background. Texts read in modern German translations.

*Note:* Expected to be given in 2000–01. Graduate students read texts in the original.

*Prerequisite:* A reading knowledge of German.

**[German 110. Baroque]**

Catalog Number: 8078

*Peter J. Burgard*

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

Examines the literature and poetics of the German Baroque as well as the art of the European Baroque. Discussions of poetry, drama, and narrative address not only general questions of historical context and literary form, but also issues specific to the age. Focuses on questions of



identity and excess, which are introduced via consideration of European Baroque art. Readings include Fleming, Greiffenberg, Grimmelshausen, Gryphius, Harsdörffer, Hofmannswaldau, Kuhlmann, Logau, Lohenstein, Opitz, Silesius, Zesen. Artists considered include Bernini, Borromini, Caravaggio, Carracci, Rubens, Velázquez.

*Note:* Expected to be given in 2000–01. Readings in German, discussions in English.

### **[German 120. The Age of Goethe]**

Catalog Number: 5099

*Karl S. Guthke*

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

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:* Expected to be given in 2000–01. Readings in German, lectures and discussions in English.

### **German 138 (formerly Comparative Literature 160x). Nietzsche, Philosophy, and Literature**

Catalog Number: 1231

*Beatrice Hanssen*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Considers Nietzsche's influence on 19th- and 20th-century thought from the literature of aestheticism and decadence to contemporary critical theory. Nietzsche's major writings (*Birth of Tragedy*, *Genealogy of Morals*, *Zarathustra*) are read in conjunction with works by Wagner, Baudelaire, Huysmans, Wilde, Rilke, Mann, Hesse, Freud, Lou Andreas-Salomé, Foucault, Habermas.

*Note:* Expected to be omitted in 2000–01. Course conducted in English. Readings and discussions in English; German concentrators read the majority of texts in the original.

### **German 140. The Gothic Unconscious**

Catalog Number: 0792

*Michel Chaouli*

*Half course (spring term). M., W., (F.), at 9. EXAM GROUP: 2*

Ghosts and what becomes of them in the course of 19th-century literature. We will ask why, despite scientific advances, fictional worlds early in the century are often haunted by ghosts, why these specters become increasingly metaphorical, and why toward the end of the century they migrate into the psyche. How do ghosts function, whether they are imagined as goblins or as the unconscious? What problems are they meant to solve? Texts by Tieck, Kleist, Hoffmann, Büchner, Droste-Hülshoff, Marx, Stifter, Rilke, and Freud.

*Note:* Expected to be omitted in 2000–01. Readings and discussions in German.

### **German 148. Freud**

Catalog Number: 5403

*Peter J. Burgard*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Readings of Freud's major works (in translation) and discussion of the questions they raise for



life in the 20th century, for our concept of culture, and for the way we understand ourselves. Readings include *The Interpretation of Dreams*, *The Psychopathology of Everyday Life*, *Jokes and Their Relation to the Unconscious*, *Three Essays on the Theory of Sexuality*, *Totem and Taboo*, *Beyond the Pleasure Principle*, *Group Psychology and the Analysis of the Ego*, *The Ego and the Id*, *Civilization and Its Discontents*, and various of his lectures, essays, and case studies. *Note:* Expected to be omitted in 2000–01. No knowledge of German required. All readings and discussions in English; German concentrators read the majority of texts in the original.

**[German 151. Franz Kafka: His Works, His Time, His Impact]**

Catalog Number: 0169

*Judith Ryan*

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

Close readings of Kafka's novels and stories, with some attention to a selection from his diaries and letters. Attempts to situate Kafka's works in relation to the cultural context in which they originated. Some attention also to Kafka's impact on later writers; students may explore this aspect in their final papers.

*Note:* Expected to be given in 2000–01. No knowledge of German required. Readings and discussions in English; German concentrators read and discuss the works in the original.

**[German 154. Introduction to German Film Studies](#)**

Catalog Number: 5782

*Eric Rentschler*

*Half course (fall term). Th., 2–4. Screenings: M., 4–6. EXAM GROUP: 16, 17*

An intensive introduction to the study of German film, the course offers in equal measure survey appreciations of German film history as well as in-depth analyses of representative film texts.

We will consider film's relationships to literature and the other arts, questions of narrative, genre, and authorship as well as the dynamic interactions between film history and social history.

We will also open films up to perspectives offered by classical and contemporary film theorists and critics. Films to be studied include representative features and documentaries by Wiene, Lang, Murnau, Pabst, Riefenstahl, Staudte, Fassbinder, Herzog, Wenders, Dörrie, and others.

*Note:* Expected to be omitted in 2000–01. Readings and discussions in English.

**[German 155. Weimar Cinema: The Laboratory of Modernity]**

Catalog Number: 0662

*Eric Rentschler*

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

Films of the Weimar Republic, such as *Nosferatu*, *Metropolis*, *The Blue Angel*, and *M*, will be analyzed as enactments of the pre-Hitler era's dreams and nightmares, and as depictions of Germany's uneasy confrontations with modernity and modernization. Readings will provide historical and theoretical perspectives regarding the contested status of a nascent visual culture and its industrialized processing of experience. Texts by Balázs, Kracauer, Arnheim, Bloch, Goebbels, Benjamin, and Brecht.

*Note:* Expected to be given in 2000–01. No knowledge of German required. Readings, films, and discussions in English.



**[German 161. New German Cinema: Oppositional Energies and Utopian Designs]**

Catalog Number: 6351

*Eric Rentschler*

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

In 1962 twenty-six angry 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, Schlöndorff, Straub/Huillet, von Trotta, and Wenders, probing these films’ aesthetic shapes as well as their socio-political meanings and theoretical implications.

*Note:* Expected to be given in 2000–01. No knowledge of German required. Readings, films, and discussions in English.

**[German 170. Goethe’s *Faust*]**

Catalog Number: 1246

*Karl S. Guthke*

*Half course (spring 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.

*Note:* Expected to be given in 2000–01. Readings in German, discussions in English.

**[German 176. The Rise of Nazism and the German Resistance]**

Catalog Number: 4385

*Judith Ryan*

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

Traces the rise of nationalist movements and the emergence of various resistance efforts from the late 1920s to the end of World War II. Emphasis on the reflection of these developments in literary texts. Topics: the problematic relation of fascism and modernism; inner emigration; exile; women under Nazism; youth resistance groups. Authors include Roth, Thomas Mann, Benn, Klaus Mann, Jünger, Bonhoeffer, Kolmar, Seghers, Wiechert, and Inge Scholl.

*Note:* Expected to be given in 2000–01. Readings in German; discussions in English.

**[German 185. German Poems in Cultural Context]**

Catalog Number: 6300

*Judith Ryan*

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

Poetry from the Reformation to the present, read against the background of historical, social, and cultural events.

*Note:* Expected to be given in 2000–01. Readings in German, discussions in English.

**[German 190. The Modern German Novel and Social Reality](#)**

Catalog Number: 4870

*Judith Ryan*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Explores the fictional representation of German social reality during the period 1900–1933.

Examines the interaction of family and national traditions, individual psychology and the modern



technological world, artistic production and political forces, male and female modes of identity formation, nostalgia for home and the pull of the exotic. Authors treated include Thomas Mann, Gabriele Reuter, Hermann Hesse, Franziska zu Reventlow, Hermann Broch, and Arnold Zweig. *Note:* Expected to be omitted in 2000–01. Readings in German; discussions in English.

### **German 193. Stylistic Studies and Expository Writing**

Catalog Number: 6370

*Karl S. Guthke*

*Half course (spring term). W., 4–6. EXAM GROUP: 8, 9*

Close analysis and informal discussion of the style and significance of very short keynote literary texts, followed by various types of written work. Designed to develop appreciation of specific stylistic qualities and cultural implications of representative prose and poetry and of the finer nuances of the German language. Authors: Luther, Goethe, Brentano, Brothers Grimm, Heine, C. F. Meyer, G. Keller, Fontane, Wedekind, Morgenstern, Schnitzler, Hofmannsthal, Rilke, Hesse, Thomas Mann, Brecht, Enzensberger, Johnson, Grass, and others.

*Note:* Conducted in German. Required of concentrators in German literature.

*Prerequisite:* Completion of German 60a or permission of the instructor.

### *Cross-listed Courses*

[Comparative Literature 109. Aesthetic Disgust, Disgusting Aesthetics]

[Comparative Literature 151. The Faust Legend in Literature]

[Comparative Literature 162. (Neo) Existentialism]

[Comparative Literature 167. Contemporary Fiction]

[\*Folklore and Mythology 90 (formerly \*Folklore and Mythology 90a). Fairy Tales and Literary Culture]

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

[Foreign Cultures 31. Introduction to German Culture and Civilization]

**Foreign Cultures 76. Mass Culture in Nazi Germany: The Power of Images and Illusions**

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

[History of Art and Architecture 16d. Introduction to Northern Renaissance and Baroque Painting and Sculpture]

[\*Literature 118. Benjamin and the Frankfurt School]

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

**Literature and Arts A-18. Fairy Tales, Children's Literature, and the Culture of Childhood**

**Literature and Arts B-65. Music in *Fin-de-siècle* Vienna: The Origins of Modernism**

[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]

[Yiddish 102r. Modern Yiddish Literature I]

*Primarily for Graduates*



**[German 221. Goethe: Seminar]**

Catalog Number: 7666

*Peter J. Burgard*

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

Examines selected major works not only to gain an understanding of Goethe's oeuvre and the reasons for its influence on subsequent generations, but also to trace the playfully subversive disposition and textual practice of a writer who has traditionally been appropriated as a spokesman for aesthetic conservatism and reaction. Emphasis on texts from the so-called "classical" period.

*Note:* Expected to be given in 2000–01.

**[German 226. Georg Büchner: Proseminar]**

Catalog Number: 3538

*Karl S. Guthke*

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

Introduces methods of literary research, bibliographic tools, and preparation of research papers.

*Note:* Expected to be given in 2000–01. Open to qualified undergraduates.

**German 226r. Proseminar: Literary Theory**

Catalog Number: 1720

*Anton Kaes (University of California, Berkeley)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A critical introduction to contemporary literary and cultural theory. The first part is historical, where we study the emergence of literary criticism and theory as institutional praxes. In the second systematic part, we focus on current issues and debates within literary theory, including concerns such as intertextuality, historiography, cultural identity formation and postcolonial discussions, discourse theory, and the pros and cons of interdisciplinary cultural studies. We relate specifically German debates to the larger concerns in contemporary literary theory in an effort to comprehend the often underappreciated contributions of German theorists. Includes texts by Nietzsche, Heidegger, Foucault, Scherer, Derrida, Kristeva, de Man, Greenblatt, and others.

*Note:* Expected to be omitted in 2000–01. Discussions in English; readings in German and English.

**German 230. Political Romanticism**

Catalog Number: 3699

*Beatrice Hanssen*

*Half course (spring term). Tu., 2–4.*

In order to understand better the relations between aesthetics and politics, we may need to return to the period of Romanticism—or this, at least, is the working hypothesis of our semester-long investigation. Does Romanticism merely aestheticize politics—to invoke Benjamin—or does it perhaps also politicize aesthetics? Combines discussion of terms such as aesthetic fragment, reflection, allegory, and symbol with an analysis of their contemporary "use-value." Authors include Kant, Rousseau, Fichte, Schlegel, Wordsworth, Coleridge, Hoelderlin, Kierkegaard, Heidegger, Carl Schmitt, de Man, Rorty, Lacoue-Labarthe, Nancy, Arendt, and Varnhagen.



*Note:* Expected to be omitted in 2000–01. Course conducted in English. Readings in English; students with German-language proficiency read texts in the original.

**\*German 231. The Cultural Legacy of the Brothers Grimm**

Catalog Number: 5904

*Maria Tatar*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Examines the folktales collected and edited by the Brothers Grimm and investigates the dissemination of the tales in other folkloric and literary cultures. Special emphasis on the connection between fairy tales for children and the folklore of childhood.

*Note:* Expected to be omitted in 2000–01. Course conducted in English. Readings in English; students with German-language proficiency read texts in the original.

**[German 239. Turn-of-the-Century Prague: Seminar]**

Catalog Number: 3666

*Judith Ryan*

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

Prague as a rival and partner of Vienna; as an ethnic, linguistic, and cultural mixture; as a crucible of early modernism. Focus on prose narrative and drama. Authors include Kafka, Brod, Werfel, Weiss, Rilke, Meyrink, Mauthner, Kisch; contributors to the yearbook *Arkadia*; Löwy and the Yiddish theater.

*Note:* Expected to be given in 2001–02. Conducted in German.

**[German 244. Readings in Classical Film Theory]**

Catalog Number: 6388

*Eric Rentschler*

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

Explores 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 will also contemplate the pertinence of these contributions for recent discussions about gender, spectatorship, and modern culture's primacy of the visual as well as the ideological effects of mass-produced sights and sounds.

*Note:* Expected to be given in 2000–01. Course conducted in English. Readings in English; students with German-language proficiency read texts in the original.

**German 250. Cultural Studies and the Literary Text**

Catalog Number: 1364

*Maria Tatar*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

By focusing on problems such as identity formation, violence, gender, and sexuality, this course will situate literary texts in their cultural contexts and identify the ideological issues at stake in representational practices. Authors include Wedekind, Schnitzler, Hofmannsthal, Thomas Mann, Heinrich Mann, Döblin, Brecht, Grass, and Süßkind.

*Note:* Expected to be omitted in 2000–01. Course conducted in English. Readings in German.



**[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 2000–01. Open to qualified undergraduates.

**[German 268 (formerly German 168). German Feminism and Women's Literature]**

Catalog Number: 2790

*Beatrice Hanssen*

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

Focuses on representative German and Austrian authors such as Bachmann, Zürn, Kirsch, Wolf, and Jelinek, whose work will be read in conjunction with theoretical texts by Freud, Cixous, Lacan, Irigaray, Barthes, Bovenschen, Theweleit, Carter, MacKinnon, de Lauretis, Spivak, and Butler. Films by Ottinger, Sander, and Export.

*Note:* Expected to be given in 2000–01. Open to qualified undergraduates.

**[German 270. Aesthetic Theory (Kant to Adorno): Seminar]**

Catalog Number: 7365

*Beatrice Hanssen*

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

Examines major 18th-, 19th-, and 20th-century tracts on aesthetic theory that are still foundational to current debates about aesthetic ideology. Combines in-depth study of such concepts as representation, symbol, beauty, the sublime, and the end of art with discussion of their contemporary relevance. Primary texts by Kant, Schiller, Hegel, Schopenhauer, Kierkegaard, Nietzsche, Heidegger, Adorno. Critical responses by Gadamer, Eagleton, de Man, Bourdieu, Derrida, and Lyotard.

*Note:* Expected to be given in 2000–01. Open to qualified undergraduates.

**German 272. Gerhart Hauptmann's Major Plays: Seminar**

Catalog Number: 4547

*Karl S. Guthke*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Discussion of about eight plays in their social and cultural contexts.

*Note:* Expected to be omitted in 2000–01.

**German 295. Post-War to Post-Wall to Post-Union: The Politics of Cultural Production (European Studies Seminar)**

Catalog Number: 7648

*Peter J. Burgard and Peter Nisbet*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Examines German cultural production through three historical transformations: the post-war era, the fall of the wall and German unification, and the emergence of the European Union. Considers the political strategies of cultural productions themselves as well as the ways in which political realities affect cultural production. Topics addressed by visiting seminar leaders: literary and gender politics (Sigrid Weigel, Berlin); the politics of art (Siegfried Gohr, Karlsruhe);



memorializations of the Holocaust (James Young, UMass-Amherst); the politics of writing (Hans Magnus Enzensberger).

*Note:* Expected to be omitted in 2000–01. Readings in German and English; discussions in English.

*Cross-listed Courses*

[\*\*\\*Comparative Literature 284. Introduction to Kant's Critique of Judgment: Seminar\*\*](#)

[\*\*\\*Comparative Literature 288. Ideology of the Aesthetic-Aesthetic Ideology: Seminar\*\*](#)

*Graduate Courses of Reading and Research*

**\*German 300. Special Reading Programs and Research Problems for Advanced Students**

Catalog Number: 3646

*Peter J. Burgard 2217, Michel Chaouli 1681, Karl S. Guthke 1715 (on leave fall term), Beatrice Hanssen 3234, Eric Rentschler 2325, Judith Ryan 1135 (on leave spring term), and Maria Tatar 3645*

*Cross-listed Courses*

**\*Comparative Literature 310hf. Comparative Approaches to Medieval Literature: Doctoral Conference**

*Germanic Philology*

*Primarily for Graduates*

**[Germanic Philology 200. Introduction to Middle High German]**

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 exegesis of short literary and cultural texts. Some work with manuscripts and bookhands.

*Note:* Expected to be given in 2000–01. 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.

**[Germanic Philology 225. History of the German Language]**

Catalog Number: 5192

*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 2000–01. Conducted in German.



**Germanic Philology 280. Teaching Methods for Language Courses**

Catalog Number: 5944

*Charles P. Lutcavage*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

An introduction to teaching methods for introductory and intermediate German language courses. Emphasis on development of practical skills for classroom instruction.

***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, Jay H. Jasanoff 1661, Stephen A. Mitchell 7056, and Eckehard Simon 2670 (on leave 1999-00)*

***Cross-listed Courses***

**English 101. The History and Structure of the English Language**

**English 102c. Anglo-Saxon Language and Culture: The Millennium**

[\*English 202. Introduction to Runology]

[\*English 207n. Workshop in Old English and Old Norse]

**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 2000–01. *The first half of this course may not be taken as a half course for credit toward the A.B. degree.* Not open to auditors.

***Scandinavian***

***Primarily for Undergraduates***



### **Scandinavian 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*

Concentration on listening comprehension, oral expression, elementary reading and writing skills. Spring term: emphasis on more advanced conversational skills and introducing Swedish culture and civilization through selected articles and videos.

*Note: The first half of this course may not be taken as a half course for credit toward the A.B. degree. Not open to auditors.*

### **Scandinavian Ba. Intermediate Swedish**

Catalog Number: 3104

*Annette Johansson-Los*

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

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: Scandinavian A or equivalent.*

### **Scandinavian Bb. Intermediate Swedish**

Catalog Number: 3405

*Annette Johansson-Los*

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

Continuation of Scandinavian 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: Scandinavian Ba or equivalent.*

### **\*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 Head Tutor is required.*

### **\*Scandinavian 97. Tutorial — Sophomore Year**

Catalog Number: 1592

*Stephen A. Mitchell and members of the Department*

*Half course (fall 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 Head Tutor is required.*



**\*Scandinavian 98. Tutorial — Junior Year**

Catalog Number: 4255

*and members of the Department*

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

Group or individual tutorial designed to supplement course work and to develop analytical techniques.

*Note:* Permission of the Head Tutor is 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 Head Tutor is required.

***Cross-listed Courses***

**Foreign Cultures 78. Culture-Building and the Emergence of Modern Scandinavia**

***For Undergraduates and Graduates***

**[Scandinavian 103. Scandinavian Mythology and Folklore]**

Catalog Number: 3761

*Stephen A. Mitchell*

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

Surveys the religious beliefs of the North Germanic peoples, emphasizing the Viking period, and the ballad, legend, and folktale traditions of mainly post-Reformation Denmark, Sweden, Norway, Iceland, and the Faroes. The expression of Scandinavian myths and folklore in narratives and the plastic arts, and major interpretative strategies used to decode them, carefully considered. Readings include *The Prose Edda*, *The Poetic Edda*, several Norse sagas, and 19th-century folklore collections.

*Note:* Expected to be given in 2000–01. No knowledge of Nordic languages required. All readings in English; Scandinavian concentrators read the majority of works in the original.

**Scandinavian 151. The Viking World**

Catalog Number: 6970

*Stephen A. Mitchell*

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

Reviews the historical events in northern Europe A.D. 800–1100 and the literary legacy that resulted from those activities. Special attention is paid to the development of the North Atlantic colonies. The evidence for “viking” activity in the New World (e.g., the Vinland sagas, the archaeological record)—and the fabrication of such evidence (e.g., the Kensington rune stone, the “viking” city of Norumbega)—carefully considered.

*Note:* Expected to be omitted in 2000–01. All readings in English.

***Cross-listed Courses***



**Folklore and Mythology 100. An Introduction to Folklore & Mythology**

[Folklore and Mythology 108. Witchcraft]

[\*Folklore and Mythology 148. HarvardLore: Conference Course]

[\*Folklore and Mythology 166. Witchcraft and Hostile Magic in the Later Middle Ages: Conference Course]

*Primarily for Graduates*

**\*Scandinavian 200a. Introduction to Old Norse**

Catalog Number: 3622

*Joseph C. Harris*

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

The grammar of Old Norse (primarily Old Icelandic). Readings from a wide variety of medieval West and East Norse texts: runic inscriptions, sagas, histories, and eddic poems. Course guarantee: proficiency in reading by winter recess.

*Note:* Open to qualified undergraduates.

**Scandinavian 200br. Old Norse Literature: Edda and Saga**

Catalog Number: 2021

*Joseph C. Harris*

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

A continuation of Scandinavian 200a (or equivalent). Readings in eddic and skaldic poetry and in the saga literature. Special attention will be given to short story genres.

*Note:* Expected to be omitted in 2000–01. Open to qualified undergraduates with permission of the instructor.

**Scandinavian 210. Wise Women and Wicked Witches in the Old Norse Tradition**

Catalog Number: 1670

*Stephen A. Mitchell*

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

Readings and discussions of relevant literary, ecclesiastical, and documentary texts from medieval Iceland, Norway, Denmark, and Sweden.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Strong reading knowledge of Old Norse. German and/or a modern Nordic language.

***Graduate Courses of Reading and Research***

**\*Scandinavian 300. Special Reading Programs and Research Problems for Advanced Students**

Catalog Number: 1708

*Joseph C. Harris 1089 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*

Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science (*Chair*)  
 Alberto F. Alesina, Professor of Economics and of Government  
 James E. Alt, Frank G. Thomson Professor of Government  
 Robert H. Bates, Eaton Professor of the Science of Government  
 Eva Bellin, Associate Professor of Government  
 Seyla Benhabib, Professor of Government  
 Ted Brader, Instructor in Government  
 J. Lawrence Broz, Associate Professor of Government  
 Barry C. Burden, Assistant Professor of Government  
 Marc L. Busch, Associate Professor of Government and of Social Studies (*on leave 1999-00*)  
 Keith J. Bybee, Associate Professor of Government (*on leave spring term*)  
 Andrea L. Campbell, Instructor in Government  
 Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies and  
 Director of the Davis Center for Russian Studies  
 Kurt Dassel, Lecturer on Government (*spring term only*)  
 Matthew J. Dickinson, Associate Professor of Government (*on leave spring term*)  
 Jorge I. Domínguez, Harvard College Professor, Clarence Dillon Professor of International  
 Affairs, and Director of the Weatherhead Center for International Affairs  
 Grzegorz Ekiert, Professor of Government  
 Thomas Ertman, Frederick S. Danziger Associate Professor of Government  
 Jeffrey Frieden, Professor of Government (*Director of Graduate Studies*) (*on leave spring term*)  
 Thomas L. Friedman, Visiting Lecturer on Government (*spring term only*)  
 William W. Grimes, Visiting Assistant Professor of Government (*Boston University*) (*spring  
 term only*)  
 Peter A. Hall, Frank G. Thomson Professor of Government  
 Yoshiko M. Herrera, Assistant Professor of Government  
 Monica E. S. Hirst, Robert F. Kennedy Visiting Professor of Latin American Studies (*FLACSO-  
 Buenos Aires*) (*spring term only*)  
 Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor  
 Istvan Hont, Visiting Professor of Government (*Cambridge University*) (*fall term only*)  
 Samuel P. Huntington, Albert J. Weatherhead III University Professor  
 Torben Iversen, John L. Loeb Associate Professor of the Social Sciences (*on leave 1999-00*)  
 Alastair Iain Johnston, Governor James Albert Noe, Sr. and Linda and Christel Noe Laine  
 Professor of China in World Affairs  
 Michael Jones-Correa, Associate Professor of Government (*on leave spring term*)  
 Devesh Kapur, Assistant Professor of Government (*on leave spring term*)  
 Gary King, Professor of Government



Steven R. Levitsky, Assistant Professor in Government and in Social Studies  
 Stephen Macedo, Associate Professor of Government  
 Harvey C. Mansfield, William R. Kenan, Jr., Professor of Government  
 Lisa L. Martin, Professor of Government (*on leave spring term*)  
 Pierre Martin, William Lyon Mackenzie King Visiting Associate Professor of Canadian Studies  
 (*Université de Montréal*)  
 Sylvia Maxfield, Lecturer on Government  
 Pratap Bhanu Mehta, Associate Professor of Government and of Social Studies  
 Andrew Moravcsik, Professor of Government (*on leave fall term*)  
 Glyn Morgan, Assistant Professor of Government and of Social Studies  
 J. Russell Muirhead, Assistant Professor of Government  
 Paul A. Papayoanou, Visiting Assistant Professor of Government (*University of California, San Diego*)  
 Elizabeth J. Perry, Henry Rosovsky Professor of Government  
 H. W. Perry, Jr., Associate Professor of Government  
 Paul E. Peterson, Henry Lee Shattuck Professor of Government (*on leave 1999-00*)  
 Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics  
 Paul Pierson, Professor of Government (*on leave fall term*)  
 Robert D. Putnam, Stanfield Professor for International Peace  
 Louise M. Richardson, Associate Professor of Government (*Head Tutor*)  
 Stephen Peter Rosen, Beton Michael Kaneb Professor of National Security and Military Affairs  
 (*on leave fall term*)  
 M. Anne Sa'adah, Visiting Professor of Government (*Dartmouth College*)  
 Michael J. Sandel, Harvard College Professor and Professor of Government  
 Edward P. Schwartz, Associate Professor of Government  
 Jasjeet Singh Sekhon, Assistant Professor of Government (*on leave spring term*)  
 Kenneth A. Shepsle, George D. Markham Professor of Government  
 Theda Skocpol, Victor S. Thomas Professor of Government and of Sociology  
 Richard Sobel, Lecturer on Government (*fall term only*)  
 Dennis F. Thompson, Alfred North Whitehead Professor of Political Philosophy, Professor of Government (*FAS*), and Professor of Public Policy (*KSG*)  
 Richard Tuck, Professor of Government  
 Sidney Verba, Carl H. Pforzheimer University Professor  
 Celeste Wallander, Associate Professor of Government

***Other Faculty Offering Instruction in the Department of Government***

Graham T. Allison, Jr., Douglas Dillon Professor of Government (*Kennedy School*) (*on leave 1999-00*)  
 John Barnard, Assistant Professor of Statistics  
 David Epstein, Visiting Assistant Professor of Government (*Columbia University*)  
 David M. Hart, Assistant Professor of Government (*Kennedy School*)  
 J. Bryan Hehir, Professor of the Practice in Religion and Society (*Divinity School*)  
 David C. King, Associate Professor in Public Policy (*Kennedy School*)  
 Sidney M. Milkis, Visiting Associate Professor of Government (*Brandeis University*)  
 Roger B. Porter, IBM Professor of Business and Government (*Kennedy School*)



Adam B. Ulam, Gurney Professor of History and Political Science, Emeritus  
Christopher Winship, Professor of Sociology

A full list of courses that count toward undergraduate concentration is available in the Office of the Head Tutor.

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

1000–1019 and 2000–2019: Formal Theory and Methodology

1020–1099 and 2020–2099: 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

*Glyn Morgan and J. Russell Muirhead*

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

Examines competing conceptions of politics through classic readings in political philosophy. Arguments for and against various ideal regimes will be investigated, with a view to better understanding contemporary liberalism. Topics include freedom, equality, obligation, rights and power, as illuminated by thinkers such as Plato, Machiavelli, Hobbes, Locke, and Rousseau.

#### **Government 20. Introduction to Comparative Politics**

Catalog Number: 6166

*Eva Bellin and Grzegorz Ekiert*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Explores important questions and concepts in contemporary comparative politics. Themes will include the historical evolution of the state and citizenship, the power of ethnicity, the dynamics of regime change, the varied modalities of participation and contentious politics, and interactions



between politics, economics, and culture. Cases will be drawn from different regions and historical periods to give students a grounding in the tools of comparative analysis.

### **Government 30. Introduction to American Government**

Catalog Number: 0263

*Andrea L. Campbell and Matthew J. Dickinson*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

An introduction to American government and politics, emphasizing how citizens and institutions (the Congress, executive, courts, political parties, interest groups, public opinion, and the electorate) interact in the formation of public policies, and how this interaction has changed over time. The political process studied primarily through examination of several historical and contemporary cases, in areas such as civil rights, foreign policy, economic regulation, and electoral behavior.

### ***Cross-listed Courses***

### **Historical Study A-12. International Conflicts 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). Tu., 2-4.*

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, Northern Ireland.

#### **Government 90ac. Urban Politics**

Catalog Number: 5488

*Michael Jones-Correa*

*Half course (fall term). Tu., 2-4.*

Uses readings focused on three cities-Los Angeles, New York and Miami-to look at ongoing changes in urban politics. A major theme of the course will be how cities have dealt with rapid demographic change-white (and sometimes black) flight, the influx of immigration, and the rise of the multi-racial city. How do different urban institutions deal with these structural changes? How are new actors incorporated into existing (or new) political institutions? What are the preconditions for conflict and cooperation among different ethnic groups.



### **Government 90ap. North-South Trade Politics**

Catalog Number: 0799

*J. Lawrence Broz*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

In the industrialized world, trade policies toward manufactured and agricultural products have moved in opposite directions since early in this century: barriers on industrial goods have fallen by three-quarters while farm protection has climbed ten-fold. In the developing world, in contrast, trade and exchange restrictions protect manufacturers while creating enormous disincentives for farmers. Students will attempt to unravel these paradoxes.

### **[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 industrialized 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? These are some of the questions that we will seek to answer using the most promising theories in political science and economics.

*Note:* Expected to be given in 2000–01.

### **Government 90ax. Crucial Events in Chinese Elite Politics**

Catalog Number: 2548

*Roderick MacFarquhar*

*Half course (spring term). Tu., 2–4.*

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.

### **Government 90bf. Democratization: Possibilities and Limits**

Catalog Number: 0562

*M. Anne Sa'adah (Dartmouth College)*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Is democratic government always better than the alternatives? What makes it possible? Can it work outside "the West"? In the contemporary world, what is the relationship between economic development, democratic politics, and political order? What kinds of justice does democracy promote? We will discuss these questions by examining political patterns and policy dilemmas in India, South Africa, and China.

### **Government 90bu. The Causes and Preventions of War**

Catalog Number: 4317

*Kurt Dassel*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

In this seminar, the class will discuss a wide variety of explanations for the onset of war. We



begin by looking at theories of war at a variety of levels of analysis, including international structural theories, institutional theories and the role of regimes, dyadic theories such as deterrence, domestic political, and economic theories of war, and finally individual level theories such as those based on cognitive or motivated perceptions. The class will then apply these theoretical approaches to understanding the occurrence of several historical cases of wars and “near-wars” including WWI, WWII, Korea and the Cuban Missile Crisis.

### **Government 90cl. Human Rights and World Politics**

Catalog Number: 4536

*Andrew Moravcsik*

*Half course (spring term). W., 2–4.*

An examination of the history, politics, and law of the international human rights protection. The seminar analyzes the emergence, expansion, and enforcement of international norms concerning national guarantees of human rights.

### **Government 90cm. Human Rights: Political and Philosophical Perspectives**

Catalog Number: 4459

*Glyn Morgan*

*Half course (fall term). W., 7–9 p.m.*

Examines some of the philosophical and political issues raised by human rights. The philosophical questions discussed include: do human rights need a philosophical justification? Are human rights “ethnocentric”? Can philosophical arguments help us identify a list of human rights. Political questions include: what is the status of human rights with respect to constitutional and legal rights? What role should human rights play in an ethical foreign policy? Is the modern nation state a guarantor or a predator of human rights.

### **[Government 90cv. The European Union]**

Catalog Number: 8428

*Andrew Moravcsik*

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

An introduction to the history and theory of politics within the European Union: What political, social, and ideological forces have propelled the process of European integration forward toward a single European market, currency, foreign policy, regulatory policies, citizenship? What accounts for the specific successes and failures of integration at particular times and in specific matters? How can we explain political bargaining within EU institutions? What is the future of this multinational experiment?

*Note:* Expected to be given in 2000–01.

### **Government 90cy. Politics of International Trade and Finance**

Catalog Number: 7962

*J. Lawrence Broz*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Covers specialized topics in international trade and finance: trade wars, currency crises, international organizations, and exchange-rate regimes.



**Government 90dx. Political Participation and Public Policy in the U.S.**

Catalog Number: 1784

*Andrea L. Campbell*

*Half course (spring term). W., 2–4.*

Examines the role of mass political participation in the policy-making process. Discussion of what normative theory says that role should be, how the public actually behaves and how representatives respond. Considers whether differences in participation rates by race, ethnicity, gender, age and class lead to unequal policy treatment. Case studies will include welfare, social security, health care, agricultural subsidies and tax policy.

**[Government 90el. International Financial Institutions]**

Catalog Number: 5667

*Devesh Kapur*

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

Examines the evolving role of the Bretton Woods Institutions (IMF and World Bank) and (to a lesser degree), the regional development banks. Topics include the governance and purposes of these institutions; the factors that shape their programs and policies; and the economic, social and political consequences of their programs.

*Note:* Expected to be given in 2001–02.

**Government 90fe. Are Americans Good Citizens?**

Catalog Number: 6986

*Ted Brader*

*Half course (fall term). Tu., 4–6. EXAM GROUP: 18*

How well do Americans live up to expectations for citizens in a democracy? We begin by considering different perspectives (civic republican, elitist, progressive) on what democracy demands of citizens. Then we review evidence on the actual political behavior of Americans in order to assess how it compares to expectations. In light of any gap between ideal and reality, we conclude by discussing alternative ways of dealing with this gap—education, institutional reform, revised standards, cynicism. Aspects of political behavior covered include knowledge, engagement, opinions, voting, participation, values, and tolerance.

**Government 90fr. Political Psychology**

Catalog Number: 6436

*Ted Brader*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

The psychology of political choices and actions is one of the oldest concerns and one of the strongest contemporary approaches to the study of politics. The course examines what this approach says about social identities (nationality, race, gender), elite decision-making (personality, perception, reasoning by historical analogy, uncertainty,) socialization, persuasion, obedience to authority, opinion formation, emotion, and other topics. Evaluates the strengths and weaknesses of this approach, as well as possibilities opened up by advances in the study of the human brain and mind.

**[Government 90ge. States and Markets in Developing Countries]**

Catalog Number: 7665



*Devesh Kapur*

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

Examines the interaction of states and markets in economic development in LDCs. Readings and discussion will focus on state and market institutions and the effects of globalization.

*Note:* Expected to be given in 2001–02.

### **Government 90gw. Contentious Issues and Policy Choices in Contemporary Japan**

Catalog Number: 6818

*Susan J. Pharr*

*Half course (fall term). Th., 2–4.*

Prior knowledge of Japan is not required. Focuses on a series of contentious issues in contemporary Japan, exploring the ideological, political, and social dimensions of each, and the Japanese approach to resolving them. Issues include constitutional revision and police power; patriotism and the role of the emperor; domestic responses to market opening pressures; social welfare and quality of life; environmental protection; problems of women, minorities and foreign workers; the issue of political corruption; Japan's future security role.

### **Government 90ia. Sino-US Relations in an Era of Rising Chinese Power**

Catalog Number: 9006

*Alastair Iain Johnston*

*Half course (spring term). M., 2–4.*

The course will assess theoretical arguments and empirical evidence concerning the implications of Chinese economic and military modernization for conflict and cooperation between China and the U.S. Some issues to be examined include global arms control, trade, the environment, and regional security.

### **Government 90is. International Security**

Catalog Number: 8419

*Paul A. Papayoanou (University of California, San Diego)*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

This seminar reviews major theoretical and historical issues in security studies. It covers balance, civil-military relations, deterrence, the balance of power, and the political economy of security policies. The course grounds theoretical discussions with analysis of important empirical issues—particularly the two world wars and the Cold War to give students an understanding of some of the most prominent historical issues in the political science literature and of the historiography of the 20th century great-power system.

### **[Government 90jp. The Struggle for Palestine/Israel]**

Catalog Number: 1254

*Eva Bellin*

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

Studies the century-long struggle over Palestine/Israel from a local perspective. Considers competing historical and moral claims to the land, the creation of political “facts” and dispossession, the influence of regional politics, the role of local political organizations from Hamas to Gush Emunim, the nature of conditions in the West Bank and Gaza, and the



possibilities for reconciliation between Palestinians and Israelis.

*Note:* Expected to be given in 2000–01.

### **Government 90kc. Women and the Law**

Catalog Number: 2621

*Seyla Benhabib*

*Half course (spring term). W., 2–4.*

After a historical examination of Aristotle, Locke, and Hegel on women, family, the state and law, this course will look at contemporary debates around abortion, pornography, and sexual harassment. Readings from McKinnon, Cornell, Butler, Nussbaum, Scott and others.

### **Government 90ke. The Civil Rights and the Anti-Vietnam War Movements: The Changing Locus of Social Movements**

Catalog Number: 6030

*Richard Sobel*

*Half course (fall term). Th., 2–4.*

This seminar examines the origins, goals, influences and interrelationship of two of the major social and political movements in the late 20th century: Civil Rights and Antiwar. It discusses the similarities, differences, focuses, and interconnection of these movements from the perspectives of race, class, and gender. As befits a course on social movements, students need to be active participants in the discussions and research.

### **Government 90km. The Political Economy of Africa**

Catalog Number: 1215

*Robert H. Bates*

*Half course (spring term). Th., 2–4.*

Covers recent writings on the politics and economics of Africa. Emphasis placed on recent writings on political reform (democratization), state disintegrations, and violence.

### **Government 90le. Culture, Identity and Politics in Europe**

Catalog Number: 4193

*M. Anne Sa'adah (Dartmouth College)*

*Half course (spring term). Th., 2–4.*

Examines contemporary European attempts to come to terms politically with rapid sociological change, increasing integration and “globalization,” and new forms of cultural diversity. Considers what these developments suggest about the contemporary practice and meaning of democracy. Focuses on France and Germany, with frequent reference to the United States.

### **Government 90nh. Competing Classics: Great Works in Comparative Politics**

Catalog Number: 4734

*M. Anne Sa'adah (Dartmouth College)*

*Half course (spring term). Tu., 2–4.*

Examines competing explanatory frameworks in comparative politics through a close reading of works that privilege different causal factors. Factors considered include: culture, institutions, class conflict, and “great men.” Substantive puzzles include the rise of fascism in Germany and the persistence of democracy in India.



**[Government 90oa. The Politics of Inequality]**

Catalog Number: 9386

*Torben Iversen*

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

Examines why some countries exhibit high and increasing inequality in terms of income and poverty, while other countries are characterized by high and growing unemployment and labor market exclusion. To what extent can these cross-national differences be explained by the organization of labor markets, welfare state institutions, competition from low-wage countries, the rise of low-skilled services jobs, or deliberate public policies? What are the trade-offs that governments face in seeking to reduce any particular form of inequality? In seeking answers to these questions, we will compare the experiences of countries in western Europe and north America.

*Note:* Expected to be given in 2000–01.

**Government 90q. U.S. – Latin American Relations**

Catalog Number: 5153

*Jorge I. Domínguez*

*Half course (fall term). W., 2–4.*

A study of political and economic relations between the United States and Latin American countries, and of the international relations of Latin America since 1945. 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 omitted in 2000–01.

**Government 90qa. Community in America**

Catalog Number: 4941

*Robert D. Putnam*

*Half course (spring term). W., 2–4.*

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 will be at the focus of this seminar.

**Government 90qb. The National Socialist Regime in Germany**

Catalog Number: 1663

*Thomas Ertman*

*Half course (fall term). W., 2–4.*

Explores the origins and nature of the Nazi regime. Topics include German anti-Semitism, the character of the Weimar democracy, the roots of Hitler's appeal and competing explanations of the Holocaust. Readings include recent works by Kershaw, Klemperer, Browning and Goldhagen.

**Government 90qc. Nationbuilding and Nationalism**

Catalog Number: 8648

*Thomas Ertman*

*Half course (spring term). W., 2–4.*

Examines the process of nationbuilding and the origins of nationalism with special reference to



19th- and 20th-century Europe. Considers competing explanations for the divergent paths followed by France, Germany and Britain as well as for the ongoing conflict in the Balkans. Readings include works by Anderson, Gellner, Brubaker and Haas.

### **Government 90ra. Foreign Policy and the New World Order**

Catalog Number: 9002

*Paul A. Papayoanou (University of California, San Diego)*

*Half course (spring term). W., 2–4.*

This seminar examines many of the various issues in U.S. foreign policy since the end of the Cold War. In seminar discussions and in writing assignments, students will analyze the determinants of foreign policy in the 1990s and articulate policy prescriptions.

### **Government 90sa. The Wealth of Nations: Adam Smith in Enlightenment Context**

Catalog Number: 1486

*Istvan Hont (Cambridge University)*

*Half course (fall term). W., 2–4.*

What was Adam Smith's own political and moral theory as opposed to the ones associated with his name today? Was he a liberal, a libertarian or a conservative? A critic or defender of modernity? A visionary market theorist or a timid and piecemeal reformer? The seminar examines the complex structure of the most celebrated foundational text of economics in the context of what Albert Hirschman famously called "political arguments for capitalism before its triumph." Topics will include Smith's advocacy of mass production, his four stages theory of history, his explanation of the origins of modern liberal Europe, his theory of moral sentiments, his relationship to fellow thinkers in the Scottish Enlightenment and his controversy with Jean-Jacques Rousseau and the French Physiocrats.

### **Government 90vw. Comparative Political Economy**

Catalog Number: 6372

*Peter A. Hall*

*Half course (spring term). Tu., 2–4.*

Explores the relationship between politics and economics with an emphasis on the way in which institutions condition differences in economic policy and performance across nations. Most cases will be drawn from the nations of Western Europe but some attention will be devoted to other developed polities such as those of the U.S. and Japan.

### **Government 90wk. Justice and Work**

Catalog Number: 3913

*J. Russell Muirhead*

*Half course (spring term). Th., 4–6.*

Explores understandings of justice as they bear on work. Topics include consent, moral desert, just pay, self-fulfillment, the work ethic, and alienation. Readings drawn from Aristotle, Locke, Marx, Mill, Weber, and contemporary political theorists.

### ***Tutorials***



**\*Government 91r. Supervised Reading and Research**

Catalog Number: 2444

*Louise M. Richardson and members of the Department*

*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 97. Tutorial — Sophomore Year**

Catalog Number: 0392

*Keith J. Bybee, J. Russell Muirhead, Louise M. Richardson and members of the Department*

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

Designed to provide a foundation for thinking, reading, writing, and talking about questions of politics, sophomore tutorial uses the experience of political development in the United States to investigate the fundamental political questions that confront any society.

*Note:* Fall term enrollment required of sophomore concentrators

**\*Government 98r. Tutorial — Junior Year**

Catalog Number: 7179

*Louise M. Richardson 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 99r. Tutorial — Senior Year**

Catalog Number: 3652

*Louise M. Richardson 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.

***Formal Theory and Methodology***

***For Undergraduates and Graduates***

**Government 1000. Quantitative Methods for Political Science I**

Catalog Number: 3990

*Jasjeet Singh Sekhon*



*Half course (fall term). Th., 12–2. EXAM GROUP: 18*

Introduction to major quantitative techniques used in political science. Covers exploratory data analysis, as well as descriptive and causal statistical inference of many types. The course emphasizes probability theory, regression analysis and other statistical techniques, and uses new techniques of stochastic simulation to get answers easily and to interpret statistical results in a manner very close to the political substance of the problem at hand.

*Note:* Frequently taken by undergraduates needing quantitative techniques for thesis research and by graduate students satisfying department requirements. This course also serves as the first in a series of three quantitative courses offered by the department.

**[Government 1003. Designing Political Science Research]**

Catalog Number: 2742

*Lisa L. Martin and Gary King*

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

Teaches how to design social science research. Explains how to recognize research questions that are most likely to be answerable and productive. Analyzes how to develop successful strategies for answering research questions, including deciding what evidence to gather, how to organize and analyze it, and how you would know if you were right or wrong. This course is for those planning to go to graduate school or law school, or considering writing senior theses, or who are curious about how to do political science rather than merely debate its findings.

*Note:* Expected to be given in 2000–01.

**[Government 1018 (formerly Government 1098). Games and Decisions: Theory of Collective Choice]**

Catalog Number: 2261

*Edward P. Schwartz*

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

Surveys rational choice theories, with special emphasis on the theory of decision (under certainty, risk, and uncertainty), the theory of strategic interaction (zero-sum and nonzero-sum game theory) and the theory of social choice (Arrow's theorem and the theory of majority rule). Dual focus on tools and exemplary applications.

*Note:* Expected to be given in 2000–01.

*Cross-listed Courses*

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

**[\*Sociology 212. Methods of Historical Macroanalysis ]**

*Primarily for Graduates*

**[Government 2000. Quantitative Methods for Political Science II]**

Catalog Number: 2281

*Jonathan Nagler (University of California, Riverside)*

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

Provides a working knowledge of some of the quantitative methods commonly used in social science research. Creative use of the general linear model emphasized along with a consideration



of the assumptions usually made in its application. A thorough understanding of high school algebra and the material from Government 1000 assumed.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Government 1000 or permission of instructor.

### **Government 2001. Advanced Quantitative Research Methodology**

Catalog Number: 8941

*Gary King*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

This course introduces the theories of inference underlying most statistical methods. It covers how new approaches to research methods, data analysis, and statistical theory are developed. With this foundation, we introduce (and “reinvent”) a wide variety of known statistical solutions to a wide range of social science data problems. We also show how it is easy to conceive original approaches and new statistical estimators when required. The specific models introduced will be chosen based on students’ research topics. In past years they have included models for event counts, ecological inference, time-series cross sectional analysis, compositional data, causal inference, and others.

*Note:* For the first time this year, only Government 1000 or the equivalent is a prerequisite (Gov 2000 is no longer necessary). More information is available at Gary King’s homepage at <http://GKing.Harvard.Edu>.

### **Government 2002. Topics in Quantitative Methods**

Catalog Number: 8168

*Jasjeet Singh Sekhon*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Explores various topics in quantitative methods. Topics include time series, time series cross section, latent variable, and limited-dependent and qualitative variable methods. Undergraduates are welcome.

### **[\*Government 2004. Analytic Frameworks for Explaining and Predicting Decisions and Actions in Domestic and Foreign Affairs]**

Catalog Number: 5002 Enrollment: Limited to 12.

*Graham T. Allison, Jr. (Kennedy School)*

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

This seminar will examine the philosophical and conceptual assumptions embodied in alternative models for explaining and predicting decisions and actions in both domestic and foreign affairs. The principal case to be examined is the Cuban missile crisis, beginning with *The Essence of Decision*, 1971, which is being substantially revised for publication. The seminar will examine theories of rational choice, cognition and perception, organizational behavior, bureaucratic politics, intergovernmental relations, and multi-level game theory. Each student will prepare a research paper. Grades will be based on the paper and on class participation.

*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School of Government as ISP-305. Meets at the Kennedy School.

### **Government 2005 (formerly Government 2050). Theory of Collective Choice: Strategy, Voting, and Choice**



Catalog Number: 1719

*Edward P. Schwartz*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

Introduction to game-theoretic concepts within a political framework. Focus on preferences, strategic choice, and equilibrium concepts. Analysis of various voting procedures under different institutional and behavioral regimes. Systematic introduction to Arrow's Impossibility Theorem and resulting literature.

**Government 2006 (formerly Government 2051). Collective Choice: Institutions and Positive Political Theory**

Catalog Number: 5487

*Edward P. Schwartz*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Examines political institutions from a rational choice perspective. The now-burgeoning rational choice literature on legislatures, bureaucracies, courts, and elections constitutes the chief focus. The central idea is to understand what role institutions play in achieving political outcomes by democratic means.

*Note:* Government 2005 (formerly 2050) or equivalent recommended.

**[Government 2010. Strategies of Political Inquiry]**

Catalog Number: 7421

*Gary King, Dennis F. Thompson, and Sidney Verba*

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

If you could learn only one thing in graduate school, it should be how to do scholarly research. You should be able to assess the state of scholarly literature, identify interesting questions, formulate strategies for answering them, have the methodological tools with which to conduct the research, and understand how to write up the results so they can be published. Although many graduate level courses address these issues of research design indirectly, we provide an explicit analysis of each. We take empirical evidence to be historical, quantitative, or anthropological and focus on the theory of descriptive and causal inference underlying both quantitative and qualitative research. This year, we also plan to address ways that political philosophy and empirical analysis can be used to improve research in both areas.

*Note:* Expected to be given in 2000–01.

***Political Thought and Its History***

***For Undergraduates and Graduates***

**[Government 1054. Political Theory, Universalism, and Imperialism]**

Catalog Number: 3339

*Pratap Bhanu Mehta*

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

The history of modern political thought coincides with the “Age of Imperial Expansion.” This course examines the complex relationship between political thought and the imperial experience. What arguments were used to justify this enterprise? How did these theorists deal with the possible incommensurability of moral norms and the experience of difference? What light does



this experience shed on the staple concepts of political thought like ‘state of nature,’ ‘progress,’ ‘reason’ etc? How does one conceptualize and evaluate the normative claim to universality embodied in these theories? Readings include Montaigne, Grotius, Locke, Diderot, Rousseau, Herder, Burke, Mill.

*Note:* Expected to be given in 2000–01.

**Government 1060. The History of Ancient and Medieval Political Philosophy**

Catalog Number: 4978

*Harvey C. Mansfield*

*Half course (fall term). Tu., Th., 2–4. EXAM GROUP: 17*

This course examines major works of ancient and medieval political philosophy with special attention given to the question of natural right.

**Government 1061. Political Thought from Machiavelli to Nietzsche**

Catalog Number: 5035

*Richard Tuck*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Theory and discussion of rival accounts of the basic concepts of politics and history. This course will consider the rival theories of modern politics from the Renaissance to the beginning of the 20th century.

**[\*Government 1065. From Hegel to Habermas: Topics in Continental Thought]**

Catalog Number: 6288

*Seyla Benhabib*

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

After an in-depth examination of Hegel’s theory of the modern state, the course examines concepts of legitimacy, sovereignty, rights, civil society, cosmopolitanism and the nation in European political theory. Readings from Kant, Hegel, Weber, Franz Neumann, Carl Schmitt, the Frankfurt School, Habermas, and Derrida.

*Note:* Expected to be given in 2001–02. Open to qualified graduates and undergraduates with two or more courses in the history of modern political thought.

**[Government 1080. American Political Thought]**

Catalog Number: 8049

*J. Russell Muirhead*

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

Investigates American Political Thought from the founding to the present, with reference to contemporary assessments of the American political tradition. Topics include pluralism, race, federalism, feminism, and national identity and purpose. Readings drawn from Jefferson, Madison, Hamilton, Adams, Franklin, Webster, Story, Anthony, Lincoln, and the Roosevelts.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

*Note:* These courses do not satisfy the political theory field requirement in Government.

**Historical Study A-17. Modern Political Ideologies**



[[Moral Reasoning 17. Equality and Difference](#)]

[Moral Reasoning 22. Justice](#)

[Moral Reasoning 58. Slavery in Western Political Thought](#)

[Moral Reasoning 64. The Ethics of Everyday Life: Work and Family](#)

*Primarily for Graduates*

**[\\*Government 2030. Political Concepts: Field Seminar](#)**

Catalog Number: 0551

*Richard Tuck*

*Half course (spring term). Tu., 12–2. EXAM GROUP: 14, 15*

Reading and discussion of rival accounts of the basic concepts of political thinking.

**[Government 2031. Taking Pluralism Seriously](#)**

Catalog Number: 1211

*Pratap Bhanu Mehta*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

This course examines the moral and political implications of value pluralism through a reading of classic texts and contemporary examples. Readings include Berlin, McIntyre, Taylor, Habermas, Kymlicka, Hampshire, etc.

**[\\*Government 2032. Classics of Social Theory](#)**

Catalog Number: 1018

*Thomas Ertman*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Concentrates on a close reading of the works of, among others, Marx, Weber, Durkheim, Foucault, and Habermas. Explores the relevance of these authors' insights to political science.

*Note:* Intended primarily for graduate students in Government.

**[\\*Government 2034. Markets, Morals, and Law](#)**

Catalog Number: 4652

*Michael J. Sandel*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Are there some things that money cannot or should not buy? If so, what moral limits, if any, should the law impose on market exchanges? The seminar will examine a range of morally contested contracts and exchanges — from surrogacy, organ sales, and prostitution to usury and interest, vote-selling, life insurance, wage labor, and pollution permits — and consider the philosophical questions they raise. Course readings will be drawn from political theory, moral philosophy, and selected law cases.

*Note:* Offered jointly with, and meets at, the Law School. Open to GSAS students with permission of the instructor.

**[Government 2052. Plato's Political Philosophy](#)**

Catalog Number: 0185

*Harvey C. Mansfield*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*



Plato's political philosophy to be studied through a reading of Plato's *Laws*.

*Note:* Open to qualified undergraduates.

**Government 2058. Markets and Enlightenment: The 18th-Century Debate on the Morals and Politics of Commercial Society**

Catalog Number: 7516

*Istvan Hont (Cambridge University)*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

An introduction to Enlightenment theories of political economy and the various critiques and affirmations of modern civilization with which they were associated at the time. The seminar compares the morally contested theoretical histories of the origins of morality, sociability and government emerging from the writings of Mandeville, Montesquieu, Hume, Rousseau, Adam Smith, Kant and other 18th-century authors. Topics will include the luxury debate, “Das Adam Smith Problem” (including controversies between Adam Smith, Rousseau and the Physiocrats), and questions related to the form and principle of the modern (as opposed to classical) republic.

*Note:* Open to qualified undergraduates.

**Government 2064. Nations, States, and Citizens**

Catalog Number: 8169

*Seyla Benhabib*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Examines questions of citizenship and political membership in the global era. Examines philosophies of citizenship as well as recent developments in citizenship practices in the European Union. Readings from Aristotle, Rousseau, Kant, Arendt, Walzer, Habermas, Taylor, Shklar, Brubaker and Rogers Smith.

**[\*Government 2066. Political Theory and the Public Sphere]**

Catalog Number: 1897

*Seyla Benhabib*

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

Examines the concept of the public sphere and theories of ‘deliberative democracy.’ Readings from Kant, Rawls, Habermas, Thompson and Gutmann, Fishkin, Walzer and Taylor.

*Note:* Expected to be given in 2001–02.

**Government 2080. Topics in Political Philosophy: Manliness**

Catalog Number: 6828

*Harvey C. Mansfield*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

The virtues and failings of this strange quality; whether it can be abolished, or if not, how it should be tamed; its relation to politics; its function in liberalism. Readings from ancient and modern philosophers from Plato to Nietzsche; works of fiction; feminist theory.

**Government 2086. Partial Associations and Democratic Freedom**

Catalog Number: 0619

*Richard Tuck*

*Half course (fall term). Tu., 12–2. EXAM GROUP: 14, 15*



The late 20th century has seen a great deal of discussion about the political importance of what can be called "intermediate" associations: theories about "social capital", "the institutions of civil society", "middle democracy", and so on, are all dealing with these kinds of bodies. But this discussion has a long and surprising history. From the time of Hobbes onwards, many of the most powerful modern political theorists attacked what Rousseau called "partial associations", including churches, guilds, and political parties, as the principal constraints on human freedom and democracy. This course will consider the history of this debate, beginning in 16th-century France with Jean Bodin, and ending in late 20th-century America; writers to be studied from this perspective include Hobbes, Rousseau, Adam Smith, Kant, Hegel, Marx, the early 20th-century writers on political parties and current theorists of "social capital".

## ***Comparative Government***

### ***For Undergraduates and Graduates***

#### **[Government 1100. Political Economy of Development]**

Catalog Number: 7687

*Devesh Kapur*

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

Comparative analysis of political economy of development drawing on case studies from Africa, Asia, Middle-East and Latin America.

*Note:* Expected to be given in 2000–01.

#### **Government 1102. The Political Economy of Democratic Transitions**

Catalog Number: 6232

*Yoshiko M. Herrera*

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

Comparative investigation of market-oriented economic reforms and transitions to democracy in Latin America, Eastern Europe, and Asia, focusing on the interdependence between political and economic reforms. 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. Considers the bases of democratization and economic prosperity in terms of interests, institutions, and ideas.

#### **\*Government 1115 (formerly Government 2205). Collective Action, Protest Movements, and Politics**

Catalog Number: 5508

*Grzegorz Ekiert*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

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 will be drawn from different regions and historical periods.

#### **Government 1166. The Politics and Government of Canada**

Catalog Number: 8996



*Pierre Martin (Université de Montréal)*

*Half course (fall term). M., W., at 12. EXAM GROUP: 5*

A survey of politics in contemporary Canada, presenting that country's political institutions and processes in comparative perspective. The course addresses issues in Canadian politics as puzzles that pose a challenge for political analysis, including: Why does Canada have a more extensive welfare state than the United States? Why is Canadian politics so fragmented along regional lines? What explains the evolution of the Quebec sovereignty movement? Can there be a solution to the constitutional conundrum? Why did Canada opt for continental free trade after resisting it for so long? Is Canada becoming more like the United States?

**[Government 1170. The Political Development of Western Europe]**

Catalog Number: 9925

*Peter A. Hall*

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

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 historical developments, such as the English and French Revolutions, the Industrial Revolution, 19th century democratization, and the rise of fascism. Examines issues associated with: the development of the modern state, processes of democratization, the relationship between capitalism and democracy, and the origins of Nazism.

*Note:* Expected to be given in 2001–02.

**[Government 1173. The Politics of Western Europe](#)**

Catalog Number: 0105

*M. Anne Sa'adah (Dartmouth College)*

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

An introduction to the domestic politics of Western Europe since 1945, focusing on Britain, France, Germany, and Italy. Topics include the evolution of governmental institutions and understandings of citizenship, challenges to representative politics, policy patterns, and the domestic politics of European integration.

**[Government 1203 (formerly Government 2203). Political Transitions in East Central Europe]**

Catalog Number: 7078

*Grzegorz Ekiert*

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

Examines three critical periods in post-1945 East European politics: the imposition of communist regimes, crises of de-Stalinization, and the collapse of these regimes in 1989. The recent literature on regime change and democratization provides the framework for analysis of these developments.

*Note:* Expected to be given in 2000–01. Weekly meetings will be divided between lecture and discussion.

**[Government 1207. Comparative Politics of the Middle East]**

Catalog Number: 5232

*Eva Bellin*



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

Introduction to the politics of the region through the study of regime type in five Middle Eastern countries. Considers the rentier patrimonial state in Saudi Arabia, the populist authoritarian state in Egypt, the praetorian exclusionary state in Syria, the (failed) consociational democratic state in Lebanon, and the cyclical democratic state in Turkey.

*Note:* Expected to be given in 2000–01.

### **[Government 1208. The Politics of Islamic Resurgence]**

Catalog Number: 0907

*Eva Bellin*

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

Studies the impact of Islamic resurgence on both international and intranational politics. Explores competing explanations for Islamic resurgence (cultural, economic, and political), Islamic movements in comparative perspective (with cases selected cross-regionally from Iran and Egypt to Indonesia and France), the ideological content of Islamic revival (and debates over its potential conflict with Western notions of democracy, human rights, and gender equality), the successes and failures of Islamic revolution, the politics of cultural change, and Islam as supranational movement.

*Note:* Expected to be given in 2000–01.

### **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

*Timothy J. Colton and Yoshiko M. Herrera*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

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.

### **Government 1265. East Asian Political Economies**

Catalog Number: 7455

*William W. Grimes (Boston University)*

*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16*

Why did the economies of Japan, South Korea, and Taiwan grow so rapidly in the post-war period? And why do they seem so fragile now? This course will examine the economic policies,



economic practices, and state-society relations that have shaped the past, present, and future of the Northeast Asian capitalist economies. It will seek to clarify the ways in which different political and economic systems deal with common problems through a careful comparative analysis of change and continuity in such areas as industrial policy, financial regulation, industrial organization, and labor relations.

**Government 1295. Comparative Politics in Latin America**

Catalog Number: 4241

*Steven R. Levitsky*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Examines the dynamics of political and economic change in twentieth century Latin America, exploring the causes and consequences of the phenomena we have conceptualized as populism, import substituting industrialization (ISI), bureaucratic authoritarianism, democracy, and neoliberalism. Examines Latin American politics from the collapse of oligarchic rule and the emergence of populism and ISI in the 1930s and 1940s to the widespread collapse of democracy and establishment of military regimes in the 1960s and 1970s, to the contemporary processes of democratization and economic liberalization. The course compares different theoretical approaches in an effort to explain both these general processes of change and important differences across Latin American countries.

*Cross-listed Courses*

**Economics 1430. Macroeconomics and Politics**

**[Foreign Cultures 48. The Cultural Revolution]**

**[Historical Study A-15. Politics and Society in the Making of Modern India]**

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

**Historical Study A-72. The Development of the Modern State**

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

**Social Analysis 52. Growth and Development in Historical Perspective**

*Primarily for Graduates*

**\*Government 2105. Comparative Politics: Field Seminar**

Catalog Number: 0154

*Timothy J. Colton and Samuel P. Huntington*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Surveys major topics in comparative politics. Works of theoretical importance from both the developed and the developing world considered. Addresses such issues as development of the modern state; institutions of government; social cleavages and interest mediation; democracy and authoritarianism; revolution and political stability; political parties; mass and elite political behavior.

**[\*Government 2112. Comparative Political Economy]**

Catalog Number: 8251

*Peter A. Hall and Torben Iversen*

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



A survey of several main topics and theories in comparative political economy with a focus on advanced industrial democracies. Concentrates on theories that try to explain fundamental differences in economic policy and performance across nations, seeking to establish the relative importance of institutional variables, political cleavages, partisanship and ideology with particular attention to pressures for convergence and the politics associated with 'globalization'.  
*Note:* Expected to be given in 2001–02.

**Government 2113. Social Capital and Public Affairs: Research Seminar**

Catalog Number: 7051

*Robert D. Putnam*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Topics in the relationship between politics and civil society in the United States.

*Note:* Offered jointly with the Kennedy School of Government as API-420. Meets at FAS.

**[\*Government 2131. Comparative Politics of Latin America]**

Catalog Number: 3337

*Jorge I. Domínguez*

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

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.

*Note:* Expected to be given in 2001–02.

**Government 2141. History, Institutions, and Political Analysis**

Catalog Number: 6266

*Paul Pierson*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A recent trend in political science has been the turn to history, as analysts ask what the investigation of earlier events and processes can tell us about the nature of contemporary politics. Course examines this body of research to clarify the pitfalls and possibilities of studying politics as a process which takes place over time. Among the themes to be explored are: ideas of path dependence and critical junctures in political development; techniques for studying the significance of timing and sequence in politics; and role of actors' time horizons -- which may be long or short -- in shaping political processes. Places considerable emphasis on recent theories of institutional origins, development and change, because institutions are perhaps the principal instruments through which previous politics shape current politics. Readings will include a wide range of empirical and theoretical writings drawn from all the subfields of political science.

**Government 2144. Issues in Comparative Political Analysis**

Catalog Number: 8747

*Grzegorz Ekiert and Peter A. Hall*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Intended for doctoral students undertaking research in comparative politics. Explores a range of issues associated with effective research design and sound comparative analysis including issues of measurement, conceptualization, selection of cases, establishing causal relationships, and



research techniques as well as some of the deeper dilemmas of modelling a complex, multicausal world.

**\*Government 2155. Comparative Economic Policy-Making: Research Seminar**

Catalog Number: 0332

*Peter A. Hall*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Explores the political and institutional dimensions of economic policy-making with an emphasis on the evolution of policy in Western Europe and contemporary efforts to cope with the problems of unemployment, welfare states and international integration.

**[\*Government 2160. Politics and Economics]**

Catalog Number: 7780

*James E. Alt and Lisa L. Martin*

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

Covers the political economy of policymaking and institutional change. Readings include a mixture of foundational approaches and recent research. Topics include political business cycles and voting; debt, deficits, and the size of government; political economy of trade and special interests; and monetary institutions and exchange rates.

*Note:* Expected to be given in 2000–01.

**Government 2162 (formerly Government 2062). Perspectives on Political Economy**

Catalog Number: 1999

*Robert H. Bates and Kenneth A. Shepsle*

*Half course (fall term). M., 4–6. EXAM GROUP: 9*

A microperspective on various topics in political economy, including the emergence and development of institutions, property rights, agency relationships, the effects of time on politics, and the role of politicians (“putting the politicians back in”).

**Government 2168. Individual Opinion Formation and Societal Choice**

Catalog Number: 5152

*Pierre Martin (Université de Montréal)*

*Half course (spring term). Tu., 4–6. EXAM GROUP: 18*

This seminar focuses upon how individuals form opinions when confronted with consequential political choices, notably in debates over constitutional change or international economic integration. First, the course surveys theories of individual choice, drawing on works in economics, sociology, philosophy and political psychology. Second, we will review the empirical literature about opinion formation on constitutional change (with an emphasis on Quebec and Canada) and on economic integration initiatives (NAFTA and the EU). Third, students will prepare and present an empirical study of opinion formation, relying on the statistical analysis of survey data. Some knowledge of multivariate statistical methods is expected.

**[\*Government 2175. Comparative Politics of the Welfare State]**

Catalog Number: 6345

*Paul Pierson*



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

Explores the factors leading to distinctive patterns of social policy across the advanced industrial societies. Particular attention paid to the impact of contemporary pressures for austerity on national welfare states, and to an exploration of the linkages between systems of social provision and distinctive national “models” of economic development.

*Note:* Expected to be given in 2000–01.

**[\*Government 2197. Political and Economic Development in Africa]**

Catalog Number: 9130 Enrollment: Limited to 20.

*Robert H. Bates*

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

Students will attend lectures with SA52 and then meet for a two hour seminar. Reading and discussion will focus on the political economy of development in Africa, viewed from an historical perspective.

*Note:* Expected to be given in 2000–01.

**Government 2213. Comparative Politics of Post-Socialism**

Catalog Number: 6876

*Grzegorz Ekiert and Yoshiko M. Herrera*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A research seminar designed to define an agenda for the comparative analysis of political developments among postsocialist systems. Emphasis placed on the formation of research proposals, methods of analysis, theory-building, and the presentation of comparative empirical research.

**Government 2262. Politics and Political Economy in Japan**

Catalog Number: 7446

*Susan J. Pharr*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Explores major issues in Japanese politics and political economy in historical and comparative perspective, including the role of the ruling party, bureaucracy, and big business in policymaking; the trade-offs of a “one-party dominant” political system; the role of an opposition in such a system; and the international, sociocultural, economic, and political determinants of domestic policy choices.

*Note:* Open to qualified undergraduates.

**Government 2284. Chinese Authors on Chinese Politics**

Catalog Number: 7556

*Roderick MacFarquhar*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

An examination of how P.R.C. authors have analyzed the politics of their country and comparisons with relevant Western accounts.

*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 (spring term). Tu., 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.

### ***American Government, Public Law and Administration***

***For Undergraduates and Graduates***

### **Government 1300. Legislative Politics**

Catalog Number: 8868

*Barry C. Burden*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

This course is a thorough survey of what scholars know about legislative elections and legislative organization. Its focus is both descriptive and theoretic; the expectation is that legislative outcomes are the product of systematic calculation by goal-directed political actors. However, we will also consider normative concerns—i.e., does Congress function “well.”

### **Government 1335. The Role of the Jury in a Democratic Society**

Catalog Number: 6726

*Edward P. Schwartz*

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

We will examine the history and current practices of the U.S. criminal jury system. We will focus on important Constitutional cases that shaped our jury system as well as ongoing debates about jury reform. Section meetings will take the form of jury deliberations, where students will be asked to make difficult decisions about law and justice in the context of a particular case.

### **[Government 1340. Constitutional Interpretation]**

Catalog Number: 1721

*Keith J. Bybee*

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

An introduction to American constitutional interpretation. Provides a historical survey of basic Supreme Court doctrines and considers the stature of the Court as a particular sort of political institution.

*Note:* Expected to be given in 2001–02.

### **Government 1341. Civil Liberties**

Catalog Number: 5544

*Keith J. Bybee*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

An examination of contemporary constitutional interpretation, focusing on the Bill of Rights and the 14th Amendment. Specific consideration given to issues of race, gender, privacy, property,



free speech, religious diversity, and political representation.  
*Prerequisite:* Government 1340.

### **Government 1352. Campaigns and Elections**

Catalog Number: 5665

*Andrea L. Campbell*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Examines U.S. 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 of elections, negative advertising, campaign finance, term limits.

### **Government 1360. American Public Opinion**

Catalog Number: 8196

*Barry C. Burden*

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

Analyzes what Americans think about politics, why they do so, and what consequences these beliefs have on citizen behavior and system response. Investigates methods of survey research.

### **Government 1365. Media and Politics**

Catalog Number: 8834

*Ted Brader*

*Half course (fall term). M., W., at 12. EXAM GROUP: 5*

Examines the role of the mass media in American politics. Considers the relationship between politicians, the press, and the public, and how this relationship has changed over time. Looks at media influence on the workings of government, policy making, and election campaigning. Special emphasis on theories of political communication and research on media effects. Concludes by considering how politics affects the media, ethical issues in the role of the media, and how media politics in the U.S. compare to other democracies.

### **Government 1525. American Political Parties**

Catalog Number: 8107

*Ted Brader*

*Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6*

Analyzes the role of political parties in U.S. politics. Traces the development of parties and party systems from the country's founding to the present day, examining how the function and organization of parties has changed and been changed by the politics of the times. Considers the influence of parties in making policy and winning elections. Serious attention is given to the part of ordinary citizens in party politics, especially the causes, consequences, and dynamics of party identification.

### **Government 1540. The American Presidency**

Catalog Number: 4925

*Matthew J. Dickinson and Roger B. Porter (Kennedy School)*



*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13*

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 U.S. political system.

*Note:* Offered jointly with the Kennedy School of Government as PAL-115. Meets at FAS.

**\*Government 1582. Explorations in American National Identity**

Catalog Number: 9119

*Samuel P. Huntington*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

This is a limited enrollment discussion course open to both undergraduate and graduate students. Topics to be covered include: theories of identity; nationalism and ethnicity; origins, elements, and development of American national identity; immigration and assimilation; the place of religion in American self-definitions; current challenges to national identity; competing cultural and transnational identities; concepts of America as the “exceptional” or “universal” nation; prospects for a new American nationalism; the impact of changes in American identity for the American role in the world.

**Government 1590. Making American Public Policy**

Catalog Number: 4184

*Paul Pierson*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Survey of basic approaches to the study of national policymaking in the United States. What factors influence the identification of policy problems, the setting of agendas, and executive legislative decisions? How does the distinctive structure of American political institutions affect the policymaking process? Course balances a review of theoretical approaches to public policy analysis with detailed case studies on environmental, health, and budgetary policy.

*Cross-listed Courses*

**[Historical Study A-83. Civic Engagement in American Democracy]**

**Social Analysis 54. American Society and Public Policy**

**Social Analysis 58. Representation, Equality, and Democracy**

*Primarily for Graduates*

**\*Government 2305. American Government and Politics: Field Seminar**

Catalog Number: 2305

*Barry C. Burden and Theda Skocpol*

*Half course (fall term). W., 10–12. EXAM GROUP: 3, 4*

Designed to acquaint Ph.D. candidates in Government with a variety of approaches that have proved useful in examining important topics in the study of American government and politics. These approaches explored through intensive examination of illustrative works—classic as well



as contemporary—that range from general interpretations of American politics to studies of specific institutions and processes.

### **Government 2322. The U.S. Congress and Lawmaking**

Catalog Number: 4572

*David C. King (Kennedy School)*

*Half course (fall term). M., W., 11:30–1. EXAM GROUP: 4, 5*

How does the U.S. Congress really work? This course blends theory and practice to train anyone who may someday work in or lobby the U.S. Congress. The course is an in-depth exploration of legislative rules and procedures, how legislators make their decisions, and how citizens can best influence those decisions. Students practice what they are learning through a simulation, then analyze their experiences in a term paper. Dozens of current legislative staffers and several elected officials first learned about legislatures through this course, though it now also includes an optional Ph.D.-level component, offered through the Government Department. Ph.D. students write a publishable piece of original research evaluating a current set of theories.

*Note:* Offered jointly with the Kennedy School as PAL-210. Meets at the Kennedy School.

### **Government 2358. Congress and Legislative Politics**

Catalog Number: 8984

*Barry C. Burden*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Surveys the vast literature on the U.S. Congress with some comparisons to other legislatures. Topics include committees, elections, parties, leadership, rules, and roll call voting.

### **[\*Government 2490. Educational Politics and Policy]**

Catalog Number: 3399

*Christopher Jencks (Kennedy School) and Paul E. Peterson*

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

Analyses of controversies in research on educational policy and government with special interest given to urban schools.

*Note:* Expected to be given in 2000–01. Permission of instructor required for all students who are not degree candidates in the FAS Department of Government. Offered jointly with the Kennedy School of Government as HLE-348. Meets at the Kennedy School.

## ***International Relations***

### ***For Undergraduates and Graduates***

### **\*Government 1727. National and International Security**

Catalog Number: 2949

*Celeste Wallander*

*Half course (spring term). M., W., at 9, plus one hour to be arranged. EXAM GROUP: 2*

The problem of security in the international system and as a goal which states seek. Conceptual approaches to security, its relation to conflict, sources of insecurity and threat, the role of nuclear weapons and alliances in security strategies. Special problems of regional security, civil-military



relations, economics and security policy, and security policy in democracies.

*Note:* Non-FAS students may take this course only with permission of the instructor.

### **Government 1730. War and Politics**

Catalog Number: 6806

*Stephen Peter Rosen*

*Half course (spring term). Tu., Th., 2–4. EXAM GROUP: 16, 17*

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.

### **Government 1748. Terrorist Movements in International Relations**

Catalog Number: 8404

*Louise M. Richardson*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

Examines the philosophical and historical antecedents of contemporary terrorist movements and theoretical efforts to explain these movements. Explores in detail several movements in different parts of the world and compares their goals, tactics, financing, organization and achievements. Explores the relationship between democracy and terrorism and analyzes the counter-terrorism strategies of states acting unilaterally and multilaterally.

*Note:* Expected to be omitted in 2000–01.

### **Government 1773. Japan in the World Political Economy**

Catalog Number: 0947

*William W. Grimes (Boston University)*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Examines Japan's changing role in the world political economy through a consideration of both domestic issues (Japanese corporate system, industrial and financial policy, and policy making) and foreign economic relations (trade, aid, and finance). What have been the developmental costs and benefits of various economic and political structures? Does the Japanese economic "model" inherently create conflicts with economic partners?

### **Government 1780. International Political Economy**

Catalog Number: 0272

*Lisa L. Martin*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

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 1785. American Foreign Economic Policy**

Catalog Number: 0155

*J. Lawrence Broz*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

Surveys theories of foreign economic policy and assesses their usefulness in explaining patterns of American foreign economic relations, past and present. Topics included the domestic and international politics of U. S. trade policy, the management of exchange-rate relations, policies



toward American multinational corporations operating abroad and policies toward foreign multinationals operating in the United States, the international debt crisis, and foreign aid policy.

### **Government 1790. U.S. Foreign Policy**

Catalog Number: 8282

*Paul A. Papayoanou (University of California, San Diego)*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course examines the making of U.S. foreign policy, covering the historical record from the founding of the United States to the present. The focus is primarily on relations with the Soviet Union/Russia and Western Europe during the Cold War, although various issues in post-Cold War U.S. foreign policy are also covered. The course analyzes basic facts, themes, and issues, highlighting the influence on foreign policy of: (1) power considerations; (2) domestic politics in the United States and in other countries; (3) domestic and international economic factors; and (4) credibility concerns.

### **Government 1800. Globalization and Its Discontents**

Catalog Number: 8592

*Stanley Hoffmann, Thomas L. Friedman, and Michael J. Sandel*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

How is globalization changing domestic and international politics? Are global markets and media drawing us together or driving us apart? Is the new global capitalism good or bad for democracy? The course will explore the consequences for international conflict, national sovereignty, cultural diversity, and political identity of a world in which national boundaries count for less than they once did.

### **Government 1905. International Relations of South America**

Catalog Number: 2164

*Monica E. S. Hirst (FLACSO-Buenos Aires)*

*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16*

Examination of main trends in South American international relations in post 1945, with emphasis on three shaping factors: political regime and foreign policy patterns; relations with the United States; developments in intra-regional relations. Special attention to post-cold war changes underlying the impact of democratization, economic reforms, regional integration initiatives and security cooperation.

### **[Government 1982. Chinese Foreign Policy, 1949–1998]**

Catalog Number: 8908

*Alastair Iain Johnston*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

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). No prior background in China or international relations theory required

*Note:* Expected to be given in 2000–01.

### ***Cross-listed Courses***



**[Historical Study A-51. The Modern World Economy, 1873–1998]  
[Moral Reasoning 28. Ethics and International Relations ]**

*Primarily for Graduates*

**\*Government 2710. International Relations: Field Seminar**

Catalog Number: 8310

*Lisa L. Martin and Celeste Wallander*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A survey of the field. Suitable for students preparing for general examinations.

**\*Government 2720. The Politics of International Monetary and Financial Relations**

Catalog Number: 5442

*Jeffry Frieden*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

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.

**[Government 2721. Political Psychology and International Relations]**

Catalog Number: 5404

*Stephen Peter Rosen*

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

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.

*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School as ISP-303.

**Government 2726. The Use of Force: Political and Moral Criteria**

Catalog Number: 7160

*Stanley Hoffmann and J. Bryan Hehir (Divinity School)*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

This seminar will examine normative discourse about the use of force. Primary attention will be paid analytically and historically to the “Just-War/Just-Defense” ethic. Readings and lectures will assess the ethic in light of challenges to it from the tradition of non-violence and from the nature of modern warfare. The Just-War ethic will then be assessed in light of three cases: nuclear strategy, hi-tech conventional war, and interventions.

*Note:* Open to qualified undergraduates. Offered jointly with the Divinity School as 2853, and with the Kennedy School of Government as ISP-340. Meets at FAS.

**Government 2732. Critical Perspectives on Critical IR Theory**

Catalog Number: 0725

*Alastair Iain Johnston*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Introduction to constructivist, critical, and feminist IR theory. Focus is on how one does



empirical work setting out from these perspectives and what, if anything, is new about the research that has been produced so far. Prior training in IR theory strongly recommended.

**\*Government 2755. International Political Economy**

Catalog Number: 7392

*J. Lawrence Broz*

*Half course (spring term). M., 12–2. EXAM GROUP: 5, 6*

A graduate-level introduction to the theoretical and empirical literature on the political economy of international trade, monetary, regulatory, investment and environmental 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. This course examines 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 2000–01.

**\*Government 2784 (formerly Government 2788.). Global Politics in the Post-Cold War World**

Catalog Number: 1915

*Samuel P. Huntington*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Reviews the emerging patterns of conflict in post-Cold War global politics, focusing on the relations among the major powers, the roles of economic, military, and “soft” power, weapons proliferation, and ethnic conflicts. An effort will be made to evaluate to what extent post-Cold War global politics can be explained by such theories as neo-realism, the end of history, economic integration, transnationalism, and the clash of civilizations.

*Note:* Open to qualified undergraduates.

**[Government 2790. Central Issues of American Foreign Policy]**

Catalog Number: 3567

*Graham T. Allison, Jr. (Kennedy School) and Robert D. Blackwill (Kennedy School)*

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

Examination of central issues of American foreign policy today. What developments pose principal challenges and opportunities for US policy? What are priority US national interests? In foreign policymaking, how are national, domestic, and bureaucratic interests and perspectives adjudicated and amalgamated? For a dozen central issues at the top of the post-Cold War agenda, analysis of the international environment, identification specific policy options, consideration of pros and cons, reflection on processes for choice and action. Course seeks to combine operational assignments and conceptual/theoretical writings that help clarify choices. Students both learn about current issues and how to analyze issues and present them in option memos.

*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School of Government



as ISP-202. For this year only, students who plan to take this course must cross-register under the Kennedy School number, ISP-202.

**[Government 2791. Comparative Foreign and Security Policy]**

Catalog Number: 0588

*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. Prior training in IR theory strongly recommended.

*Note:* Expected to be given in 2000–01.

**Government 2797. International Security**

Catalog Number: 4029

*Paul A. Papayoanou (University of California, San Diego)*

*Half course (spring term). Th., 12–2. EXAM GROUP: 14, 15*

This seminar reviews major theoretical approaches in security studies and examines important substantive issues in the field. It covers the traditional theoretical literature in security studies—such as that on arms races, the security dilemma and the offense-defense balance, civil-military relations, deterrence, and the balance of power—as well as political economic and (advanced) game-theoretic approaches. The course also grounds theoretical discussions with analysis of important empirical issues—particularly the two world wars and the Cold War—to give students an understanding of some of the most prominent historical issues in the political science literature and of the historiography of the 20th-century great-power system. The seminar is centered around four themes in particular: linking theory and history; the links between domestic and international politics; the relationship between economic and security factors; and the use of a strategic logic and/or game theory.

**Government 2886. The International Relations of Post-Soviet States**

Catalog Number: 0811

*Celeste Wallander*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

The course is a survey of the theoretical approaches to the study of Soviet foreign policy, which will cover approximately half the semester. In the second half of the course, we will assess those theories, as well as approaches from international relations studies, for their value in understanding continuity and change in the foreign policies of the Soviet successor states.

**\*Government 2900. U.S.–Latin American Relations**

Catalog Number: 8020

*Jorge I. Domínguez*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

A study of political and economic relations between the U.S. and Latin American countries, and of the international relations of Latin America, since 1945. Attention also given to foreign policy decision making in the U.S. and Latin America, and to alternative approaches to the study of



international relations and foreign policy.

*Note:* Expected to be omitted in 2000–01.

### **Government 2910. Brazil's Foreign Policy in the Post-Cold War**

Catalog Number: 1237

*Monica E. S. Hirst (FLACSO-Buenos Aires)*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Analysis of the interaction between domestic interest and international pressures in Brazil's current foreign policy. Provides an overview of Brazil's main course of action in 20th-century international affairs. Focuses upon current economic and political challenges for Brazil in global and regional affairs. Explores the influence of state and non-state actors in the shaping of the Brazilian national agenda. Focuses on Brazil's approach toward specific topics such as environmental and human rights diplomacy, multilateralism, regional integration, and international security.

### ***Graduate Courses of Reading and Research***

#### **\*Government 3000. Reading and Research**

Catalog Number: 3391

*Roderick MacFarquhar 7856, Alberto F. Alesina 2074, James E. Alt 1593, Robert H. Bates 1251, Eva Bellin 3446, Seyla Benhabib 3447, Ted Brader 2518, J. Lawrence Broz 3212, Barry C. Burden 2524, Marc L. Busch 1252 (on leave 1999-00), Keith J. Bybee 1253 (on leave spring term), Andrea L. Campbell 2508, Timothy J. Colton 2269, Kurt Dassel 3678 (spring term only), Matthew J. Dickinson 3448 (on leave spring term), Jorge I. Domínguez 3823, Grzegorz Ekiert 2718, Thomas Ertman 2422, Jeffry Frieden 1627 (on leave spring term), William W. Grimes (Boston University) 2335 (spring term only), Merilee Grindle (Kennedy School) 1981, Peter A. Hall 7272, Yoshiko M. Herrera 1622, Monica E. S. Hirst (FLACSO-Buenos Aires) 2545 (spring term only), Stanley Hoffmann 1757, Istvan Hont (Cambridge University) 2546 (fall term only), Samuel P. Huntington 1765, Torben Iversen 1250 (on leave 1999-00), Alastair Iain Johnston 3213, Michael Jones-Correa 1257 (on leave spring term), Devesh Kapur 3071 (on leave spring term), Gary King 1723, Steven R. Levitsky 2395, Harvey C. Mansfield 1731, Lisa L. Martin 1048 (on leave spring term), Pierre Martin (Université de Montréal) 2559, Pratap Bhanu Mehta 3211, Andrew Moravcsik 2937 (on leave fall term), Glyn Morgan 2184, J. Russell Muirhead 1012, Paul A. Papayoanou (University of California, San Diego) 2429, Elizabeth J. Perry 3074, Paul E. Peterson 2114 (on leave 1999-00), Susan J. Pharr 1518, Paul Pierson 2075 (on leave fall term), Robert D. Putnam 6193, Louise M. Richardson 2272, Stephen Peter Rosen 2721 (on leave fall term), Michael J. Sandel 7065, Edward P. Schwartz 3215, Jasjeet Singh Sekhon 2244 (on leave spring term), Kenneth A. Shepsle 1421, Theda Skocpol 1387, Richard Sobel 2449 (fall term only), Dennis F. Thompson 1426, Richard Tuck 1704, Sidney Verba 4072, and Celeste Wallander 2369*

*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

*Michael Jones-Correa 1257 (on leave spring term), David M. Hart (Kennedy School) 3070, and Theda Skocpol 1387*

*Full course (indivisible). M., 4–6.*

A forum for the presentation and discussion of research in progress by graduate students (2nd year and above), faculty, and visiting scholars. Anyone working on contemporary American politics or on U.S. political development is welcome. Occasional presentations by invited speakers.

**[\*Government 3005a. Research Workshop in International Relations: Comparative and International Political Economy]**

Catalog Number: 1934

*Jeffry Frieden 1627 (on leave spring term), Peter A. Hall 7272, Lisa L. Martin 1048 (on leave spring term), and Steven Vogel 1766*

*Full course (indivisible). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

**[\*Government 3005b. Research Workshop in International Relations: New Approaches to Security Studies]**

Catalog Number: 1016

*Kurt Dassel 3678 (spring term only) and Stephen Peter Rosen 2721 (on leave fall term)*

*Full course (indivisible). Hours to be arranged.*

Research workshop for advanced graduate students working on dissertation proposals in security studies.

*Note:* Expected to be given in 2000–01.

**\*Government 3006. Research Workshop in Comparative Politics: The Performance of Democracies**

Catalog Number: 0910

*Susan J. Pharr 1518, Eva Bellin 3446, Robert D. Putnam 6193, and Theda Skocpol 1387*

*Full course (indivisible). W., 4–6.*

This advanced workshop will focus on problems of democracy and democratization, broadly defined, including both American and comparative cases. Participants will discuss recent examples of research from a range of methodological traditions and will present their own work-in-progress. Students at all stages of the research process, from preliminary prospectus drafting to thesis completion, are welcome.



**\*Government 3007. Research Workshop in Positive Political Economy**

Catalog Number: 0968

*James E. Alt 1593, Robert H. Bates 1251, Yoshiko M. Herrera 1622, Sylvia Maxfield 2560, Edward P. Schwartz 3215, and Kenneth A. Shepsle 1421*

*Full course (indivisible). W., 4–6.*

**\*Government 3008. Research Workshop in Political Theory**

Catalog Number: 1704

*Harvey C. Mansfield 1731 and members of the Department*

*Full course (indivisible). Th., 4–6.*

**\*Government 3009. Research Workshop in Applied Statistics**

Catalog Number: 8142

*Gary King 1723, John Barnard 1916, Jasjeet Singh Sekhon 2244 (on leave spring term), 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 Higher Degrees in Health Policy*

Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*) (*Chair, fall term*)

Allan M. Brandt, Professor of the History of Science (*FAS*) and Amalie Moses Kass Professor of the History of Medicine (*Medical School*)

David M. Cutler, Professor of Economics (*Acting Chair, spring term*)

Troyen A. Brennan, Professor of Law and Public Health (*Public Health, Medical School*)

Robert J. Blendon, Professor of Health Policy and Political Analysis (*Public Health, Kennedy School*)

Paul D. Cleary, Professor of Medical Sociology (*Medical School*)

Arnold M. Epstein, Professor of Health Policy and Management (*Public Health*) and Professor of Health Care Policy (*Medical School*)

Richard G. Frank, Professor of Health Economics (*Medical School*)

John D. Graham, Professor of Policy and Decision Sciences (*Public Health*)

Jerry R. Green, John Leverett Professor in the University and the David A. Wells Professor of



## Political Economy

James K. Hammitt, Associate Professor of Economics and Decision Sciences (*Public Health*)

Gary King, Professor of Government

Arthur Kleinman, Professor of Medical Anthropology in the Faculties of Medicine and Arts and Sciences

Peter V. Marsden, Professor of Sociology

Marie C. McCormick, Professor of Pediatrics (*Medical School*) and Sumner and Esther FeldbergProfessor of Maternal and Child Health (*Public Health*)Barbara J. McNeil, Ridley Watts Professor of Health Care Policy and Professor of Radiology (*Medical School*)

Carl N. Morris, Professor of Statistics

Paul Pierson, Professor of Government (*on leave fall term*)Donald B. Rubin, Professor of Statistics (*on leave spring term*)F. Michael Scherer, Larson Professor of Public Policy and Management (*Kennedy School*)

Theda Skocpol, Victor S. Thomas Professor of Government and of Sociology

Stephen B. Soumerai, Professor of Ambulatory Care and Prevention (*Medical School*)B. Katherine Swartz, Associate Professor of Health Policy and Management (*Public Health*)

Sidney Verba, Carl H. Pforzheimer University Professor

Milton C. Weinstein, Henry J. Kaiser Professor of Health Policy and Management and

Biostatistics (*Public Health*) and Professor of Medicine (*Medical School*)Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy (*Kennedy School*)

The Ph.D. in Health Policy, awarded by the Faculty of Arts and Sciences, draws upon the resources of four faculties: The Graduate School of Arts and Sciences, the School of Public Health, the Medical School, and the John F. Kennedy School of Government. This degree is intended primarily for students seeking teaching careers in institutes of higher learning and/or research careers in policy.

Students in the Ph.D. Program in Health Policy choose a concentration and meet specific curriculum requirements in one of six disciplines: decision sciences, economics, ethics, organizational behavior, political analysis, or statistics and evaluative science. In addition to choosing a concentration, students specialize in one of four areas of policy interest: environmental health, health care services, 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 Allan M. Brandt, Chair)** The ethics concentration integrates quantitative and qualitative approaches to the analysis of ethical issues in health policy and clinical practice. Students in this track will focus on developing skills in a range of disciplines, with the goal of evaluating, through empirically-based research, how moral, ethical, and socio-cultural values shape health policies as well as clinical practices.

**Organizational Behavior (Professor Paul D. Cleary, Chair).** There is growing recognition that the way hospitals and physicians are organized and managed can have important effects of the efficiency and quality of care provided. This concentration focuses on learning more about organizational theories and how to assess the impact of organizational structures and arrangements of the quality of medical 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.

**Statistics and Evaluative Science (Professors Barbara J. McNeil and Associate Professor Stephen B. Soumerai, Co-chairs).** The concentration in statistics and evaluative science includes statistics and probability, and quantitative methods in biometry, economics, epidemiology, psychology, and sociology. This training enables students to design experiments and surveys, to perform health outcome assessment studies, to develop statistical models and analyses to evaluate these studies, and to make statistical inferences from observational data sets that arise from health policy and medical care processes. This concentration prepares students to evaluate alternative policy options in health care.

**Applications:** The application deadline is late 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 ([adm@hugas.harvard.edu](mailto:adm@hugas.harvard.edu)). Important additional information on financial aid and other aspects of the Ph.D. Program in Health Policy is available from Joan P. Curhan, Director, Ph.D. Program in Health Policy, 79 John F. Kennedy Street, Cambridge, MA 02138—*joan—curhan@harvard.edu* or (617) 496-5412. Website: <http://www.fas.harvard.edu/~healthpl>

***Primarily for Graduates***

**[Health Policy 2000 \(formerly Health Policy 2000hf\). Core Seminar in Health Policy](#)**

Catalog Number: 4522



*David M. Cutler, Richard G. Frank (Medical School), and Joseph P. Newhouse*  
*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 of Government as HCP-597 and HCP-598.

**[Health Policy 2001. Organizational Analysis and Health Care]**

Catalog Number: 4419

*Paul D. Cleary (Medical School) and Joseph P. Newhouse*

*Full course (spring term). Hours to be arranged.*

The main purpose of the seminar will be to help students to use the theories and models of organizational analysis to understand better: (1) the public policy implications of the way health care is organized and delivered, and (2) the organizational determinants of individual and group behavior within formal health and medical organizations. To do this, we will draw upon theoretical and empirical work done in various disciplines including sociology, psychology, economics, and business administration. The seminar will consist of presentations of potential and ongoing research by graduate students, presentations by guest speakers, and class discussions of theoretical or substantive topics by seminar participants.

*Note:* Expected to be given in 2000–01. Offered jointly with the Kennedy School of Government as HCP-274.

**Health Policy 3000. Doctoral Dissertation Research**

Catalog Number: 8422

*Members of the Committee on Higher Degrees in Health Policy*

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

Dissertation research.

**\*Health Policy 3002. Graduate Reading Course: Mental Health Policy**

Catalog Number: 3528

*Richard G. Frank (Medical School) 1371 and Joseph P. Newhouse 2425*

*Half course (throughout the year). Hours to be arranged.*

**\*Health Policy 3010. Graduate Reading Course: Ethics**

Catalog Number: 9241

*Allan M. Brandt 3031*

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

**\*Health Policy 3020. Graduate Reading Course: Political Analysis**

Catalog Number: 3781

*Robert J. Blendon 2712*

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

The purpose of this research seminar is to provide a forum for the presentation and discussion of research concerning the politics surrounding health policy and problems. Participants will



discuss recent examples of research from a range of methodological approaches and will present their own work-in-progress. Graduate students, faculty, and visiting scholars are welcome to present research at all stages of the research process. Occasionally, speakers will be invited to present.

**\*Health Policy 3030. Graduate Reading Course: Organizational Behavior**

Catalog Number: 1826

*Paul D. Cleary (Medical School) 2713 (fall term only)*

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

***Cross-listed Courses***

[Economics 2910. Topics in Health Economics: Seminar](#)  
[General Education 186. Introduction to Health Care Policy](#)  
[\\*Pforzheimer 123. The Quality of Health Care in America](#)  
[Quantitative Reasoning 24. Health Economics](#)

For a copy of “A Course Guide for Undergraduates Interested in Health Policy, Harvard University,” please contact Joan Curhan, Administrative Director, Interfaculty Initiative in Health Policy at : joan—curhan@harvard.edu

## History

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of History***

William C. Kirby, Edith and Benjamin Geisinger Professor of History (*Chair*)

Emmanuel K. Akyeampong, Hugh K. Foster Associate Professor of African Studies

David Blackburn, Coolidge Professor of History (*on leave fall term*)

Sven Beckert, Assistant Professor of History (*on leave 1999-00*)

Thomas N. Bisson, Henry Charles Lea Professor of Medieval History

Ann M. Blair, John L. Loeb Associate Professor of the Social Sciences

Daniel V. Botsman, Assistant Professor of History

John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs (*on leave spring term*)

Lizabeth Cohen, Howard Mumford Jones Professor of American Studies (*Head Tutor*)

Jeffrey Randall Collins, Lecturer on History

Catherine A. Corman, Assistant Professor of History (*on leave fall term*)

Julia C. Devlin, Visiting Lecturer on History



Brendan Dooley, Associate Professor of History and of Social Studies  
Ruth Feldstein, Assistant Professor of History and of History and Literature  
Brett Flehinger, Lecturer on History  
Donald Fleming, Jonathan Trumbull Professor of American History (*on leave 1999-00*)  
William E. Gienapp, Professor of History  
Andrew Gordon, Professor of History  
James Hankins, Professor of History  
Maura A. Henry, Lecturer on History (*Assistant Head Tutor*)  
Evelyn Brooks Higginbotham, Professor of History and of Afro-American Studies (*on leave 1999-00*)  
Patrice Higonnet, Robert Walton Goelet Professor of French History  
Kristin Lee Hoganson, Assistant Professor of History and of History and Literature (*on leave 1999-00*)  
Akira Iriye, Charles Warren Professor of American History  
Christopher P. Jones, George Martin Lane Professor of the Classics and of History  
Cemal Kafadar, Vehbi Koc Professor of Turkish Studies  
Edward L. Keenan, Andrew W. Mellon Professor of History  
Mark A. Kishlansky, Frank B. Baird, Jr. Professor of History  
James T. Kloppenberg, Professor of History (*on leave spring term*)  
Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations  
Angeliki E. Laiou, Dumbarton Oaks Professor of Byzantine History (*on leave fall term*)  
Matthew E. Lenoë, Visiting Assistant Professor of History  
Eric Lohr, Assistant Professor of History, Post-Doctoral Fellow in the Davis Center for Russian Studies  
Charles S. Maier, Krupp Foundation Professor of European Studies  
Jane Erin Mangan, Assistant Professor of History  
Terry D. Martin, Assistant Professor of History (*on leave 1999-00*)  
Ernest R. May, Charles Warren Professor of American History  
Sucheta Mazumdar, Visiting Associate Professor of History  
Michael McCormick, Professor of History  
Lisa M. McGirr, Assistant Professor of History  
Rebecca Mary McLennan, Assistant Professor of History and of Social Studies  
Louis Miller, Assistant Professor of History and of Social Studies  
Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)  
Elisabeth B. Nichols, Lecturer on History (*fall term only*)  
Edward Roger Owen, A. J. Meyer Professor of Middle East History and Director of the Center for Middle Eastern Studies (*on leave fall term*)  
Steven Ozment, McLean Professor of Ancient and Modern History  
Susan Pedersen, Professor of History  
Eric W. Robinson, Assistant Professor of the Classics and of History  
Roman Szporluk, Mykhailo Hrushevs'kyi Professor of Ukrainian History and Director of the Ukrainian Research Institute  
Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History  
Stephan Thernstrom, Winthrop Professor of History  
Oleksiy Tolochko, Visiting Associate Professor of History



Oleksij Tolochko, Visiting Associate Professor of History  
Laurel Thatcher Ulrich, Professor of History and Director of the Charles Warren Center for Studies in American History  
John Womack, Jr., Robert Woods Bliss Professor of Latin American History and Economics  
Diana Wylie, Visiting Associate Professor of History

***Other Faculty Offering Instruction in the Department of History***

Bernard Bailyn, Adams University Professor and James Duncan Phillips Professor of Early American History, Emeritus  
Peter K. Bol, Harvard College Professor and Professor of Chinese History (*on leave spring term*)  
Harold Bolitho, Professor of Japanese History  
Albert M. Craig, Harvard-Yenching Professor of History, Emeritus  
Charles Donahue, Jr., Professor of Law (*Law School*)  
Carter J. Eckert, Professor of Korean History, Director of the Korea Institute  
William L. Fash, Bowditch Professor of Central American and Mexican Archaeology and Ethnology  
Henry Louis Gates, Jr., W.E.B DuBois Professor of the Humanities  
Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*on leave fall term*)  
Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor  
Morton J. Horwitz, Charles Warren Professor of American Legal History (*Law School*)  
Patricia C. Lynch, Lecturer on History and Literature  
Muhsin S. Mahdi, James Richard Jewett Professor of Arabic  
Thomas K. McCraw, Isidor Straus Professor of Business History (*Business School*)  
John E. Murdoch, Professor of the History of Science  
Richard Pipes, Frank B. Baird, Jr. Professor of History, Emeritus  
Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization  
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

1101–1289 Medieval History

1300–1599 Modern Europe

1600–1729 United States

1730–1799 Canada and Latin America

1800–1929 Asia, Africa, and Australasia

1930–1999 Comparative History and Historiography



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.

The fact that attention is called to courses offered in other departments does not necessarily mean that such courses may be counted for undergraduate concentration in History. A full list of courses that may be counted for concentration is available in the Office of the Head Tutor, as well as a list of areas to which specific courses have been assigned for distribution.

### ***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

*Lizabeth Cohen and members of the Department*

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

*Note:* Open only 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. May not count for either concentration or distribution in History.

### ***Tutorials in History***

#### **\*History 97. Sophomore Tutorial**

Catalog Number: 4469

*Mark A. Kishlansky, Ruth Feldstein, and Maura A. Henry*

*Half course (fall term). Tu., through Th., 10-12, or 2-4.*

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 98a (formerly History 98). Honors Research Seminar**

Catalog Number: 3556

*Michael McCormick and staff*

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

Methods of historical research and writing.

*Note:* Required of, and ordinarily limited to, honors juniors concentrating in History.

*Prerequisite:* Admission to the honors program in History.

#### **\*History 98b. Honors Field Tutorial**

Catalog Number: 6063

*History Tutors*



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

Guided research and writing of a junior paper.

*Note:* Required of, and limited to, honors juniors concentrating in History.

*Prerequisite:* Admission to the honors program in History.

### **\*History 99. Tutorial — Senior Year**

Catalog Number: 5803

*Lizabeth Cohen and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Required of, and ordinarily limited to, honors seniors concentrating in History. Research and writing the senior honors essay 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. A student wishing to drop History 99 with credit at midyear must get the consent of the Head Tutor and submit a substantial paper on which final credit can be based. A student who remains in the course in the second half year, but fails to submit an honors thesis when due, must, if desiring credit for the full course, submit a more substantial paper, ordinarily due not later than the day before the spring term Reading Period begins.

*Prerequisite:* History 98 and recommendation of the 98 tutor.

### ***History 90. Historiography Seminars***

These half-courses are limited to 15 participants. All History concentrators are required to take the History 90 in their field, ordinarily in the spring of their sophomore year. 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

*Thomas N. Bisson*

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

Designed in collaboration with students to introduce research topics while complementing other courses. Themes typically include power and society, work, sanctity, gender, learning, theology, crusading, and personality. Stress on views and confusions of modern historians.

#### **\*History 90b. Major Themes in Early Modern European History**

Catalog Number: 1833

*Maura A. Henry*

*Half course (spring term). W., 2–4.*

An overview of the main issues of early modern historiography.

#### **\*History 90c. Major Themes in Modern European History**

Catalog Number: 5303

*Charles S. Maier*

*Half course (spring term). W., 2–4.*

Discusses major themes in Modern European history.



**\*History 90d. Major Themes in Western Intellectual History**

Catalog Number: 4955

*Louis Miller*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Major questions of substance and approach in the study of Western intellectual history will be explored through some secondary and many primary readings grouped around the following themes: the definition of the Enlightenment; a question in intellectual biography; and theories of education from Locke to Dewey.

**\*History 90e. Major Themes in American Historical Writing**

Catalog Number: 4577

*Elisabeth B. Nichols and Brett Flehinger*

*Half course (spring term). M., 3–5.*

An examination of critical themes in American historical writing from the late 19th 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 U.S. history. Among the themes explored will be the frontier, the origins of the American Revolution, labor in the ante-bellum period, and the legacies of the Cold War.

**\*History 90f. International Relations**

Catalog Number: 4422

*Akira Iriye*

*Half course (spring term). Th., 2–4.*

Major themes in modern international history.

**\*History 90h. Major Themes in Comparative North American and Latin American History: Culture, Class, and Politics**

Catalog Number: 4232

*John Womack, Jr.*

*Half course (spring term). M., 3–5.*

A broad introduction to the different ways in which culture, class, and politics have historically happened in North America (British and French, eventually Canada and the U.S.) and Latin America.

***Introductory Courses***

***Primarily for Undergraduates***

**History 10a. Western Societies, Politics, and Cultures: From Antiquity to 1650**

Catalog Number: 0213

*James Hankins and Eric W. Robinson*

*Half course (fall term). M., W., (F.), at 12, plus a discussion section to be arranged. 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 entering the concentration after July of 1995, but open to all students.

**History 10b. Western Societies, Politics, and Cultures: From 1650 to the Present**

Catalog Number: 0262

*Susan Pedersen*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Second half of a survey of European history from the first cities and empires to modern times. Also treats some major aspects of the history of the Americas insofar as they form part of overarching Western developments. Topics include absolute monarchy and enlightened despotism; the Enlightenment and age of revolutions; industrialization and nation building; imperialism and the world wars; cultural and social change; the rise and fall of totalitarian regimes.

*Note:* Required of all history concentrators entering the concentration after July of 1995, but open to all students.

**History 71a. America: Colonial Times to the Civil War**

Catalog Number: 6647

*Elisabeth B. Nichols*

*Half course (fall term). M., W., at 11, plus one hour to be arranged. EXAM GROUP: 4*

Covers American history from the period of colonial settlement to the Civil War. Major political, social, economic, and cultural developments are examined. Readings emphasize an analysis of primary documents and an introduction to differing historical interpretations.

**History 71b. Modern America, 1865 to Present**

Catalog Number: 7671

*Brett Flehinger*

*Half course (spring term). M., W., (F.), at 12, plus one hour to be arranged. EXAM GROUP: 5*

An introduction to American history from the end of the Civil War to modern times, paying particular attention to the question of how the U.S. turned into the world's leading economic and military power. Topics will include the reconstruction of the U.S. after the Civil War, the economic and social effects of the Second Industrial Revolution, the crisis of the 1930s and the expansion of the federal state, the global conflicts of the 20th century as well as the struggles of women and African-Americans for equality.

*Note:* Directly follows History 71a, but may be taken independently.

***Ancient History***

***For Undergraduates and Graduates***

See also Classical Archaeology 180 and 181.

**History 1071. Introduction to Greek History**

Catalog Number: 6112

*Eric W. Robinson*

*Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5*



An introduction to Greek political, military, social, and cultural history from the Bronze Age to the death of Alexander the Great.

**History 1085. The Roman Empire, Augustus to Constantine**

Catalog Number: 3109

*Christopher P. Jones*

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

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.

*Note:* Given in alternate years.

**[History 1088. The Mediterranean, Alexander to Antony]**

Catalog Number: 1619

*Christopher P. Jones*

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

Follows the history of the Mediterranean from the reign of Alexander the Great to the battle of Actium, including the establishment of the Successor Kingdoms after Alexander's death, and their gradual decline under internal and external pressures; the interaction between the growing power of Rome and other Mediterranean states, especially Carthage; and the transformation of the Mediterranean into a Roman lake in the last two centuries B.C.E. 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 2000–01. Given in alternate years.

**[History 1090. History of Jews and Judaism in the Ancient World]**

Catalog Number: 1882

*Jay M. Harris*

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

A study of the Jews and their religious traditions from the 5th century B.C.E. until the end of the 2nd century C.E. Focus on Jewish history in the Persian period, the encounter with Hellenism, the confrontations with Rome, Jewish sectarianism, and the rise of rabbinic Judaism.

*Note:* Expected to be given in 2000–01. Not open to students who have taken History 1091.

***Cross-listed Courses***

**Classics 140. The Fall of the Roman Republic**

**Latin 115. Tacitus**

***Primarily for Graduates***

A special program with Brown University opens courses in ancient history at Brown to any graduate student enrolled at Harvard.

***Medieval and Renaissance History***



***For Undergraduates and Graduates***

See also Committee on Medieval Studies. Students are also directed to Divinity School course #2283, The Image as Historical Evidence.

**[History 1101. Medieval Europe]**

Catalog Number: 4278

*Thomas N. Bisson*

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

The formation of a European civilization from the conversion of Constantine to the 15th century, Germanic settlements; Carolingian order; power, violence; salvation, crusades, heresy; peasants, knights, gender; monks, friars, a saint-king; schism, the Hundred Years' War. Stress on France, Germany, Italy and Spain.

*Note:* Expected to be given in 2000–01. Given in alternate years. Students prepared to pursue special topics can be accommodated.

**[History 1111. World of Late Antiquity](#)**

Catalog Number: 6019

*Michael McCormick*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Studies the changes, violent or subtle, that transformed the late Roman world—the fall of the Roman Empire—to produce medieval civilization between ca. 300 and 700. Topics include the imperial meritocracy; Constantine's conversion; the coming of the barbarians; sports, propaganda, and political belief; women and power. Emphasizes reading of primary texts in translation.

**[History 1133. Medieval England (ca. 871–1485)]**

Catalog Number: 7756

*Thomas N. Bisson*

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

English (and other insular) societies, cultures, and institutions from Anglo-Saxon times to the accession of the Tudors. Stress on the Norman conquest and its social consequences, constitutional innovation and the crisis of Magna Carta, the formation of political culture and the origins of Parliament, and economic change, agrarian disorder, culture, and war in the later Middle Ages.

*Note:* Expected to be given in 2000–01. Given in alternate years. Normally alternates with Medieval Studies 117.

**[History 1136. Romanesque Southern France \(800-1250\)](#)**

Catalog Number: 0563

*Thomas N. Bisson*

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

The rise, collapse, and significance of a distinctive medieval civilization. From prosperity to crisis in Provence, Toulouse, and Aquitaine; the rise of Catalonia to Mediterranean hegemony. Stress on power, faith, and Romanesque cultures (stone and song); interfaith encounter; and mercantile-urban transformation. Input from colleagues in Art, Music, Romance Languages, Jewish Studies.



**History 1141. Medieval Thought: Conference Course**

Catalog Number: 5096

*James Hankins*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Intellectual history of Western Latin Christendom from the 5th to the 14th century of our era.

*Prerequisite:* One course in medieval history or the equivalent.

**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.

*Note:* Combines material from former courses, History 1151 and 1152. Offered jointly with the Divinity School as 3675.

**History 1166. The West European Family, 1300–1700: Conference Course**

Catalog Number: 2725 Enrollment: Limited to 15, with equal access to upperclass concentrators and beginning graduate students.

*Steven Ozment*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Reading and discussion of major studies and sources illustrative of the development of family life in late medieval and early modern Europe. Attention given to a variety of national traditions and to major historiographical controversies.

*Note:* May be taken for seminar credit by graduate students.

**[History 1211a. Byzantine Civilization 330–1000]**

Catalog Number: 7989 Enrollment: Limited to undergraduates.

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

Surveys Byzantine history from the foundation of Constantinople in 330 to the end of the Iconoclast controversy and the establishment of the Macedonian dynasty in the later 9th century.

Readings focus on doctrinal controversies, the Byzantine saint, the reconstruction of the empire in the 7th century, and foreign relations, as well as art and culture.

*Note:* Expected to be given in 2000–01.

**[History 1211b. Byzantine Civilization 900–1453]**

Catalog Number: 4135 Enrollment: Limited to undergraduates.

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

Continues the survey of the Byzantine Empire, covering Byzantine history from the 10th to the 15th century. Topics include the 10th-century renaissance of Byzantine culture, changes in Byzantine society during the 11th century, the encounter with the Crusades and the Italian maritime states, the loss and fragmentation of the empire in the 13th century, and the erosion of



the Byzantine state before the Turks during the 14th century. Readings concentrate on Byzantine diplomacy, the aristocracy, urban and rural life, the economy, art, and literature.

*Note:* Expected to be given in 2000–01.

**History 1212. The Imperial System: Byzantine Society and Civilization, 8thc.-1204: Conference Course**

Catalog Number: 6078

*Angeliki E. Laiou*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

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).

**History 1319. Mind and Money: Culture and the Marketplace from Renaissance to Modern**

Catalog Number: 9322

*Brendan Dooley*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

An examination of how economic structures shaped cultural creativity across the centuries. Topics include Michelangelo's relations with his patrons, Hogarth's relations with his public, Galileo's effort to widen the audience for science, to early 18th century efforts to turn science into a public spectacle. Will examine how intellectual and artistic elites have responded to and modified their works in accord with changing demand.

**[History 1353 (formerly History 1251 and 1551). Medieval and Early Modern Russia]**

Catalog Number: 5173

*Half course (spring term).*

A survey of Muscovite history, 1400–1700, with appropriate attention to Kievan and Mongol periods.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

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

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

**Historical Study B-18. The Protestant Reformation**

**[Historical Study B-19. The Renaissance in Florence]**

**Medieval Studies 101 (formerly History 2277). The Auxiliary Disciplines of Medieval History: Proseminar**

**[Medieval Studies 117. Constitutional and Legal History of Medieval England]**

***Primarily for Graduates***



**History 2101. Medieval Societies and Cultures: Proseminar**

Catalog Number: 6693

*Thomas N. Bisson*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

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. It is prerequisite to History 2122 or 2124. Sometimes alternates with Medieval Studies 101.

*Prerequisite:* A reading knowledge of French and/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 from the death of Justinian to the Arab conquest of Carthage (A.D. 698). Themes may include pilgrimage, the movement of disease and of ideas, the impact of Islam, the archaeology of commerce in this era. Meetings will include close philological and historical analysis of relevant Latin sources, and research papers by participants.

*Note:* Expected to be given in 2000–01. Latin, with either German or French, is required.

**\*History 2124. Medieval History: Seminar**

Catalog Number: 7820

*Thomas N. Bisson*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Research studies in the sources and problems of power, faith, and culture in the medieval west. Topic for 2000: When does the 12th century begin? Readings in narratives, charters, letters.

*Note:* Admission by advanced permission only.

*Prerequisite:* History 2101 or Medieval Studies 101; Latin and French or German.

**History 2126. Medieval Law**

Catalog Number: 3140

*Charles Donahue, Jr. (Law School)*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

A reading course focused alternately on the English legal tradition (normally jointly with Medieval Studies 117) and on the Roman-canonical tradition (normally jointly with Medieval Studies 119). Several short papers analyzing texts will be required but not a research paper.

Topics for 2000: the Roman-canonical tradition.

*Note:* Some Latin required.

**History 2271r. Topics in Byzantine History: Seminar**

Catalog Number: 3868

*Angeliki E. Laiou*



*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*  
Reading knowledge of Greek, French and/or German.

**[\\*History 2353 \(formerly History 2251\). Topics in Pre-Petrine History: Seminar](#)**

Catalog Number: 6526

*Edward L. Keenan*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

*Note:* Open to qualified undergraduates by permission of instructor.

*Prerequisite:* Reading knowledge of Russian; History 1353 or equivalent.

**[History 2375. Popular Culture in Renaissance and Reformation Europe (1350–1650)]**

Catalog Number: 3100

*Steven Ozment*

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

Research seminar requiring an original paper. Problems of method and sources will be discussed, as will selected monographic literature. For advanced students with some historical knowledge of the area of their paper and linguistic skills needed to master the sources.

*Note:* Expected to be given in 2000–01.

***Modern European History***

***For Undergraduates and Graduates***

**[History 1315. The Foundations of Modern Spain: Conference Course](#)**

Catalog Number: 8525

*Brendan Dooley*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

From the 16th century foundations of the Spanish Empire down to the modern debates about membership in the European Community, this course examines the main problems of Spanish civilization across four centuries in their scholarly context.

**[History 1318. History of the Book and of Reading]**

Catalog Number: 7410

*Ann M. Blair*

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

A general introduction to this new area of cultural history, centered on the book and its functions as both material object and text. Major themes to include the techniques of book production, authorship, popular and learned readership, libraries and censorship. Within its broad span from antiquity to cyberspace, the course will have a special focus on printing and developments in early modern Europe (notably in France, 16th to 18th centuries). Readings from primary and secondary sources, including St. Augustine, Montaigne, Balzac; Chartier, Darnton, and Foucault.

*Note:* Expected to be given in 2000–01.

**[History 1319. Mind and Money: Culture and the Marketplace from Renaissance to Modern](#)**

Catalog Number: 9322



*Brendan Dooley*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

An examination of how economic structures shaped cultural creativity across the centuries. Topics include Michelangelo's relations with his patrons, Hogarth's relations with his public, Galileo's effort to widen the audience for science, to early 18th century efforts to turn science into a public spectacle. Will examine how intellectual and artistic elites have responded to and modified their works in accord with changing demand.

**[History 1331 (formerly History 1413). Shakespeare's England 1550–1700]**

Catalog Number: 8877

*Mark A. Kishlansky*

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

Focuses on the social and economic history of Early Modern England. Topics include demography; agriculture; families; hierarchy, patriarchy, and gender; London and urbanization; the rural community; poverty; and law.

*Note:* Expected to be given in 2000–01. Two lectures per week and a mandatory discussion section. Discussions center on primary materials or historiographical controversies.

**History 1332. British History, 1688-1815**

Catalog Number: 0475

*Jeffrey Randall Collins*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

An introduction to British history from the Glorious Revolution through the victory over Napoleon. Topics will include the evolution of monarchy and the constitution; the rise and breakup of the first British Empire; war and the development of national identity; the English Enlightenment; and cultural developments such as the "sentimental revolution".

**History 1333. The Glorious Revolution: Conference Course**

Catalog Number: 5063

*Jeffrey Randall Collins*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

An exploration of the political and intellectual history of the Glorious Revolution, examining its origins in the English Civil War and Restoration, its political consequences, and its intellectual legacy within the history of Anglo-American political thought.

**[History 1335 (formerly History 1409). England in the 17th Century, 1603–1689]**

Catalog Number: 6018

*Mark A. Kishlansky*

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

Explores the political history of England from the reign of James I to the Revolution of 1689. Major topics include local government and the organization of local society; religious controversies; hierarchy and monarchy; the history of parliament; the origins and course of the English Revolution; the Restoration and the Revolution of 1688–89. Readings include works of the most significant modern historians as well as sources drawn from the rich writings of the period.

*Note:* Expected to be given in 2000–01.



**History 1355. Muscovy as Seen through Western Eyes: Travelers' Reports on Russia, 16th-17th Centuries: Conference Course**

Catalog Number: 6183

*Oleksiy Tolochko*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

An examination of how Muscovy of the 16th and 17th centuries was viewed by outsiders and how the traditional Western image of Russia was constructed. Reading and discussion of major sources, as well as studies illustrative of the development of Western knowledge of Muscovy.

**History 1356. The Russian Ruler: Man and Myth, Ivan the Terrible, and Peter the Great: Conference Course**

Catalog Number: 8773

*Oleksiy Tolochko*

*Half course (spring term). Th., 12–2. EXAM GROUP: 14, 15*

An examination of two of Russia's most important rulers and their significance in Russian culture, historical consciousness and political tradition. Readings include both primary sources and scholarly literature. The representation of the two rulers in historiography as well as their images in the literature and arts will be discussed.

**History 1357. The Emergence of Eastern Europe: Muscovy, The Grand Duchy of Lithuania and their Eastern Neighbors, 1300-1613**

Catalog Number: 0131

*Oleksiy Tolochko*

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

Major topics of Russian history from the beginnings of the Muscovite state to the election of the first Romanov tsar (1613). Special attention will be given to the broader East European context of Muscovite history, and will follow the development of events of the Muscovite past and examine Russian history as an intellectual construct.

**History 1358. Muscovites into Russians. Russian History from the Time of Troubles through the Partitions of Poland (1600-1795)**

Catalog Number: 7804

*Oleksiy Tolochko*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

A survey of Russian history, following the obscure oriental kingdom on the distant periphery of Europe to when it turned into a European power and entered the mainstream of European politics. Special emphasis will be placed on institutional and cultural change as Muscovy became Russia and Muscovites turned into Russians.

**History 1360 (formerly Women's Studies 128). Gender and Class in Jane Austen's England: An Interdisciplinary Approach Through History, Literature, and Film**

Catalog Number: 9134

*Maura A. Henry*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

An examination of the cultural attitudes, institutions, and social practices of England during the period of 1750-1850 through the lens of Jane Austen. Among the questions to be explored are:



How were gender and class defined? How did each function in society? How did Austen perceive and portray her world? The course is interdisciplinary in its approach, drawing on materials from history, Austen's novels, and Hollywood's recent adaptations.

**[History 1407a (formerly History 1341a). European Intellectual History, 1790 to 1900]**

Catalog Number: 1541

*Donald Fleming*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

Selected themes in the development of European thought, with special emphasis on the interplay of philosophy, religion, science, art, and literature.

*Note:* Expected to be given in 2000–01.

**[History 1407b (formerly History 1341b). European Intellectual History, 1900 to the Present]**

Catalog Number: 6618

*Donald Fleming*

*Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5*

*Note:* Expected to be given in 2000–01.

**History 1410. European Intellectuals and Society, 1789–1870**

Catalog Number: 3897

*Louis Miller*

*Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6*

Will explore intellectual responses to the reverberations of political and social upheaval in the indicated period. Segments will be devoted to Germany, France, and England, with special attention to the mutations of 'progressive' thought in each country. Authors read will include Condorcet, Kant, Hegel, Marx, Burke, Mill, the St. Simonians; and Tocqueville.

**History 1417 (formerly History 1329). Italy Since 1796**

Catalog Number: 8146

*Charles S. Maier*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Examines the emergence of politics and civil society in Italy from the stirrings of Enlightenment reform, the impact of the French revolution and Napoleon, the Risorgimento and unification of the successive liberal, fascist, and democratic regimes. Themes of importance include the condition of the peasantry and the Southern Question, economic development, Fascism, Communism, social movements and terrorism, and the current reorientation of political blocs.

**History 1431 (formerly History 1468). 19th-Century Britain**

Catalog Number: 3665

*Patricia C. Lynch*

*Half course (spring term). Tu., Th., at 10.*

British history from the Napoleonic Wars to the beginning of World War I. Major topics include political reform, industrial development and its social and economic consequences, changing attitudes toward gender and social class, and Britain's relationship with its colonies. Readings



will include primary texts by Carlyle, Engels, Mill, Nightingale, and Trollope, as well as a variety of works by modern historians.

**[History 1432 (formerly History 1401). 20th-Century Britain]**

Catalog Number: 0288

*Susan Pedersen*

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

British history from the Boer War through the Blair administration. Explores the source and nature of political change; the experience and impact of the two world wars; imperial rule and its aftermath; and social and cultural movements. Readings include works by H.G. Wells, E.M. Forster, George Orwell, and John Osborne. Occasional films accompany this course.

*Note:* Expected to be given in 2000–01.

**[History 1435. German Intellectual Life Between the Wars: Conference Course]**

Catalog Number: 3749

*Louis Miller*

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

Themes treated will include: responses to the German defeat in World War I; problems of political engagement in an age of the ‘decline of the West’; Jews and Germans; religious responses to epochal crisis; Nazism and intellectuals. Authors read will include Weber, Spengler, Karl Barth, Hannah Arendt, Franz Rosenzweig, Heidegger and others.

*Note:* Expected to be given in 2000–01.

**[History 1450. France 1500–1715](#)**

Catalog Number: 7575

*Ann M. Blair*

*Half course (spring term). M., W., (F.), at 12.*

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. All assignments in English, but interested students have the option of doing primary source readings in French.

**[History 1451 \(formerly History 1470\). 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 our own day.

**[History 1462. French Politics, History, and Culture From 1780–1871: Conference Course]**

Catalog Number: 1000

*Patrice Higonnet*

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



An examination of France's revolutionary traditions and their relationship to literature (Stael, Constant, Stendhal, Balzac, and Flaubert), French art (David, Delacroix, Manet), and French architecture (Ledoux, Viollet le Duc, Garnier).

*Note:* Expected to be given in 2000–01.

**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 (spring term). W., 1–3. EXAM GROUP: 6, 7*

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 1475 (formerly History 1501). History of 19th-Century Germany**

Catalog Number: 6919

*David Blackbourn*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Examines political, social, economic, and cultural history of Germany from ca. 1800 to 1914. Attention paid to the revolutions of 1848, unification under Bismarck, the role of the state, patterns of industrialization, the development of mass politics, and the coming of World War I.

**History 1480. World War I, Empires and Revolution: Conference Course**

Catalog Number: 1741

*Eric Lohr*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

An examination of the ways in which the war precipitated changes in society and contributed to the end of the old regimes in Central and East Europe.

**\*History 1491 (formerly \*History 1472). Religion and Popular Culture in 19th-Century Europe: Conference Course**

Catalog Number: 6681 Enrollment: Limited to 15

*David Blackbourn*

*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 the First World War. 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 1492 (formerly History 1345). Gender and the State in an Era of Mass War: Conference Course]**

Catalog Number: 3597

*Susan Pedersen*



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

Explores the impact of total war, technological innovation, and political change on gender relations in Western Europe between 1914 and the early fifties. Topics include the destabilization of gender relations in wartime; the cultural anxieties of aftermath; pronatalism, eugenics, and efforts to “rationalize” the domestic sphere; women’s identities, organizations, and lives under fascism and Nazism; policies toward the family in the postwar settlement. Readings cover Britain, France, Germany, and Italy.

*Note:* Expected to be given in 2000–01.

### **History 1493. The Radical Left in Industrialized Britain: Conference Course**

Catalog Number: 7549

*Patricia C. Lynch*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

An examination of some of the potential reasons for the absence of revolution in 19th century Britain, focusing on such themes as the development of class consciousness, differences between industrial and agrarian radicalism, the cultural meanings of ritualized protest and the relationship between popular protest and official party politics.

### **History 1502. Imperial Russia**

Catalog Number: 2440

*Eric Lohr*

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

Russian history from the accession of Peter the Great to the 1905 Revolution. Stress is placed on the gradual emergence of a free society in a political system that remained rigidly authoritarian, and on Russian imperialism. Intended to give a broad knowledge of major events and issues in Russian political, economic, military, and cultural history.

### **[History 1511 (formerly History 1537). 19th-Century Ukraine]**

Catalog Number: 3540

*Roman Szporluk*

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

Survey of the history of Ukraine from the end of the 18th century to 1905. Ukraine’s place in Russian, Polish, and Austrian history. The Ukrainian national awakening in a comparative perspective of national movements in 19th-century Europe.

*Note:* Expected to be given in 2000–01.

### **[History 1512 (formerly History 1541). 20th-Century Ukraine]**

Catalog Number: 6723

*Roman Szporluk*

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

What is Ukrainian history?—an introduction to main themes. Ukrainians in Russia and Austria-Hungary before 1914. Russian and Polish views of Ukraine: historical tradition and modern politics. The First World War and the Ukrainian Question; Ukraine in 1917–22. Ukraine in the U.S.S.R., 1922–39. Ukrainians in Poland, Czechoslovakia, and Romania. Ukraine in 1939–45. Postwar Stalinism. From Destalinization to Independence.

*Note:* Expected to be given in 2000–01.



**History 1515 (formerly History 1542). States and Nations: 1905-1991: Conference Course**

Catalog Number: 7550 Enrollment: Limited to 15

*Roman Szporluk*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

An introduction to theoretical literature concerning nationalism and communism, as well as to historical treatments of the states of Eastern Europe and Eurasia, with special attention to Russia, Ukraine and Belarus, as well as to the experience of Yugoslavia and Poland.

**History 1516. Nation Formation in East Europe, 1795-1921: Poland, Russia, Ukraine**

Catalog Number: 5843

*Roman Szporluk*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

An examination of the making and remaking of nations in East Europe, focusing on the three interrelated cases of Poland, Russia, and the Ukraine. This survey of intellectual and political history extends from the partitions of Poland by Russia, Austria, and Prussia to socialist and nationalist revolutions of 1917-1920 and the territorial and political settlement of 1919-1921.

**History 1531. History of the Soviet Union, 1917–1991**

Catalog Number: 4501

*Matthew E. Lenoe*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Examines the history of the Soviet Union from its establishment with the 1917 Russian Revolution through to its collapse after Gorbachev's unsuccessful reforms in 1991. Special attention will be devoted to the period of high Stalinism (1928-53), when the abolition of the market, nationalization of all industry and land, rapid industrialization and political terror created a distinct Soviet society and culture. Readings will consist mostly of primary sources: novels, short stories, memoirs, Soviet propaganda, diaries, underground essays, songs, jokes, etc.

**[History 1532. Everyday Life in the Soviet Union: Conference Course]**

Catalog Number: 7916

*Terry D. Martin*

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

How did ordinary people live in a totalitarian state? Examines distinctive features of Soviet culture and society through the prism of everyday life. Topics include friendship, family, gender, work, survival tactics, terror, denunciation, nepotism, drinking, sex, humor. Readings will include novels, memoirs, Soviet propaganda, diaries, movies, jokes.

*Note:* Expected to be given in 2000–01.

**[History 1533. The Modern Police State: Russia/Soviet Union: Conference Course]**

Catalog Number: 4942

*Terry D. Martin*

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

Focuses on the role of the secret police in late Tsarist Russia and the Soviet Union. Topics include the surveillance of the population, informers and denunciation, collaboration and resistance, hiding one's identity, censorship, popular communication, political terror, violence,



and forced labor. Comparisons will be made to other Communist states and to Nazi Germany.

*Note:* Expected to be given in 2000–01.

### **History 1534. Organizing Opinion in Russia, 1881-1991**

Catalog Number: 2823

*Matthew E. Lenoe*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

An examination of the history of the media, propaganda, and the surveillance of popular moods in Russia since the advent of mass-circulation newspapers. Through readings of letters to Soviet newspapers, short stories, novels, Soviet tracts on agitation and propaganda, and recent scholarship we will explore the efforts of state officials to manipulate popular opinion. We will also inquire into their effectiveness.

### **History 1535. Socialist Realism in Soviet History: Conference Course**

Catalog Number: 2855

*Matthew E. Lenoe*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

A reading of Russian novels from 1861–1938, along with diaries, Soviet literary doctrine, scholarly studies of literary production, and short stories to discover how socialist realism became the keystone of high Stalinist culture.

### **History 1536. Russia in East Asia, 1891–1960: Conference Course**

Catalog Number: 6848

*Matthew E. Lenoe*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

History of the Russian Far East and Russian relations with Japan, China, and Korea. Topics will include continuities between Tsarist and Soviet imperialism, the construction of the Trans-Siberian Railroad, the 20th-century wars between Japan and Russia, and the Cold War in Asia.

### **[History 1585. Jews in Modern Times: From the French Revolution to the Emergence of Israel]**

Catalog Number: 7024

*Jay M. Harris*

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

The politics and impact of emancipation in Western and Central Europe; religious and secular responses in the early 19th century; economics, demography, urbanization, and migrations; development of modern anti-Semitism; Jewish life in Eastern Europe; intellectual and demographic trends; Zionism; the American experience; the rise of the state of Israel.

*Note:* Expected to be given in 2000–01.

*Primarily for Graduates*

### **History 2312 (formerly History 2377). The German Family, 1250–1750: Seminar**

Catalog Number: 8806

*Steven Ozment*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*



An introduction to research in German family history, including German script, during the late medieval and early modern periods. Requires a basic reading knowledge of modern German. 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. Both group and individual instruction.

**History 2332 (formerly \*History 2400). 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.

**History 2333. Problems in Modern British History: Seminar**

Catalog Number: 2961

*Susan Pedersen*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

**History 2342r (formerly History 2462r). The French Revolution: Seminar**

Catalog Number: 1914

*Patrice Higonnet*

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

The history of Paris during the French Revolution.

**[History 2472. Republics and Republicanism]**

Catalog Number: 6622

*James Hankins and Harvey C. Mansfield*

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

Ancient and modern republics studied with a view to republican virtue, civic humanism, constitutions, and democracy. Readings include Thucydides, Aristotle, Machiavelli, Rousseau, Tocqueville.

*Note:* Expected to be given in 2000–01. Open to all qualified undergraduates.

**[History 2475 (formerly History 2378). Problems and Sources in Modern German History: Seminar]**

Catalog Number: 8355 Enrollment: Limited to 12

*David Blackbourn*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

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:* Expected to be given in 2000–01. Reading knowledge of German not required.

**\*History 2511 (formerly \*History 2290). Socialism and Nationalism: Seminar**

Catalog Number: 6556

*Roman Szporluk*



*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Nationalism and socialism and their interaction with special reference to Poland, Russia, and Ukraine in the 19th and 20th centuries.

*Note:* Expected to be omitted in 2000–01.

**[History 2531. Stalinism: Seminar]**

Catalog Number: 7969

*Terry D. Martin*

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

Surveys and examines the major historical debates concerning the Stalinist state and Stalinist society. Primary focus on recent historiography and the impact of the opening of the Soviet archives in 1991.

*Note:* Expected to be given in 2000–01.

**[History 2552. 20th-Century European History: Conference Course](#)**

Catalog Number: 3474

*Charles S. Maier*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

On the occasion of the last semester of the 20th century, the course will revisit some of its major historical developments, review interpretations, and attempt to assess continuing significance. Tentative topics to be selected from among the following: European imperialism, the First World War, totalitarian regimes, the Holocaust, modernist and post-modernist cultural stances, political justice and overcoming dictatorship. Seminar credit for students writing substantial research papers.

***Cross-listed Courses***

**[Historical Study A-70. International History: The Last Century]**

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

**[Historical Study A-78. Nationalism and Socialism (1772–1991)]**

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

**[Historical Study B-53. World War and Society in the 20th Century: World War I](#)**

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

**[History 1656. The 19th Century Bourgeoisie: Western Europe and the U.S.: Seminar]**

***History of the United States***

***For Undergraduates and Graduates***

**[History 1602. The Frontier in Early America]**

Catalog Number: 8547

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

Examines the significance of the frontier in early American history, 1500-1800. Focus on the topics of war, trade, and cultural exchange among the native, British, French, Spanish, and African inhabitants of North America. Major themes include captivity, identity, and religious-



cultural conversion.

*Note:* Expected to be given in 2000–01.

### **History 1618. Material Life in Early America**

Catalog Number: 5761

*Laurel Thatcher Ulrich*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The history of early America through the lens of “material culture” — the ways in which human beings comprehended and altered their physical environment, from John White’s watercolors of Roanoke Indians in the 1580s to Alexander Hamilton’s census of household manufactures in 1810. Emphasis on the development of distinctive regional economies (the fur trade, plantation agriculture, subsistence farming) and on the intersection of public events with the rhythms and artifacts of ordinary life. Readings drawn from interdisciplinary scholarship in history, historical archaeology, demography, and the decorative arts.

### **History 1624 (formerly History 1620). Jacksonian America, 1815–1845**

Catalog Number: 5450

*William E. Gienapp*

*Half course (fall term). M., W., (F.), at 11, plus one hour to be arranged. EXAM GROUP: 4*

An examination of U.S. history during the age of Andrew Jackson, with attention to economic, political, social, and intellectual developments. Topics include the development of a democratic political culture, the process of industrialization, the market revolution and the commercialization of society, workers’ lives, changes in the family and women’s role, revivalism, the romantic movement, and the beginnings of modern American culture.

### **[History 1632. Gilded Age America: Economy, Society and Politics: Conference Course]**

Catalog Number: 4733

*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. Will explore the emergence of a more productive, larger and more centralized economy, new industries, the railroads, the changing face of cities, the social conflict resulting from the unequal distribution of new wealth, and the dramatic economic changes that put strains on the nation’s political system.

*Note:* Expected to be given in 2000–01.

### **History 1634. U.S. Race and Ethnicity, 1865-1965: Conference Course**

Catalog Number: 1107

*Ruth Feldstein*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

An exploration of ideas about race and ethnicity in relation to each other. Will consider particular moments, events, and debates from the end of the Civil War through 1965 to examine how and why meanings of race and ethnicity took shape, changed and re-formed. Questions include: How and when did certain ethnic groups become “white?” What has “blackness” meant to different



groups of people at different historical moments? How have native-born white Americans defined other ethnic groups, and how have other ethnic groups defined themselves over time?

**\*History 1635 (formerly History 1659 and 90h). Race and Race Relations Since Plessy: Conference Course**

Catalog Number: 4172 Enrollment: Limited to 15

*Stephan Thernstrom*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

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, *Brown v. Board*, the Civil Rights Act of 1964, and the Voting Rights Act of 1965; the crisis of the late sixties, the Kerner report, and the legislative, executive, and judicial initiatives that followed in its wake, trends since the 60's. Readings include court decisions, government reports, monographs, interpretive historical works, and some fiction and autobiography.

**[History 1636 (formerly History 1644 and 90i). America in the Progressive Era: Conference Course]**

Catalog Number: 6241

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

An examination of the range of strategies a diverse group of reformers devised between 1900 and World War I in response to the daunting problems of industrialization, urbanization, and immigration. Particular attention will be paid to the race reform struggle, the changing status of women, and the domestic implications of America's expanding role on the world stage.

*Note:* Expected to be given in 2000–01.

**History 1638. United States Social History, from 1929 to the Present**

Catalog Number: 5967

*Stephan Thernstrom*

*Half course (fall term). Tu., Th., at 10, plus one hour to be arranged for sections. EXAM GROUP: 12*

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.

**[History 1639. The Formation of Modern American Culture: Conference Course]**

Catalog Number: 8356

*Kristin Lee Hoganson*

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

The cultural history of the United States from the Civil War through World War I, and considering changes in popular and bourgeois culture and the development of mass culture during a time of rapid industrialization. Topics include real and imagined communities, the color line, imperial visions, domesticity, consumption, commercial amusements, corporate culture, modernism and antimodernism. Readings are drawn from a mix of secondary and primary



sources, the latter including novels, photographs, films and advertisements.

*Note:* Expected to be given in 2000–01.

**[History 1640 (formerly History 1660). The United States since World War II]**

Catalog Number: 6155

*Lizabeth Cohen*

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

An examination of American politics, society and culture from 1945 to the present. Topics include the Cold War, suburbanization and mass consumption, anticommunist crusades, the evolution of American liberalism, the civil rights movement, the war in Vietnam and the antiwar movement, second-wave feminism, and competing visions of the welfare state.

*Note:* Expected to be given in 2000–01.

**[History 1642a. U.S. Women’s History to 1900]**

Catalog Number: 0487

*Kristin Lee Hoganson*

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

An examination of women’s experiences from the colonial period to 1900. Course focuses on women’s work, family lives, and activism in light of changing beliefs about women’s proper roles and capabilities. Particular attention is paid to variations in women’s experiences according to their race, ethnicity, class, and region.

*Note:* Expected to be given in 2000–01.

**[History 1642b. U.S. Women’s History, Turn of the Century to the Present]**

Catalog Number: 3607

*Ruth Feldstein*

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

An examination of women’s experiences — and ideas about women — from the turn of the century. Topics include sexual practices and beliefs, consumer cultures, women and the welfare state, gender and civil rights activism, and women’s liberation. Particular attention is paid to commonalities as well as tensions and differences among women.

*Note:* Expected to be given in 2000–01.

**\*History 1643. The Confederacy: Conference Course**

Catalog Number: 2829 Enrollment: Limited to 15

*William E. Gienapp*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

An examination of the history of the Confederacy from the secession of the states of the Deep South in the winter of 1861 until the surrender of the Confederacy in 1865. Emphasis will be on developments in the South rather than on the events of the Civil War. Topics will include Jefferson Davis and Confederate politics, the economy and the home front, the destruction of slavery, common soldiers, the internal causes of the Confederacy’s eventual defeat, and southern memory of the war.

**[History 1644. Reconstruction, 1865-1877]**

Catalog Number: 8635



*William E. Gienapp*

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

An examination of the problem of reconstructing the Union after the Civil War. Both national developments and developments in the South will be considered. Topics will include the clash between the executive branch and Congress over the program of Reconstruction, political and economic change in the South, race relations and black rights, the end of Reconstruction, and the legacy of Reconstruction for the nation and especially the South and African Americans. Two lectures and a section meeting each week.

*Note:* Expected to be given in 2000–01.

**\*History 1645 (formerly History 1607). History of American Immigration: Conference Course**

Catalog Number: 7280 Enrollment: Limited to 15

*Stephan Thernstrom*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

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; U.S. immigration policy; the economic and social adjustment of newcomers; the Melting Pot vs. cultural pluralism.

**[History 1647 (formerly History 1711). The United States and East Asia: Conference Course]**

Catalog Number: 0455

*Akira Iriye*

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

Topics in the history of United States relations with the countries of East Asia, with an emphasis on problems of cultural communication, economic independence, and geopolitical rivalries.

*Note:* Expected to be given in 2000–01.

**History 1648. Communication in the Early Nation: Conference Course**

Catalog Number: 7491

*Catherine A. Corman*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

An examination of how print influenced the ways Americans, including women, Indians, and African Americans, communicated and how that communication shaped the nation between 1776 and 1840.

**History 1649. The American West: 1780-1930**

Catalog Number: 6636

*Catherine A. Corman*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

History of the American West covering the rise and demise of Turner's frontier thesis; literary and visual conceptualizations of the mythic West; the Northwest Ordinance and the creation of "Indian Country"; land policies in the new nation; the role of Indians in the development of an American market economy; the "first Wests" of Kentucky and Ohio; the growing importance of



the Southwest and its peoples; sectionalism, expansion, and the coming of the Civil War; the Indian New Deal; and the ethnic and racial complexities of a new, urban West.

### **History 1650a. Foreign Relations of The United States I**

Catalog Number: 3435

*Ernest R. May and Akira Iriye*

*Half course (fall term). Tu., Th., (S.), at 11, plus one hour to be arranged. EXAM GROUP: 13*

American foreign relations from the colonial period through the First World War. Topics include the transition from colonial to imperial status; the changing role of the U.S. 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 United States II**

Catalog Number: 4745

*Half course (spring term). Tu., Th., at 11, plus one hour to be arranged.*

American foreign relations since the First World War. Topics include the world role of the supposedly isolated United States in the interwar years, World War II, postwar “hegemony,” the Cold War, and political, economic, and cultural interaction between Americans and other peoples.

### **[History 1653. Baseball and American Society, 1840–Present]**

Catalog Number: 5860

*William E. Gienapp*

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

Examines the history of baseball within the context of cultural and social history, with focus on the ways in which baseball has reflected social, economic, and cultural changes in American history from the mid-19th century to the present. More attention will be given to the period before 1950 than the recent era.

*Note:* Expected to be given in 2000–01.

### **[History 1654. The History of American Capitalism: From the Industrial Revolution to World War I: Conference Course]**

Catalog Number: 7002

*Sven Beckert*

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

An examination of the major trajectories of the development of American capitalism in the 19th century. Will focus on the reasons for and effects of capitalist growth, and of how the U.S. turned from a relatively minor outpost of the Atlantic economy to the powerhouse of the world economy and how this in turn shaped the ways Americans produced and lived. Topics will range from the economic consequences of the Civil War to the impact of capitalism on gender relations; from the changing structure of American businesses to the role of the government in channeling economic development.

*Note:* Expected to be given in 2000–01.

### **[\*History 1655. Abraham Lincoln: Conference Course]**

Catalog Number: 5041 Enrollment: Limited to 15



*William E. Gienapp*

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

An examination of Abraham Lincoln's life and his significance in American history. More attention will be given to his presidency than to his career before 1860. Class meetings will focus on discussion of the assigned reading. Topics to be examined include the influence of the frontier on his character, his emergence as a national political figure, the quality of his presidential leadership, emancipation, his role as commander-in-chief, the impact of the war on his ideas, and his place in American historical memory.

*Note:* Expected to be given in 2000–01.

**[History 1656. The 19th Century Bourgeoisie: Western Europe and the U.S.: Seminar]**

Catalog Number: 0926

*Sven Beckert*

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

An introduction to the history of the bourgeoisie in the U.S., England, Germany and France in comparative perspective. Delineating the role of merchants, industrialists, bankers and professionals at home, at work and in politics, the course will review large questions about the place of the bourgeoisie in 19th century societies and its relationship to liberalism and political democracy, but also look at bourgeois gender roles, culture and religion.

*Note:* Expected to be given in 2000–01.

**[History 1657. Gender and American Society: The 19th Century: Conference Course]**

Catalog Number: 1024

*Kristin Lee Hoganson*

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

The social construction of gender in the age of “separate spheres.” Course considers how economic, social, political, and cultural factors helped determine male and female roles, and how gender beliefs and practices affected social order and individual agency. Topics include work, sexuality, politics, family life, leisure pursuits, and reform endeavors.

*Note:* Expected to be given in 2000–01.

**[History 1658. U.S. Culture and the Wider World at the Dawn of the “American Century”:  
Conference Course]**

Catalog Number: 3825

*Kristin Lee Hoganson*

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

U.S. culture in light of the nation's ascendance to superpower status in the first half of the 20th century. Course considers how U.S. culture contributed to the nation's influence overseas, and how the nation's international standing affected U.S. culture. Topics include visions of empire, transnationalism, expatriation, cultural expansion, and cross-cultural conflicts.

*Note:* Expected to be given in 2000–01.

**[\\*History 1659. U.S. Cultural History, Turn of the Century to Present: Conference Course](#)**

Catalog Number: 8905

*Ruth Feldstein*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*



Will consider questions of who owns and defines “culture” in the context of 20th-century U.S. history. Topics include the rise of the film industry, modernist and "middlebrow" literature, television and protest movements, rock and rap music.

**[History 1660. Using Primary Sources in African-American History: Seminar]**

Catalog Number: 8151

*Evelyn Brooks Higginbotham*

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

This seminar offers a firsthand account of the lives of slaves and freedpeople, women and laborers, migrants and freedom fighters in black America. Students will explore a variety of topics in 19th and 20th century African-American history by focusing on primary sources, such as diaries, newspapers, correspondence, census data, court records, and organizational archives. The course will emphasize how historians go about their craft of documenting and interpreting the past.

*Note:* Expected to be given in 2000–01.

**History 1661. Social Thought in Modern America**

Catalog Number: 8440

*James T. Kloppenberg*

*Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7*

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 or democracy of our contemporary culture of irony.

**[History 1663. The 1950s: Conference Course]**

Catalog Number: 2658

*Ruth Feldstein*

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

In comparison to the 1960s, the 1950s have often been viewed as a period of traditionalism and apathy. This seminar challenges that view, exploring seemingly unrelated currents in—and interpretations of—the United States in the 1950s. Topics include civil rights activism, U.S. foreign policy, Beat culture, the rise of television, and the “feminine mystique.” Course raises questions such as: What was the relationship between McCarthyism and changing gender roles? What was the relationship between foreign and domestic policy and cultural experimentation?

*Note:* Expected to be given in 2000–01.

**History 1664. The Age of Progressivism: Reform, Radicalism, and Change in Turn-of-the-Century America**

Catalog Number: 3723

*Brett Flehinger*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

A study of the flowering of economically-modern, industrial America and the numerous reforms that Americans instituted in response to economic, social, and political change. Will approach



the Progressive period broadly, linking it with the Gilded Age and Populist period of the 1800s as well as the “New Era” of the 1920s.

### **History 1665. Crime and Criminal Justice in the U.S., 1865-1999: Conference Course**

Catalog Number: 8537

*Rebecca Mary McLennan*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

An exploration of the social and political history of crime, criminal law, policing, and punishment in the U.S. since the Civil War. Reading both primary and secondary sources, will consider the consolidation of the modern, prison-based criminal justice system in the late 19th century; the contemporaneous proliferation and persistence of alternative forms of policing and punishment (such as lynching); permutations in the legal and cultural meanings of crime since 1865; the rapid expansion of the modern criminal justice system in the Progressive Era and the 1930s; and the contested politics of “law and order” since World War II.

### **History 1670. The New Deal: The United States During the Roosevelt Years: Conference Course**

Catalog Number: 4878

*Lisa M. McGirr*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

An exploration of the trajectory of New Deal reform and the broader social, economic, political, and cultural changes in the United States in this period. Topics will include the First and Second New Deal, the rise of liberalism, the Roosevelt administration, the social movements of the Left and the Right during the 1930s, the coming of war, and the waning of the reform impulse.

### **History 1672. The United States in the 1960s**

Catalog Number: 5900

*Lisa M. McGirr*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

An introduction to the main developments in American society, culture, and politics during the premiere liberal decade of the 20th century. Topics will 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 1673. Conservatism and Right-Wing Politics in 20th Century American Life**

Catalog Number: 2340

*Lisa M. McGirr*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

An introduction to debates among historians and social scientists on the American Right. Will examine ideas, social groups, and cultural settings that have contributed to shaping the various strands of American conservatism in the 20th century—from the religious Right and movements of populist reaction to libertarianism. Topics will include religious fundamentalism, the KU Klux Klan in the 1920s, the Right during the Great Depression, McCarthyism, the conservative intellectual movement since 1945, the John Birch Society, the Goldwater movement, and the New Right.

*Note:* Expected to be omitted in 2000–01.



**History 1675. Women in the U.S., 1941-1977**

Catalog Number: 1387

*Daniel Horowitz (Smith College)*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Focus on the history of American women from the 1940s until the mid-1970s, from the entrance of millions of women into the paid work force during World War II until a series of key events of the 1970s—the Supreme Court decision in *Roe v. Wade*, the failure of the Equal Rights Amendment, and the emergence of varieties of feminism.

**[History 1681. The History of Sexuality: Conference Course]**

Catalog Number: 7747

*Ruth Feldstein*

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

An introduction to the lines of inquiry which inform the history of sexuality. Will consider how historians and others constitute sexuality as an object of historical inquiry and investigate several specific moments and episodes that suggest how the meanings of sexuality have taken shape historically. Will focus primarily, though not exclusively, on the history of sexuality in the United States.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

**[Afro-American Studies 110. African-American Women’s History: Seminar]**

**Afro-American Studies 118. African-American History from the Slave Trade to 1900**

**[Afro-American Studies 191. The Civil Rights Movement: Seminar]**

**English 179k. American Autobiography**

**Historical Study B-42. The American Civil War, 1861–1865**

***Primarily for Graduates***

**History 2601. The U.S. in the 20th Century: Seminar**

Catalog Number: 1270

*Lizabeth Cohen*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Research on topics in 20th-century U.S. history.

**History 2603. The United States in the 20th Century**

Catalog Number: 2931

*Lizabeth Cohen*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Readings in a combination of classics and recent monographs and articles, with particular attention paid to making connections between politics, social life, and culture. The course will strive to integrate the experiences of diverse social groups — African Americans, immigrants, women, homosexuals — into broader historical contexts and larger historical problems.



**History 2605. Culture and Society in Early America**

Catalog Number: 3788

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Readings in contemporary scholarship with an emphasis on integrating traditional themes with new research on household economics, race, religion, ethnicity, and gender. Students will write several short papers and a review essay.

**[History 2606. Early American Social History: Seminar]**

Catalog Number: 6049

*Laurel Thatcher Ulrich*

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

Research in early American social history. Some prior knowledge of the period assumed.

*Note:* Expected to be given in 2001–02.

**[History 2612 (formerly History 2602). 19th-Century United States: Research Seminar]**

Catalog Number: 6686

*William E. Gienapp*

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

*Note:* Expected to be given in 2001–02.

**History 2613. Assessing Other Governments: Seminar**

Catalog Number: 7404

*Ernest R. May*

*Half course (spring term). W., 4–6. 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 2631. American Intellectual History: Seminar]**

Catalog Number: 4951

*Donald Fleming*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

*Note:* Expected to be given in 2000–01.

**[History 2661. Graduate Readings in 20th Century African-American History: Seminar]**

Catalog Number: 9004

*Evelyn Brooks Higginbotham*

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

This seminar covers key literature on topics in 20th century African-American history. Reading classic and more recent works, graduate students will investigate critical themes and events from the birth of Jim Crow at the turn of the century to the legal climate of the 1990s.

*Note:* Expected to be given in 2000–01.



**History 2662. Readings in American Thought**

Catalog Number: 8845

*James T. Kloppenberg*

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

An examination of classic and contemporary histories of American thought.

**\*History 2671. American Social History: Seminar**

Catalog Number: 0969

*Stephan Thernstrom*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

***History of Latin America***

***For Undergraduates and Graduates***

**History 1740. The Andes: Pre-Conquest to Present: Conference Course**

Catalog Number: 8922

*Jane Erin Mangan*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

A history of the Andes, particularly Bolivia, Ecuador, and Peru, a region characterized by the dominance of native cultures from pre-Columbia times to the present. Particular attention to the social and political expressions of resistance to ruling hierarchies. Topics include Inca Empire, impact of Spanish rule on Andean society, religious society, religious resistance, Africans in the Andes, native rebellions, transition to nations, and recent political history.

**History 1741. Gender and History in Latin America**

Catalog Number: 1467

*Jane Erin Mangan*

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

A study of Latin American history with a focus on the distinct patterns of gender relations that have dominated Latin American society for hundreds of years. Themes include gender and conquest, women slaves, paternalism, negotiation of honor, religion and social control, gender and social change, women and the law, the gendered world of labor, sexuality, and family and migration.

**[History 1760a. The History of Latin America to 1914]**

Catalog Number: 1878

*John H. Coatsworth*

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

Topical survey of Latin American history examining aspects of pre-Colombian cultures, the impact of conquest and colonization, colonial political economy, slave and peasant resistance and rebellion, the collapse of Iberian colonialism, the formation of new nation states, and the development of export-led economies prior to the First World War.

*Note:* Expected to be given in 2000–01.



**History 1760b. The History of Latin America, 1914–1998**

Catalog Number: 7328

*John Womack, Jr.*

*Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5*

From the First World War to the present, a survey of Latin American societies and politics, with emphasis on economic developments and struggles for power, justice, progress, and security.

**\*History 1781. Modern Mexican History: Conference Course**

Catalog Number: 5731

*John Womack, Jr.*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Topic for 1998–99: labor markets, industrial development, industrial work, and labor markets.

**[History 1783. Cuba, 1492–1997]**

Catalog Number: 6420

*John Womack, Jr.*

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

Between the Atlantic, the Caribbean, and the Gulf of Mexico, the origins and successive developments of Cuban society and politics. Strategic contexts, slavery, colonial status, sugarocracy, emancipation, imperialism, independence, democracy, dictators, gangsters, nationalism, socialism.

*Note:* Expected to be given in 2001–02.

*Primarily for Graduates*

**[\*History 2782 (formerly \*History 1782). The Economic History of Latin America]**

Catalog Number: 4261 Enrollment: Limited to 15

*John H. Coatsworth*

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

Examines the evolution of the Latin American economies from the colonial era to the 20th century. Topics include the measurement of early modern economic activity, economic growth and institutional change, the impact of external economic relations, land tenure and agricultural development, strategies of industrialization, and issues of political economy.

*Note:* Expected to be given in 2001–02. Rudimentary economics, some Latin American history, and Spanish or Portuguese helpful but not required. Undergraduates may enroll with the permission of the instructor.

***History of Asia, Africa, and Australasia***

*For Undergraduates and Graduates*

**History 1820. Premodern Vietnam**

Catalog Number: 4581

*Hue-Tam Ho Tai*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

Vietnamese history from antiquity to the founding of the Nguyen dynasty in 1802 with emphasis



on the period following independence from China in the 10th century. Topics include the Sinicization of Vietnam and the sources of Vietnamese national identity; tensions between aristocratic and bureaucratic rule; territorial expansion and national division; first contacts with the West; the changing status of women.

### **History 1821. Modern Vietnam**

Catalog Number: 8192

*Hue-Tam Ho Tai*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

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 1824a (formerly Foreign Cultures 36 and History 1824). China in Modern Times: Conference Course**

Catalog Number: 0171

*Philip A. Kuhn*

*Half course (fall term). Tu., 2–4, plus one hour to be arranged. EXAM GROUP: 16, 17*

For over a century, Chinese have been asking how much of their old culture must be sacrificed to enable their nation to survive in the modern world. Course explores the culture of the old empire and traces its collapse under the pressures of external attack and internal revolution. It then considers what cultural materials—domestic and foreign—have been used to build a new political and social order. Reading emphasizes primary sources in translation.

*Note:* This course may not be taken to meet the Core requirement in Foreign Cultures. No previous study of Chinese history required.

### **[History 1832. Continuity and Change in Contemporary Chinese History: Conference Course]**

Catalog Number: 2547

*William C. Kirby*

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

Investigates patterns of state-society relations in 20th-century China from three historical perspectives: of Republican China before 1949; of the People's Republic of China since 1949; and of the Republic of China on Taiwan since 1946. Particular attention is paid to China's mid-century transitions and their legacies.

*Note:* Expected to be given in 2000–01. For advanced undergraduates and graduates with background in Chinese history.

### **History 1836. Chinese and Indian Diaspora in the Americas**

Catalog Number: 5076

*Sucheta Mazumdar*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Will examine the histories of Chinese and Indian immigrants to the Americas in historical



perspective. Will introduce the history of Chinese and Indian indentured labor migration to the Caribbean and examine migration to the U.S. up to World War II. Themes will include conditions in the homeland which fostered migration, colonialism and migration, legislative barriers to immigration in the U.S., and the politics of creolization versus assimilation.

**History 1851a (formerly History 1851). Japan's Modern Revolution**

Catalog Number: 0456

*Daniel V. Botsman*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

The history of Japan in the 19th century, with a focus on the revolutionary transformations of mid-century. The late Tokugawa socio-economic and intellectual crises, the Meiji Restoration and its aftermath, and the beginnings of constitutional government, industrialization, and imperialism.

**[History 1851b. 20th-Century Japan]**

Catalog Number: 8696

*Andrew Gordon*

*Half course (spring term).*

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 1980's boom to the 1990's bust; the early end to the Japanese century?

*Note:* Expected to be given in 2000–01.

**[History 1877a. History of the Near East, 600–1055]**

Catalog Number: 1770

*Roy Mottahedeh*

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

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.

*Note:* Expected to be given in 2000–01.

**[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 2000–01. History 1877a helpful, but not required.



**[History 1878a. Ottoman State and Society I (1300–1550)]**

Catalog Number: 5471

*Cemal Kafadar*

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

Surveys the emergence of the Ottoman state from a frontier principality into a world empire in its sociopolitical and cultural contexts. Topics include pre-Ottoman Anatolia; frontier society; methods of conquest; centralization of power; classical institutions of the land regime and of the central administration; urbanization; religion and literature. Relations with Byzantium, other Islamic states, and Europe are examined.

*Note:* Expected to be given in 2000–01.

**History 1878b. Ottoman State and Society II (1550–1920)**

Catalog Number: 6470

*Cemal Kafadar*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

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, and family life are also examined. The importance of this era for understanding today’s Middle East is stressed.

**[History 1883. The Middle East and Modernity: Conference Course]**

Catalog Number: 2369 Enrollment: Limited to 12.

*Cemal Kafadar*

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

When and how did Middle Eastern societies become modern? Or postmodern? Or, are they still traditional? In what sense? Examines Middle Eastern history since the 16th century in the light of the current literature on the meanings and trajectories of modernity. Analyzes the processes of transformation in different spheres of social organization (state, family, etc.) , and cultural expression (literature, music, architecture, etc.). Particular attention paid to the Ottoman realm from the “early modern” era through the 19th-century reforms. Comparative projects dealing with different parts of the Islamic world and the Balkans will be encouraged.

*Note:* Expected to be given in 2000–01.

**[History 1884. Introduction to Archival Research in Ottoman History: Proseminar]**

Catalog Number: 4513

*Cemal Kafadar*

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

A survey of archival collections related to Ottoman history. Introduction to the archives of the central government, pious endowments, provincial administrations, and court records. Also covers European collections of Ottoman documents and archival materials in European languages. Attention given to the standard tools of reference.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Turkish.



**History 1885. The Making of Modern Egypt , 1840-2000**

Catalog Number: 2499

*Edward Roger Owen*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

A history of Egypt's socio-economic and political development, making use of the rich historical literature, and posing questions about the conventional narrative treatment of such major issues as the colonial impact, the rise of the nationalist movement, the supposed failure of the liberal experiment and the uses and abuses of revolution.

**History 1889. Transmission of Traditional Islamic Learning in the Middle East from the Beginning of Islam to the Present**

Catalog Number: 2155 Enrollment: Limited to 12

*Roy Mottahedeh*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

A study of the transmission of Islamic learning in the Middle East, principally in the institutions of learning called *madrasahs*, but also in private circles, from the 7th century to the present. Topics include the origins of the study of scripture, the origins of the *madrasah*, permissions to teach, curriculum, methods for examining the accuracy of manuscript copies, the influence of Sufi mystical orders in styles and methods of teaching, reaction to the introduction of printing, modern attempts at state control of *madrasahs*.

*Prerequisite:* A course in the history of the Islamic Middle East, premodern or modern.

**History 1890b. The Economics of the Middle East**

Catalog Number: 1249

*Julia C. Devlin*

*Half course (fall term). M., 12–2, plus one hour to be arranged. EXAM GROUP: 5, 6*

A critical overview of the processes of economic growth and transformation in the Middle East from World War I 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 1902. Alcohol in Sub-Saharan Africa, 1850 to the Present: Conference Course]**

Catalog Number: 2765

*Emmanuel K. Akyeampong*

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

Using alcohol as a microscope to highlight stasis and change in the structures and relations of African societies since 1850, course examines the uses and meanings of alcohol in precolonial and rural Africa; its place in European-African trading contacts; its role in the process of colonization; colonial attitudes toward alcohol and the place of alcohol in the political economy of colonialism; alcohol and urbanization; alcohol and gender; alcohol and nationalist politics; alcohol and industrialization in independent Africa; and alcohol and addiction in contemporary Africa.

*Note:* Expected to be given in 2000–01.

**History 1906. West Africa from the Earliest Times to 1800**

Catalog Number: 1425

*Emmanuel K. Akyeampong*



*Half course (fall term). Tu., Th., at 11, plus one hour to be arranged. EXAM GROUP: 13*

Explores important themes in West African history: ecology and environmental changes; the introduction of agriculture and the emergence of sedentary societies; the trans-Saharan trade; the introduction and spread of Islam; migrations, and the formation of states; African slavery; the trans-Atlantic trade; and the spread of informal European influence. Also examines the sources and methods used in the reconstruction of West African history in the period under study.

### **History 1907. West Africa from 1800 to the Present**

Catalog Number: 4650

*Emmanuel K. Akyeampong*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Explores the internal dynamics of West African states from 1800, and West Africa's relations with the wider world. Increasing integration of independent West African states into global economy from 1800 would result in European colonization, redefining the existence of West African states and their relations with Europe. Examines African perspectives of colonialism, nationalism, and the transfer of political power. Concludes with the study of the continued struggle of independent West African states to achieve economic independence.

### **History 1908. Rethinking Gender in African History: Conference Course**

Catalog Number: 4526

*Emmanuel K. Akyeampong*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Examines continuity and change in gender roles from the precolonial era to the present, defining gender as a social construct. Themes include production and reproduction; gender, knowledge, and rituals of transformation; gendered experiences of colonialism and capitalism; and divorce, widowhood, and inheritance in Africa.

### **[History 1910. Islam in Sub-Saharan Africa, 630 C.E. to the Present: Conference Course]**

Catalog Number: 7203

*Emmanuel K. Akyeampong*

*Half course (spring term). W., 2–4.*

Explores in some detail main themes in the history of Islam in sub-Saharan Africa. Examines the form and content of Islamic belief and practice as conceived by Muhammad; the form Islam took in North Africa and how this influenced the “flavor” of Islam in sub-Saharan Africa; conversion to Islam in sub-Saharan Africa; Islam, trade, and state formation; Islamic theology, Muslim Brotherhoods and the eighteenth revival; the West African jihads; Islam under colonial rule; Islam and gender; and Islam in contemporary Africa.

*Note:* Expected to be given in 2000–01.

### **[History 1912. Health, Disease and Ecology in African History: Conference Course]**

Catalog Number: 5905

*Emmanuel K. Akyeampong*

*Half course (fall 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 2000–01.

### **History 1913. 19th and 20th Century South African History**

Catalog Number: 1970

*Diana Wylie*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

An exploration of the historical background to economic and political conflict in the present Republic of South Africa. Topics include the nature of pre-colonial African societies, analyses of labor relations before and after the discovery of gold and diamonds in the late 19th century, the evolution of the apartheid state and its antecedents, and the prospects for change in that racially stratified society.

### **History 1914. Histories of the New South Africa: Conference Course**

Catalog Number: 1589

*Diana Wylie*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 16, 17*

A critical analysis of recent writing about South Africa, covering the history of the region from the 17th through the 20th centuries and representing new historiographical perspectives on transformations in South African society.

### ***Cross-listed Courses***

[Arabic 144. Sources for the Study of Islamic History]

[Chinese History 112. Introduction to Chinese History: Late Imperial China, 755-1700]

[Chinese History 116c. Modern Chinese Intellectual History]

[Chinese History 119. The Silk Road: Cultural and Political Interaction on the Trade Routes Across Central Asia]

[Chinese History 120. History of the Mongol Conquest]

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

**Historical Study A-13. Tradition and Transformation in East Asian Civilization: China**

**Historical Study A-14. Tradition and Transformation in East Asian Civilization: Japan**

[Historical Study A-68. The Making and Remaking of the Modern Middle East]

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

**Japanese History 111a. The Early History of Japan**

**Japanese History 111b. The Shogun's Realm, 1600–1868: Conference Course**

**Japanese History 116a. History of Japanese Religions: Conference Course**

**Japanese History 116b. History of Japanese Religions: Conference Course**

**Korean History 111. Traditional Korea**

**Korean History 114. Modern Korea**

[Korean History 120. Korean Intellectual History: Conference Course]

[Persian 150r. Readings in Persian Historians, Geographers and Biographers]

*Primarily for Graduates*

**[History 2820. Topics in Vietnamese History]**

Catalog Number: 3593

*Hue-Tam Ho Tai**Half course (fall term). Hours to be arranged.*

Reading of selected texts in premodern and modern Vietnamese history. Primarily for graduate students, but open to advanced undergraduates as well.

*Note:* Expected to be given in 2000–01.*Prerequisite:* Vietnamese 103 or equivalent training.**[History 2821. Readings in Vietnamese History]**

Catalog Number: 7625

*Hue-Tam Ho Tai**Half course (spring term). Hours to be arranged.*

Reading of selected texts in English in modern Vietnamese history.

*Note:* Expected to be given in 2000–01. Primarily for graduate students, but open to advanced undergraduates as well.**History 2830a. Late Imperial and Modern Chinese History: Conference Course**

Catalog Number: 6453

*Philip A. Kuhn**Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Treats the history of the field by examining recent scholarship in its intellectual context.

*Note:* Primarily for graduate students preparing for the general examination, but open to others as well.**History 2830b. The Writing of Modern Chinese History: Conference Course**

Catalog Number: 4435

*Philip A. Kuhn**Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A continuation of 2830a with particular attention to Chinese historians of the twentieth century.

Depending on the individual student's level of Chinese language, some readings will be available in original texts, with vocabularies and notes. Reading knowledge of Chinese is not a prerequisite. Reports and research papers will be presented.

*Note:* Primarily for Ph.D. dissertation writers.**\*History 2831r. Research Topics in Modern Chinese History: Conference Course**

Catalog Number: 6017

*Philip A. Kuhn**Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Primary research on selected topics in Chinese history since the 17th century. Consult instructor for details of the current research topic.

*Note:* Intended for graduate students with a reading knowledge of Chinese.**History 2836. Readings on the Economy, Culture and Society of Late Imperial China: Seminar**

Catalog Number: 5280



*Sucheta Mazumdar*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

An introduction to research scholarship and methodologies on specific problems in the study of society and culture of 17th and 18th century China.

**History 2847. 20th-Century China: Seminar**

Catalog Number: 0279

*William C. Kirby*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Designed for graduate students who wish to pursue original research in Chinese history of the 20th Century. Students are introduced to major research aids and published documentary collections. Surveys archival and library holdings on modern and contemporary China in Asia, Europe, and the United States. Students translate primary source materials and write and present a research paper.

*Prerequisite:* Reading knowledge of Chinese.

**[History 2848a. Introduction to Archival Research in Chinese History: Conference Course]**

Catalog Number: 1863

*Philip A. Kuhn*

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

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:* Expected to be given in 2000–01. Open to qualified undergraduates with permission of instructor.

*Prerequisite:* Chinese 106b or equivalent training.

**[History 2848b. Introduction to Archival Research in Chinese History: Seminar]**

Catalog Number: 3522

*Philip A. Kuhn*

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

Research papers prepared on the basis of published collections of archival documents on Qing and modern history.

*Note:* Expected to be given in 2000–01.

**\*History 2851. Japanese History: Seminar**

Catalog Number: 5146

*Andrew Gordon, Mikael Adolphson, Harold Bolitho, and Daniel V. Botsman*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

*Prerequisite:* Reading knowledge of Japanese.

**[History 2852. Topics in Modern Japanese History: Proseminar]**

Catalog Number: 0481

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

Readings of documents and secondary works on topics in modern Japanese history.



*Note:* Expected to be given in 2000–01.  
*Prerequisite:* Reading knowledge of Japanese.

**History 2854. Issues in Tokugawa and Meiji History: Seminar**

Catalog Number: 0305

*Daniel V. Botsman*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

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 2884. Topics in Ottoman Social and Cultural History: Seminar]**

Catalog Number: 3762

*Cemal Kafadar*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Turkish.

**History 2886. Topics in Islamic History**

Catalog Number: 3470

*Roy Mottahedeh*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

**History 2887a (formerly History 2887). Debates in the Economic and Social History of the Middle East: Seminar**

Catalog Number: 1352

*Julia C. Devlin*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Major questions and debates in recent writings on the economic and social transformation of the Middle East, including the use of concepts of class, status and sect; the study of popular movements and revolutions; the impact of imperialism and colonialism; and the analysis of state/society relations.

**History 2887b. Debates in the Political and Ideological History of the Middle East: Seminar**

Catalog Number: 4102

*Edward Roger Owen*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Major questions and debates in recent writings on the political and ideological history of the Middle East, including the concepts of Orientalism, nationalism, power and authority, and tradition and modernity; revisions of the nationalist narrative; and attempts to explore new types of historical writing.

***Cross-listed Courses***

**[Chinese History 226. Introduction to Sources for Local History]**

**[Chinese History 227z. Topics in Middle-Period Sociocultural History: Seminar]**



**[Chinese History 237. Introduction to Shang and Western Zhou Inscriptural Materials: Seminar]**

**[Chinese History 240r (formerly Chinese History 240). Readings in Chinese Intellectual History]**

**[Korean History 230r \(formerly Korean History 230\). Traditional Korean History: Seminar](#)**

**[\*Korean History 253r. Topics in Modern Korean History: Proseminar]**

**[\*Korean History 255r. Modern Korean History: Seminar]**

### *Comparative History, Historiography, and Methodology*

#### *For Undergraduates and Graduates*

**[History 1930. Black Slavery in Africa and the Americas: Conference Course]**

Catalog Number: 2673

*Emmanuel K. Akyeampong*

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

Examines the evolution of the institution of slavery from its early form in the Roman world to its later variants in Africa and the Americas. It highlights the specific historical contexts of slave systems, continuity and change in the ideologies of slavery, and the uses of slaves — as soldiers, administrators, concubines, eunuchs, “kinsmen”, labor and capital — as the institution shifts in time and space. The course ends with an examination of the “worlds” slaves forged in Africa and the Americas, and the eventual abolition of slavery.

*Note:* Expected to be given in 2000–01.

**[History 1942. The Historiography of Reformation Europe, 1450-1650: Conference Course]**

Catalog Number: 5887

*Steven Ozment*

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

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.

*Note:* Expected to be given in 2000–01.

**[History 1950. Comparative Labor History: U.S., France, Great Britain, and Germany: 1789–1914: Conference Course]**

Catalog Number: 2643

*Sven Beckert*

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

An examination of the experiences of labor in the U.S. and Europe in the 19th century, including the ways in which peasants and artisans turned into workers, the distinct responses of different groups of workers to economic change and the conditions under which workers have acted collectively. Topics will include working-class culture as well as the impact of skill, ethnic and gender divisions on labor. Simultaneously, the seminar will explore the varied ways historians have looked at workers and their organizations.

*Note:* Expected to be given in 2001–02.



**[History 1952. Comparative Colonialism: Conference Course]**

Catalog Number: 6795

*Catherine A. Corman*

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

An introduction to major themes and thinkers in the history of colonialism, including an examination of the ways different peoples approached problems common to colonial encounters.

*Note:* Expected to be given in 2000–01.

**[History 1968. The World of the 1930s: Conference Course]**

Catalog Number: 0449

*Akira Iriye*

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

Discussion of domestic crises and international tensions during the 1930s in a comparative perspective. Political and cultural turmoil in Europe, Asia, and the United States examined in the context of the collapse of the world order.

*Note:* Expected to be given in 2000–01.

**History 1983 (formerly History 1683). Reasoning From History**

Catalog Number: 7888

*Ernest R. May*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Uses of history in policy analysis and decision-making. Primarily discussion of case studies.

*Note:* Offered jointly with the Kennedy School of Government as API 701.

*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:* Open to undergraduates by permission of the instructor.

**History 2904. Readings in Japanese History**

Catalog Number: 4041

*Andrew Gordon*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

A graduate colloquium for students preparing for general examinations in modern Japanese history or interest in English-language historiography of modern Japan.

**History 2906. International History: Seminar**

Catalog Number: 0453

*Akira Iriye*



*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*  
Research seminar in the history of modern international relations.

### **History 2908. Sources, Methodology, and Themes in African History**

Catalog Number: 5861

*Emmanuel K. Akyeampong*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

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.

### ***Cross-listed Courses***

**\*American Civilization 370 (formerly American Civilization 270). Colloquium in American Civilization**

**\*Economics 2339. Workshop in Economic History**

**[Historical Study A-68. The Making and Remaking of the Modern Middle East]**

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

**[History 1656. The 19th Century Bourgeoisie: Western Europe and the U.S.: Seminar]**

### ***Graduate Courses of Reading and Research***

**\*History 3000. Direction of Doctoral Dissertations**

Catalog Number: 4630

*Bernard Bailyn 1841, Thomas N. Bisson 1451, David Blackbourn 3203 (on leave fall term), Peter K. Bol 8014 (on leave spring term), Harold Bolitho 1176, John H. Coatsworth 3248 (on leave spring term), Elizabeth Cohen 3627, Albert M. Craig 1847, Donald Fleming 1831 (on leave 1999-00), William E. Gienapp 2109, Andrew Gordon 1891, James Hankins 1239, Patrice Higonnet 2730, Stanley Hoffmann 1757, Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Christopher P. Jones 3204, Cemal Kafadar 2459, Edward L. Keenan 1825, William C. Kirby 3128, Mark A. Kishlansky 2895, Philip A. Kuhn 8051, Angeliki E. Laiou 7282 (on leave fall term), David S. Landes 2732, Charles S. Maier 7227, Ernest R. May 1817, Michael McCormick 2849, Thomas K. McCraw (Business School) 7371, Roy Mottahedeh 1454 (on leave fall term), John E. Murdoch 1877, Edward Roger Owen 1028 (on leave fall term), Steven Ozment 6197, Susan Pedersen 1972, Richard Pipes 1827, Roman Szporluk 3033, Hue-Tam Ho Tai 6079, Stephan Thernstrom 4141, Wei-Ming Tu 7233, Laurel Thatcher Ulrich 1886, and John Womack, Jr. 1863*

**\*History 3010. Reading and Research**

Catalog Number: 3424

*Emmanuel K. Akyeampong 3421, Timothy L. Alborn 2891, Sven Beckert 2415 (on leave 1999-00), Thomas N. Bisson 1451, David Blackbourn 3203 (on leave fall term), Peter K. Bol 8014 (on leave spring term), Harold Bolitho 1176, Joyce Elizabeth Chaplin (Vanderbilt University) 1058, John H. Coatsworth 3248 (on leave spring term), Elizabeth Cohen 3627, Albert M. Craig 1847, Charles Donahue, Jr. (Law School) 2650, Brendan Dooley 2893, Donald Fleming 1831 (on leave 1999-00), William E. Gienapp 2109, Andrew Gordon 1891, David D. Hall (Divinity*



*School) 2510, James Hankins 1239, Evelyn Brooks Higginbotham 3517 (on leave 1999-00), Patrice Higonnet 2730, Stanley Hoffmann 1757, Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Christopher P. Jones 3204, Cemal Kafadar 2459, Edward L. Keenan 1825, Mark A. Kishlansky 2895, James T. Kloppenberg 3157 (on leave spring term), Philip A. Kuhn 8051, Angeliki E. Laiou 7282 (on leave fall term), David S. Landes 2732, Fred M. Leventhal (Boston University) 1640, Charles S. Maier 7227, Ernest R. May 1817, Michael McCormick 2849, Thomas K. McCraw (Business School) 7371, Louis Miller 1881, Roy Mottahedeh 1454 (on leave fall term), John E. Murdoch 1877, Edward Roger Owen 1028 (on leave fall term), Steven Ozment 6197, Katharine Park 2974, Susan Pedersen 1972, Bernard Septimus 7160, Roman Szporluk 3033, Hue-Tam Ho Tai 6079, Stephan Thernstrom 4141, Wei-Ming Tu 7233, Laurel Thatcher Ulrich 1886, Jeffrey G. Williamson 7680, John Womack, Jr. 1863, and Diana Wylie 2872*

Instructors listed above under History 3010 supervise individual work in preparation for the General Examination for the Ph.D. degree.

*Note:* Open ordinarily only to candidates for the Ph.D. 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 A.M. degree except by permission of the Department.

**\*History 3910 (formerly History 2910). The Practice of History**

Catalog Number: 1358

*Bernard Bailyn 1841*

*Half course (fall term). Tu., 3–5.*

Required of and limited to first-year doctoral students in History and joint degree programs in HEAL and HMES.

## History and Literature

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Members of the Steering Committee on Degrees in History and Literature*

Daniel G. Donoghue, Professor of English and American Literature and Language (*Chair, fall term*)

Stephen J. Greenblatt, Professor of English and American Literature and Language (*Chair, spring term*) (*on leave fall term*)

Richard Charles Adams, Assistant Professor of English and American Literature and Language and of History and Literature

K. Anthony Appiah, Professor of Afro-American Studies and of Philosophy

Steven H. Biel, Lecturer on History and Literature, Director of Studies, History and Literature



Ann M. Blair, John L. Loeb Associate Professor of the Social Sciences  
 Lawrence Buell, Harvard College Professor and the John P. Marquand Professor of English  
 James Engell, Professor of English and Comparative Literature  
 Bradley S. Epps, Professor of Romance Languages and Literatures  
 Ruth Feldstein, Assistant Professor of History and of History and Literature  
 Virginie Greene, Assistant Professor of Romance Languages and Literatures and of History and Literature  
 Alan Heimert, Powell M. Cabot Professor of American Literature (*on leave 1999-00*)  
 Kristin Lee Hoganson, Assistant Professor of History and of History and Literature (*on leave 1999-00*)  
 Robert Kiely, Donald P. and Katherine B. Loker Professor of English  
 Barbara K. Lewalski, William R. Kenan, Jr., Professor of History and Literature and of English Literature  
 Christie McDonald, Smith Professor of French Language and Literature  
 Susan Pedersen, Professor of History  
 John Stauffer, Assistant Professor of History and Literature and of English and American Literature and Language  
 Alfred Thomas, John L. Loeb Associate Professor of the Humanities

***Affiliated Members of the Committee on Degrees in History and Literature***

David D. Hall, Professor of American Religious History on the Bartlett and Emerson Funds (*Divinity School*)  
 Francisco Márquez, Arthur Kingsley Porter Professor of Romance Languages and Literatures  
 Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of Afro-American Studies (*on leave 1999-00*)  
 Helen Vendler, Arthur Kingsley Porter University Professor

***Other Faculty Offering Instruction in the History and Literature Program***

W. Nathan Alexander, Instructor in History and Literature  
 Ala A. Alryyes, Lecturer on History and Literature  
 Caroline D. Alyea, Lecturer on History and Literature  
 Clara (Pleun) Bouricius, Lecturer on History and Literature  
 David Lee Brandenberger, Lecturer on History and Literature  
 Jeffrey Randall Collins, Lecturer on History  
 Alan Ralph Cooper, Lecturer on History and Literature  
 Barbara M. Corbett, Lecturer on History and Literature  
 Neal L. Dolan, Lecturer on History and Literature  
 Erika Dreifus, Lecturer on History and Literature  
 Carlos Ramiro Espinosa, Lecturer on History and Literature  
 Jonathan Andrew Fortescue, Instructor in History and Literature  
 Andrew J. Furer, Lecturer on History and Literature  
 Melinda G. Gray, Lecturer on History and Literature  
 Steven J. Holmes, Lecturer on History and Literature  
 Christoph Irmscher, Lecturer on History and Literature



Daniel Itzkovitz, Lecturer on History and Literature  
 Dirk Killen, Lecturer on History and Literature  
 Stephanie Susan LeMenager, Lecturer in History and Literature  
 Camille Lizarribar, Lecturer on History and Literature  
 Anne Lynn Lounsbery, Lecturer in History and Literature  
 Patricia C. Lynch, Lecturer on History and Literature  
 Matthew William Maguire, Lecturer in History and Literature  
 Timothy Alan Milford, Lecturer on History and Literature  
 Mark Christopher Molesky, Instructor in History and Literature  
 Martha Jane Nadell, Head Teaching Assistant in Afro-American Studies  
 Adam R. Nelson, Lecturer on History and Literature  
 Elisabeth B. Nichols, Lecturer on History  
 John Timothy O'Keefe, Lecturer in History and Literature  
 William Albert Pannapacker, Lecturer on History and Literature  
 Lillian Paula Porten, Lecturer on Literature  
 Alex Sagan, Lecturer on History and Literature  
 Nathaniel Taylor, Lecturer on History and Literature  
 William Conrad Weitzel, Lecturer in History and Literature  
 Abby Wolf, Lecturer on English and American Literature and Language, Lecturer on History and Literature

*Primarily for Undergraduates*

**\*History and Literature 91r. Supervised Reading and Research**

Catalog Number: 0334

*Steven H. Biel and members of the Committee*

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

The study of selected topics in history and literature.

*Note:* Permission of the Director of Studies required. In addition to individually supervised reading and research, History and Literature offers small group courses on selected topics. These may be open to qualified freshmen or nonconcentrators with the permission of the instructor. These courses are posted in the History and Literature office.

**\*History and Literature 97. Tutorial — Sophomore Year**

Catalog Number: 4177

*Steven H. Biel and members of the Committee*

*Full course. Hours to be arranged.*

*Note:* Ordinarily taken by honors sophomores as a full course. Nonconcentrators wishing to take a half or full year of the Middle Ages, Europe from c. 1300 to c. 1750, Britain, Russia, Germany, Latin America, or France sophomore tutorials may do so with the permission of the Director of Studies. To take one semester only, a divide with credit petition must be filed. This is an opportunity for freshmen and others who would like the benefit of the course without committing to the concentration.

**\*History and Literature 98r. Tutorial — Junior Year**

Catalog Number: 2766



*Steven H. Biel and members of the Committee*

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

*Note:* Ordinarily taken as two half courses by honors juniors. Required of all concentrators.

**\*History and Literature 99. Tutorial — Senior Year**

Catalog Number: 5362

*Steven H. Biel and members of the Committee*

*Full course. Hours to be arranged.*

*Note:* Ordinarily taken by honors 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***

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of Afro-American Studies (*Chair*) (*on leave 1999-00*)

Sven Beckert, Assistant Professor of History (*on leave 1999-00*)

Morton J. Horwitz, Charles Warren Professor of American Legal History (*Law School*) (*Acting Chair, 1999-00*)

Richard Charles Adams, Assistant Professor of English and American Literature and Language and of History and Literature

Sacvan Bercovitch, Charles H. Carswell Professor of English and American Literature and Language

Lizabeth Cohen, Howard Mumford Jones Professor of American Studies

Lawrence Buell, Harvard College Professor and the John P. Marquand Professor of English

Catherine A. Corman, Assistant Professor of History (*on leave fall term*)

Henry Louis Gates, Jr., W.E.B DuBois Professor of the Humanities

David D. Hall, Professor of American Religious History on the Bartlett and Emerson Funds (*Divinity School*)

Alan Heimert, Powell M. Cabot Professor of American Literature (*on leave 1999-00*)

Evelyn Brooks Higginbotham, Professor of History and of Afro-American Studies (*on leave 1999-00*)

James T. Kloppenberg, Professor of History (*on leave spring term*)

Ernest R. May, Charles Warren Professor of American History



Michael J. Sandel, Harvard College Professor and Professor of Government  
 Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English  
 Theda Skocpol, Victor S. Thomas Professor of Government and of Sociology  
 Doris Sommer, Professor of Romance Languages and Literatures  
 John Stauffer, Assistant Professor of History and Literature and of English and American  
 Literature and Language  
 Laurel Thatcher Ulrich, Professor of History and Director of the Charles Warren Center for  
 Studies in American History  
 Cornel West, Alphonse Fletcher, Jr., University Professor and Professor of Afro-American  
 Studies (*FAS*) and Professor of the Philosophy of Religion (*Divinity School*)

***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*)  
 Philip J. Fisher, Felice Crowl Reid Professor of English and American Literature  
 Donald Fleming, Jonathan Trumbull Professor of American History (*on leave 1999-00*)  
 Akira Iriye, Charles Warren Professor of American History  
 Thomas K. McCraw, Isidor Straus Professor of Business History (*Business School*)  
 Helen Vendler, Arthur Kingsley Porter University Professor  
 Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative  
 Literature (*on leave spring term*)

This program is interdisciplinary. For further information about the variety of course offerings in  
 specific departments, consult the office of the Committee, Barker Center 225, 12 Quincy Street.

Students are also referred to the following course offered at the Law School: Legal History  
 41900-11. American Legal History 1890—1960.

***Primarily for Graduates***

**\*American Civilization 370 (formerly American Civilization 270). Colloquium in American  
 Civilization**

Catalog Number: 3662

*Members of the Committee*

*Half course (fall term). M., 3–5.*

*Note:* The Colloquium is required of and limited to all first-year graduate students in American  
 Civilization.

***Graduate Courses of Reading and Research***

**\*American Civilization 398. Reading and Research**

Catalog Number: 1710

*Richard Charles Adams 1665, Sven Beckert 2415 (on leave 1999-00), Sacvan Bercovitch 7638,  
 Allan M. Brandt 3031, Lawrence Buell 2655, Elizabeth Cohen 3627, Philip J. Fisher 1470,  
 Donald Fleming 1831 (on leave 1999-00), Henry Louis Gates, Jr. 2899, William E. Gienapp*



2109, David D. Hall (Divinity School) 2510, Alan Heimert 1631 (on leave 1999-00), Evelyn Brooks Higginbotham 3517 (on leave 1999-00), Morton J. Horwitz (Law School) 6272, William R. Hutchison (Divinity School) 4061 (on leave fall term), Akira Iriye 1968, Barbara E. Johnson 7626, Thomas K. McCraw (Business School) 7371, Werner Sollors 7424 (on leave 1999-00), Stephan Thernstrom 4141, Laurel Thatcher Ulrich 1886, Helen Vendler 7226, Cornel West 1212, and Ronald Yanosky 3207

**\*American Civilization 399. Direction of Doctoral Dissertations**

Catalog Number: 8803

Sacvan Bercovitch 7638, Allan M. Brandt 3031, Lawrence Buell 2655, Philip J. Fisher 1470, Donald Fleming 1831 (on leave 1999-00), Henry Louis Gates, Jr. 2899, William E. Gienapp 2109, David D. Hall (Divinity School) 2510, Alan Heimert 1631 (on leave 1999-00), Evelyn Brooks Higginbotham 3517 (on leave 1999-00), Morton J. Horwitz (Law School) 6272, William R. Hutchison (Divinity School) 4061 (on leave fall term), Akira Iriye 1968, Thomas K. McCraw (Business School) 7371, Werner Sollors 7424 (on leave 1999-00), John R. Stilgoe 8032, Stephan Thernstrom 4141, and Laurel Thatcher Ulrich 1886

*Cross-listed Courses*

[History 1618. Material Life in Early America](#)

[History 1632. Gilded Age America: Economy, Society and Politics: Conference Course]

[History 1654. The History of American Capitalism: From the Industrial Revolution to World War I: Conference Course]

[History 1656. The 19th Century Bourgeoisie: Western Europe and the U.S.: Seminar]

[History 1950. Comparative Labor History: U.S., France, Great Britain, and Germany: 1789–1914: Conference Course]

[History 2601. The U.S. in the 20th Century: Seminar](#)

[History 2603. The United States in the 20th Century](#)

[History 2605. Culture and Society in Early America](#)

[History 2662. Readings in American Thought](#)

[Religion 1504. Religion in America: From the Coming of the Europeans to the 1870s](#)

[Religion 1515. Religion and Culture in 19th-Century America and Europe: Seminar]

[Religion 2464. Radical Religion in England and America, 1550–1750: Seminar](#)

[Spanish 265. A Bilingual Esthetic](#)

## History of Art and Architecture

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of History of Art and Architecture*



Suzanne P. Blier, Professor of the History of Art and Architecture  
 John Baines, Martha A. Willcomb Visiting Professor on Ancient Egyptian Civilizations (*Oxford University*)  
 Yve-Alain Bois, Joseph Pulitzer, Jr. Professor of Modern Art (*Acting Chair*)  
 Pramod Chandra, George P. Bickford Professor of Indian and South Asian Art  
 James Cuno, Professor of History of Art and Architecture and Elizabeth and John Moors Cabot Director of the Harvard University Art Museums  
 Valentin Groebner, Visiting Associate Professor of History of Art and Architecture  
 Alice G. Jarrard, Assistant Professor of History of Art and Architecture (*on leave 1999-00*)  
 Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art (*Chair*) (*on leave fall term*)  
 Joseph Koerner, Professor of History of Art and Architecture (*on leave 1999-00*)  
 Ewa Lajer-Burcharth, Harris K. Weston Associate Professor of the Humanities  
 Neil Levine, Emmet Blakeney Gleason Professor of History of Art and Architecture (*on leave fall term*)  
 David Gordon Mitten, James Loeb Professor of Classical Art and Archaeology  
 Serafín Moralejo, Fernando Zobel de Ayala Professor of Spanish Art (*on leave fall term*) (*on leave fall term*)  
 Gülru Necipoglu-Kafadar, Aga Khan Professor of Islamic Art (*Director of Undergraduate Studies*)  
 David J. Roxburgh, Assistant Professor of History of Art and Architecture (*on leave 1999-00*)  
 John Shearman, Adams University Professor  
 Rabun Taylor, Assistant Professor of History of Art and Architecture  
 Eugene Yuejin Wang, Assistant Professor of History of Art and Architecture  
 Cherie A. Wendelken, Assistant Professor of History of Art and Architecture (*on leave spring term*)  
 Irene J. Winter, William Dorr Boardman Professor of Fine Arts (*on leave 1999-00*)  
 Henri Zerner, Professor of History of Art and Architecture (*Director of Graduate Studies*)

### ***Museum Associates***

Anne M. Anninger, Lecturer on History of Art and Architecture and Philip Hofer Curator of Printing and Graphic Arts in the Harvard College Library  
 Marjorie B. Cohn, Senior Lecturer on History of Art and Architecture and Curator of Prints, Harvard University Art Museums  
 Harry A. Cooper, Lecturer on History of Art and Architecture, and Associate Curator of Modern Art, Harvard University Art Museums  
 Eugene F. Farrell, Lecturer on History of Art and Architecture and Senior Conservation Scientist in the Harvard University Art Museums  
 Ivan Gaskell, Senior Lecturer on History of Art and Architecture and Margaret S. Winthrop Curator of Paintings, Harvard University Art Museums  
 Henry W. Lie, Lecturer on History of Art and Architecture and Senior Conservator of Objects and Sculpture, Straus Center for Conservation, Harvard University Art Museums  
 Robert D. Mowry, Senior Lecturer on History of Art and Architecture and Curator of Chinese Art and Head of Asian Art, Harvard University Art Museums  
 Peter Nisbet, Senior Lecturer on History of Art and Architecture and Daimler-Benz Curator of the Busch-Reisinger Museum



William W. Robinson, Senior Lecturer on History of Art and Architecture and Ian Woodner  
Curator of Drawings in The Fogg Art Museum  
Stephan S. Wolohojian, Lecturer on History of Art and Architecture and Associate Curator of  
Paintings, Sculpture, and Decorative Arts, Harvard University Art Museum

Note: The department has decided on the name History of Art and Architecture because of its normative character and its clarity in describing our discipline and what it is we actually do. The term ‘fine arts’ is misleading in that it was historically based on a type of hierarchy of the arts, namely the *fine* as opposed to the decorative or applied arts, which no longer is operative in the way much of the art history we deal with is taught.

Courses in the History of Art and Architecture undergraduate curriculum are structured as a three-tier system, consisting of a sequence of entry-level courses, field-specific introductory courses, and upper-level courses. For the concentrator, these are supplemented by tutorials. Passage through the sequence from entry level to more advanced classes is encouraged—particularly for prospective concentrators. Literature and Arts B-10 *Art and Visual Culture: Introduction to the Historical Study of Art and Architecture*, using paradigmatic works of art, introduces concepts by which the visual arts can be understood and analyzed. The course is required of concentrators; it is also intended as a basic course for students not intending to concentrate. History of Art and Architecture 11, *Landmarks of World Architecture*, examines great monuments in world architecture, from ancient times to the 20th century, and the unique aesthetic, cultural, and historical issues that frame them. History of Art and Architecture 70, *Introduction to Modern Art and Visual Culture, 1700–1990s*, examines modernity, and the place of visual representation in modern culture. The course will cover the whole range of modern media from sculpture, prints, and photography to video, installation art, and performance art. History of Art and Architecture 12–19 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 nonconcentrators with an interest in a particular subject within History of Art and Architecture. History of Art and Architecture 100-199 courses tend to focus upon a particular problem or set of materials within a subfield.

### ***Primarily for Undergraduates***

Attention is called to courses offering studio experience in visual arts in the Department of Visual and Environmental Studies and in the Core Program (Literature and Arts B).

#### **[History of Art and Architecture 11. Landmarks of World Architecture](#)**

Catalog Number: 3675

*Neil Levine and members of the Faculty*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

This course will examine great monuments in world architecture, from ancient times to the 20th century, and the unique aesthetic, cultural, and historical issues that frame them. Members of the History of Art and Architecture faculty will each lecture on a building in their area of expertise. These will include the Palace of Versailles, St. Peter’s in Rome, the Taj Mahal, Hagia Sophia, the Alhambra, Chartres Cathedral, the Royal Court of Benin, the Palaces at Nineveh and at Katsura, the Paris Opera House, and the Guggenheim Museum. Weekly sections will focus more generally on key questions in the analysis and interpretation of architecture.



**[History of Art and Architecture 12. Early Islamic Art and Architecture (650-1250)]**

Catalog Number: 7236

*David J. Roxburgh*

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

An introductory survey of the architecture, ceramics, metalwork, and arts of the book from Spain to India and Central Asia, during the period between the rise of Islam and Mongol conquests. Focusing on the patronage of ruling elites in principal urban centers, the architecture and material culture of the Islamic world will be approached through a variety of contexts: cultural, political, socio-economic, and aesthetic.

*Note:* Expected to be given in 2000–01. This survey complements Fine Arts 12d: Introduction to Later Islamic Art and Architecture (1250–1800).

**[History of Art and Architecture 12d. Introduction to Later Islamic Art and Architecture (1250–1800)]**

Catalog Number: 3027

*Gülru Necipoglu-Kafadar*

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

An introductory survey of the masterpieces of later Islamic art and architecture from the Mongol conquests in the early 13th century to the modern era. Architectural monuments, the applied arts, and the arts of the book from Spain to the borders of China will be treated in their cultural, political, socio-economic, and aesthetic contexts. The visual culture of the Islamic world will be analyzed within a dynastic perspective, highlighting the goals of patrons belonging to ruling elites.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 13h. Foundations of Early Civilization: An Introduction to the Art of Ancient Mesopotamia]**

Catalog Number: 7382

*Irene J. Winter*

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

Survey of the art and archaeology of ancient Mesopotamia from Uruk through the Neo-Assyrian periods, charting the relationship between the arts and society from the earliest city-states to the beginnings of empire. Includes a survey of archaeological data as well as those art-historical approaches available for analysis of ancient monuments.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 13k. Introduction to Roman Art and Architecture]**

Catalog Number: 1426

*Rabun Taylor*

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

At its height, the Roman Empire extended from Scotland to Syria, and from the North Sea to the Sahara. This course examines the art and architecture produced in lands under Roman rule during a one thousand year period, from Rome's beginnings as an Etruscan city in the 7th century BCE to the Christianizing of Rome in the 4th century CE.

*Note:* Expected to be given in 2000–01.



**[History of Art and Architecture 14e. Introduction to Western Medieval Art and Architecture]**

Catalog Number: 8325

*Serafin Moralejo*

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

A millennium of Western art and architecture, from the Age of the Invasions to the full establishment of an urban society. Particular attention to the turning points of the period combined with thematic approaches.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 15d. Introduction to Italian Renaissance Painting and Sculpture ca. 1260–1600]**

Catalog Number: 1682

*John Shearman*

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

An introduction to the major personalities and events in four Italian styles: Gothic, Renaissance, High Renaissance, and Mannerist. The approach assumes that we are concerned essentially with history—with one branch of a large family of historical studies. The works of art are thus studied in the context of whatever human, social, political, technological, or economic circumstances are most appropriate. The course is a highly selective survey. The lectures vary widely in method and focus, a secondary intention being to illustrate the concerns of art history as a discipline.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 16d. Introduction to Northern Renaissance and Baroque Painting and Sculpture]**

Catalog Number: 1929

*Joseph Koerner*

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

Surveys the major monuments of Netherlandish and German painting and sculpture between 1400 and 1600. Special attention will be given to questions of function, genre, and relations between art and literature.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 17 (formerly Fine Arts 17e). Introduction to 19th-Century European Art]**

Catalog Number: 3070

*Ewa Lajer-Burcharth*

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

Surveys 19th-century European art from 1780s to 1880s (Neoclassicism to Post-Impressionism) emphasizing the relation between painting, sculpture and modern visual culture at large.

Discusses the nascent mythologies of the modern artist; art in the revolutions; representations of modern life; the nexus of gender, sexuality and modernity. Focuses on the major artists, from David, Vigée-Lebrun, Goya, Turner and Friedrich to Bonheur, Morisot, Monet and Cézanne.

Two visits to the museums.

*Note:* Expected to be given in 2000–01.



**[History of Art and Architecture 17d. Introduction to 18th-Century European Art]**

Catalog Number: 1313

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

Examines the interaction in 18th-century Europe between the visual arts and politics, economic and social history, literature and philosophy. Topics include the changing nature of the ‘public sphere’; ideologies of private and domestic life; visual representation in relation to ideas of gender and sexuality; the representation of history. Centered on cultural life in France and Great Britain, explores the work of major artists from Watteau to David, including Hogarth, Fragonard, Chardin, Reynolds, and Greuze.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 17j. Introduction to Modern Art]**

Catalog Number: 1432

*Yve-Alain Bois*

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

The term “modernism” is widely used but rarely defined. A variety of texts addressing this issue are examined, mainly from the 1920s. The works and manifestos of artists such as Léger, Malevich, and Mondrian, of film directors such as Eisenstein and Vertov, or architects such as Le Corbusier and Hannes Meyer, and of many other practitioners in other cultural fields, are analyzed in detail.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 17x. Architecture Between Revolution and Modernism: The 19th Century]**

Catalog Number: 4968

*Neil Levine*

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

An introduction to the major monuments, architects, and theories of 19th-century architecture and urbanism. Focus will be on the development of new forms of expression in Europe and America, in response to such issues as the rise of nationalism, the growth of the city, new building types from the middle class, new technologies, and colonial expansion.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 18d. Introduction to the Art and Architecture of India](#)**

Catalog Number: 6967

*Pramod Chandra*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

Gives a general idea of ancient Indian architecture, sculpture, and painting through carefully selected monuments and themes. Visual analysis and the importance of artistic evidence in the understanding of the sketchy historical record of the country are emphasized.

**[History of Art and Architecture 18g. Introduction to the Art and Architecture of Japan]**

Catalog Number: 2470

*Cherie A. Wendelken*

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



A survey of Japanese art and architecture from prehistoric times to the 20th century. The major achievements of each period are examined in the context of cultural history, with emphasis on the relationship between the arts and place-making.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 18x. Introduction to the History of Chinese Art]**

Catalog Number: 6003

*Eugene Yuejin Wang*

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

This course surveys Chinese art and architecture from antiquity to the recent avant-garde. Though the introduction follows a chronological order, it is also thematically motivated. We will see how visual artifacts—paintings, sculptures, architectural monuments—both consciously encode different pragmatic agendas and circumstantial exigencies and unconsciously betray cultural anxieties and tensions. The purpose is to enable students to look at Chinese history in visual terms and to view visual objects in historical terms, with a critique of the perception of Oriental art as static aesthetical objects suspended in a timeless vacuum.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 19 (formerly Fine Arts 19d). Image, Icon, and Identity: Introduction to the Art of Africa]**

Catalog Number: 8872

*Suzanne P. Blier*

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

This course examines key issues in African art. It is designed both to be an introduction to the rich and diverse arts of Africa and to serve as a forum for the critical evaluation of related theoretical issues. Each class will explore the art of a single civilization (discussing as well concomitant traditions in religion, philosophy, politics, history) while also focusing on a larger theoretical concern—gender, representation of the “other,” aesthetics, artistic creation, psychology, performance art, and the like.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 35. Roman Art and Society](#)**

Catalog Number: 8831

*Rabun Taylor*

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

What can Roman art tell us about attitudes toward gender roles, sexuality, aggression, social status, death and the afterlife, and other everyday human concerns in the ancient world? Drawing upon recent scholarship and a wide variety of visual material from humble terracotta lamps to luxury mosaics, from cameos to colossi, this course will examine art as a rich and subtle medium of social suggestion in the public and private spheres of Roman life.

**[History of Art and Architecture 62. Painting and Sculpting in Italy, 1575–1700]**

Catalog Number: 7086

*Alice G. Jarrard*

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

Examines notions of invention, genre, patronage, function and audience in 17th-century Italian



art. The settings for these historical investigations include Bologna, Rome and Naples; artists range from Algardi and Bernini to the Carracci, Caravaggio, Reni, Poussin, Pietro da Cortona, and Claude Lorrain.

*Note:* Expected to be given in 2000–01.

**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). Tu., Th., at 11. EXAM GROUP: 13*

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? Central to the course will be examination of the place of the body and of sexuality in different stylistic regimes—in rococo, Neo-classicism, Impressionism, Abstraction, and beyond; as well as changing conceptions of ‘identity’ in relation to national, imperial, and post-colonial contexts. The course will examine the whole range of modern media, from painting, sculpture, prints, and photography to video, installation, and performance art.

**\*History of Art and Architecture 91r. Directed Study in History of Art and Architecture**

Catalog Number: 1028

*Gülru Necipoglu-Kafadar and members of the Faculty*

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

*Note:* Open only 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

*Gülru Necipoglu-Kafadar and members of the Faculty*

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

**\*History of Art and Architecture 98ar. Advanced Tutorial**

Catalog Number: 1328

*Gülru Necipoglu-Kafadar and members of the Faculty*

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

*Note:* Required of concentrators.

*Prerequisite:* History of Art and Architecture 97r.

**\*History of Art and Architecture 98br. Advanced Tutorial**

Catalog Number: 3507

*Gülru Necipoglu-Kafadar and members of the Faculty*

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

*Note:* Required of concentrators.

*Prerequisite:* History of Art and Architecture 97r.



**\*History of Art and Architecture 99. Tutorial — Senior Year**

Catalog Number: 3118

*Members of the Faculty*

*Full course. Hours to be arranged.*

*Note:* Intended primarily 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

*Eugene F. Farrell and staff*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

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.

*Prerequisite:* History of Art and Architecture concentration or two previous art history courses.

**[History of Art and Architecture 105. 19th-Century Printmaking]**

Catalog Number: 5571 Enrollment: Limited to 12

*Marjorie B. Cohn and James Cuno*

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

This seminar will explore the techniques (both original and reproductive), social history, and connoisseurship of 19th-century French prints. It will be taught entirely from originals in the Fogg Art Museum. Among the artists to be considered will be Géricault, Delacroix, Daumier, Meryon, Bresdin, Manet, Degas, Pissarro, Toulouse-Lautrec, and Bonnard.

*Note:* Expected to be given in 2000–01.

**History of Art and Architecture 106x. Prints From Then Till Now**

Catalog Number: 2475 Enrollment: Limited to 10

*Marjorie B. Cohn*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

A history of Western printmaking, focusing on the origins, functions, and changing fortunes of woodcut, engraving, etching, lithography, and other fine art print techniques. The work of major artists, such as Dürer, Rembrandt, Goya, and Picasso, is analyzed, but the emphasis is on aspects of prints inherent in the medium, such as the role of prints in fostering the development of graphic conventions, their production in collaborative enterprises, and their uses as multiples. Students are encouraged to work on prints and printmakers from time periods and geographical regions of particular interest to them.

**History of Art and Architecture 124z. Architecture and Dynastic Legitimacy: The Ottoman, Safavid, and Mughal Empires**

Catalog Number: 4604

*Gülru Necipoglu-Kafadar*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*



In the 16th century, three great regional empires partitioned among themselves 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 distinct architectural idioms. The formation of these autonomous architectural modes is traced from their common origins in the 15th-century Timurid heritage. The building types each empire emphasized are studied as an index of differing imperial ideologies and theories of dynastic legitimacy. Variations in the architectural practices of the Mediterranean, Iran, and India are stressed, together with differing modes of architectural decoration.

### **History of Art and Architecture 130. Topography and Monuments of Ancient Rome**

Catalog Number: 4494

*Rabun Taylor*

*Half course (fall term). Th., 1–3. EXAM GROUP: 16, 17*

This course is 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 will 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 will confront the city as an organic and historical entity.

### **History of Art and Architecture 135m. Ancient Egyptian Art and Architecture**

Catalog Number: 8663

*John Baines (Oxford University)*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Survey of ancient Egyptian art, from the late 4th millennium BC to the Greco-Roman period, against the background of social, intellectual, and historical developments. Architecture is both the fundamental artistic form and the context in which works of art were sited or enacted. The course concentrates on relief, painting, and sculpture in the round, while extending to minor and ephemeral arts, and including such special genres as the stela and the sarcophagus. Theoretical issues relate to the role of art in civilization, representational forms, text and image, and iconography.

### **[History of Art and Architecture 137. Cross-Cultural Aesthetics: Proseminar]**

Catalog Number: 0302 Enrollment: Limited to 10

*Irene J. Winter*

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

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.

*Note:* Expected to be given in 2000–01.

### **[History of Art and Architecture 139x. Roman Pompeii and Herculaneum ]**

Catalog Number: 9125 Enrollment: Limited to 15

*Rabun Taylor*



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

Herculaneum and Pompeii and their surrounding villas are arousing more scholarly interest today than ever. This course will examine the sites from the perspectives of modern archaeology, urban studies, art and architectural history, and landscape architecture. Students will essay new theories of domestic and public space; static and kinetic approaches to public architecture; the practical and aesthetic uses of gardens and horticulture; the application and meaning of art in spatial context, such as wall frescoes, furniture, and sculpture; the workings of public spectacle; and the overall imprint of change as these old Campanian towns grew into thriving Roman ones.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 140r. Byzantine Art]**

Catalog Number: 3687 Enrollment: Limited to 12

*Ioli Kalavrezou*

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

Focus is on material from the sphere of personal devotion and practice in connection with relics and other protective or healing objects.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 142x. The Appearance of the Altarpiece](#)**

Catalog Number: 4149 Enrollment: Limited to 12

*Stephan S. Wolohojian*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

This seminar will study the emergence of the altarpiece in Italy, c. 1200-1350. It will analyze the formal development of the altar image while examining it as a broader visual category in western art. The altarpiece will be studied in relation to devotional practice, the role played by new religious orders, civic identity, the presence of the altar image in liturgical and ecclesiastical contexts, and in light of the critical and theoretical scholarship that has been devoted to it. The course will also take advantage of the university's important collection of Early-Italian painting.

**[History of Art and Architecture 147x. Modes of Visualization in Europe 1000-1500](#)**

Catalog Number: 7270

*Valentin Groebner*

*Half course (spring term). Tu., Th., at 10.*

The course gives a general introduction into modes of visual perception in Medieval and Renaissance Europe. It will focus less on theories of vision and art themselves (although concepts of representation and theories of the gaze will play an important role) but rather on the practices of visualization in materials, religious and political cultures, i.e. on the relationship between things visible and invisible before the Reformation.

**[History of Art and Architecture 149x. Antique Figures in Medieval Landscapes]**

Catalog Number: 2812

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

Discusses the new and fancy lives that some ancient characters (gods, demigods, heroes, rulers, and poets) were accorded to live in medieval imagination. Particular emphasis on iconographic programs and correlated literary sources.

*Note:* Expected to be given in 2000–01.



**History of Art and Architecture 158r. The Renaissance in France**

Catalog Number: 6292

*Henri Zerner*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Focuses on a limited aspect of Renaissance Art in France, but always examines a substantial body of material. This year the course will examine the visual arts before the reign of Francis I beginning with the pre-Renaissance at the time of Charles V.

**[History of Art and Architecture 171r. Imitation, Copy, Reproduction]**

Catalog Number: 8736 Enrollment: Limited to 12

*Henri Zerner*

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

Examines theoretical texts (Quatremère de Quincy, Benjamin, Krauss, Schiff, etc.) as well as actual works of art. Discusses such issues as the development of reproductive prints, and the 1960s phenomenon of multiples as well as the concept of originality and the role of quotation in art.

*Note:* Expected to be given in 2000–01.

**History of Art and Architecture 171t. Degas: Beyond Impressionism**

Catalog Number: 7454 Enrollment: Limited to 50

*James Cuno*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Examination of the character and meaning of Degas' idiosyncratic body of work in light of recent revisionist histories of Impressionism. Special emphasis will be placed on works in the collection of the Fogg Art Museum.

**History of Art and Architecture 171x. The Fifties: Art in Europe and America**

Catalog Number: 6297 Enrollment: Limited to 12

*Yve-Alain Bois*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

This is a "period" course in which the geographic barrier separating Europe and the U.S. in the standard historical accounts will be analyzed and put to check. Cross-fertilization as well as radical differences between the two contexts will be underlined (Informel, Yves Klein, Early Pop, Twombly, etc.)

**History of Art and Architecture 173y. Difference from Within: Contemporary Women Artists**

Catalog Number: 7251 Enrollment: Limited to 12

*Ewa Lajer-Burchard*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Examines the works of important European and American women artists from the 1950s to the present, including Lee Krasner, Eva Hesse, Hannah Wilkie, Judy Chicago, Rebecca Horn, Mary Kelly, Adrian Piper, Cindy Sherman, and Janine Antoni, among others. Explores the ways of thinking about their art as a representation of difference understood as a historically contingent cultural values rather than a natural or innate quality. Seeks less to pit male vs. female artist than



to open up a discussion of the women artist herself as a locus of difference(s) and of the diversity and difference among women's aesthetic productions.

### **History of Art and Architecture 177y. Cézanne and his Legacy**

Catalog Number: 3686

*Harry A. Cooper*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Paul Cézanne was arguably the most important painter of the French post-impressionist era. This course will survey Cézanne's long career, emphasizing the formal development of his art and its varying interpretations in the 20th century. Attention will also be paid to his importance for later modern painters.

### **History of Art and Architecture 184x. Painting of India**

Catalog Number: 7460 Enrollment: Limited to 12

*Pramod Chandra*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

The course examines some important styles, notably ancient wall painting as preserved at Ajanta, western Indian Manuscript painting, the Mughal School patronized by the emperor Akbar and its origins, and 17th-century painting from selected states of Rajasthan. patronage, and the relationship of painting to literature, music, religion, and political, social, and cultural conditions will also be studied.

### **History of Art and Architecture 185. Chinese Calligraphy as Texture of Culture: Proseminar**

Catalog Number: 8966 Enrollment: Limited to 12

*Eugene Yuejin Wang*

*Half course (spring term). W., 3–5.*

The course examines Chinese calligraphy and the discourse it has inspired. We will see how calligraphic styles serve as rhetorical cues and organizing structures for viewers to articulate polemic positions, ideological stances (e.g. Confucian, Chan-Buddhist, Daoist, etc.), political allegiances, and moral sentiments. Emphasis is given to crucial moments and key calligraphers (e.g. the Two Wangs, the Early-Tang and the Song Masters) who shaped calligraphic history and engendered discourse. The goal is to develop and combine a trained eye, a critical strategy, and a historical knowledge with which cultural significances can be detected and uncovered from the visual texture of calligraphy.

### **History of Art and Architecture 193x. African Architecture**

Catalog Number: 2739 Enrollment: Limited to 12

*Suzanne P. Blier*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

### **History of Art and Architecture 246x. Spiritual Seeing: Imaging God's Invisibility**

Catalog Number: 7140 Enrollment: Limited to 12

*Herbert Kessler*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Using medieval theories about the apprehension of God, the seminar examines



artistic presentation of the invisible Deity to human sight, e.g. the role of words within pictures, function of ornament, and devices used to suggest the dematerialization of physical images. Students explore the problems through detailed analysis of single monuments.

*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

*Sarah Williams Ksiazek (Design School)*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

For all students interested in the methodological and theoretical concerns of architectural history. Considering the various environmental, tectonic, spatial, interpretive, and professional dimensions of architecture, topics will range from theories of site, function, and meaning to the role of drawings, the client-architect relationship and concepts of restoration and preservation.

*Note:* Open to qualified undergraduates.

**[History of Art and Architecture 206. Science and the Practice of Art History ]**

Catalog Number: 6180 Enrollment: Limited to 12.

*John Shearman and Henry W. Lie*

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

To equip the historian with critical and informed approaches to the range, uses, ambiguities, instruments, and computer applications of scientific, diagnostic investigation of art and architecture, potentially in all media and periods. In short: better to know what we are looking at. In collaboration with specialists in the Straus Center.

*Note:* Expected to be given in 2000–01.

**History of Art and Architecture 225. Critical Issues in Islamic Art and Architecture**

Catalog Number: 2819 Enrollment: 12

*Gülru Necipoglu-Kafadar*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A critical examination of major issues and methodological problems that have shaped the field since its construction in the 19th century. Themes include the Orientalist discourse on Islamic art and the Islamic city, uses of the classical heritage, aniconism, the arabesque, calligraphy, collecting and exhibiting Islamic art.

**History of Art and Architecture 230. Hadrian's Villa: Tivoli and Beyond**

Catalog Number: 8853 Enrollment: Limited to 12

*Rabun Taylor*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Hadrian's villa at Tivoli culminated the Roman Architectural Revolution. Paying close attention to the villa's component parts and their unique articulation into a whole, students will investigate the site in light of its Greco-Roman context and of its later influence on Western architecture.

**[History of Art and Architecture 232. Assyrian Reliefs and the Visual Program of Assyrian Palace Design]**



Catalog Number: 5269 Enrollment: Limited to 12

*Irene J. Winter*

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

Inquiry into the major sculptural programs of Neo-Assyrian palaces, 9th through 7th centuries BCE. Special attention will be given to the historical surround of individual Assyrian rulers, and to royal texts [in translation] as a way to probe the meaning of the reliefs — their rhetorical function within the palace setting, and their visual impact — in Assyrian terms.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 234. Representation of the Environment in Ancient Egyptian Art](#)**

Catalog Number: 8852 Enrollment: Limited to 12

*John Baines (Oxford University)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

In Egyptian art, important settings in the built and natural environments are depicted both through representational features of architecture and through framing conventions and landscape features in reliefs, paintings, and other media. This seminar studies the use and meanings of setting, environment, and landscape in material from the 3rd to 1st millennia BCE.

**[History of Art and Architecture 235. Water in the Roman City: Architecture, Aesthetics, Politics]**

Catalog Number: 9309 Enrollment: Limited to 15

*Rabun Taylor*

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

The Roman image of civilized life presumed abundant water supplies for baths, pools, fountains, displays, gardens, nautical theater, and everyday consumption. Using physical and testimonial evidence, students will inquire how Roman urbanistic policy and architectural design responded to, and encouraged, the liberal use of water as both commodity and amenity.

*Note:* Expected to be given in 2000–01.

**[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.*

Focuses on a limited aspect of Byzantine art, but always examines a substantial body of material. Topic is different each year, to be determined in consultation with prospective students.

*Note:* Expected to be given in 2000–01.

**[History of Art and Architecture 246y. Tomb Sculpture and Gothic Courtly Imagery: A Walk with Madness, Love, and Death]**

Catalog Number: 9815 Enrollment: Limited to 15

*Serafin Moralejo*

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

The tombs that Peter I of Portugal (d. 1367) ordered for himself and his mistress Agnes, in Alcobaca, furnish the ‘pre-texts’ for a discussion of the interaction of art, literature, and life.



Topics include the Ages of man, Fate, Love, and Death; punishment and reward; and the iconographic projection of insanity.

**History of Art and Architecture 251r. Italian Art of the Renaissance: Seminar**

Catalog Number: 6632 Enrollment: Limited to 12.

*John Shearman*

*Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8*

Focuses on a limited aspect of Renaissance Art in Italy, but always examines a substantial body of material. Topic is different each year, to be determined in consultation with prospective students.

**History of Art and Architecture 252x. Arts of Verification: Identifying Individualism in Renaissance**

Catalog Number: 1291 Enrollment: Limited to 12

*Valentin Groebner*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

How were people identified in the centuries before the fingerprint? The course will investigate the changing paradigms of recognition and identification in the Renaissance, focusing not only on portraits but also on documents that highlight the not necessarily voluntary nature of ‘individuality’ and ‘personhood’: warrants of apprehension and identity papers.

**History of Art and Architecture 268y. Confronting Rubens**

Catalog Number: 8596 Enrollment: Limited to 10

*Ivan Gaskell*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

One painting by Rubens in the Fogg will be discussed, its subject and physical structure analyzed, its place in a concept of authority, in social history, and in the art museum examined. The seminar will consider the nature of the unique object and its relationship to reproductions. Reading knowledge of major European languages expected.

**History of Art and Architecture 275z. The Sixties and Beyond: Art in Europe and America, 1960–1975**

Catalog Number: 8498 Enrollment: Limited to 12

*Yve-Alain Bois*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

The emphasis will be put on the fast pace evolution of American art during the period extending from 1960 to 1975 (Pop, Minimalism, Process Art, Conceptual Art), but with an eye on what was happening in Europe at the same time (Nouveau Réalisme, Buren, Arte Povera, etc.) Special attention will be given to criticism.

**History of Art and Architecture 278y. Modern Art and Subjectivity, 18th Century to the Present**

Catalog Number: 2544 Enrollment: Limited to 12

*Ewa Lajer-Burcharth*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Explores the relation between art and the self in its different, modern configurations. How does



art contribute to the formation of subjectivity? What is the place of the visual image within broader cultural discourse of the self in the modern period? How are artists represented in their own works?

**[History of Art and Architecture 283. Early and Medieval Chinese Mortuary Art](#)**

Catalog Number: 2078 Enrollment: Limited to 12

*Eugene Yuejin Wang*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

This course explores art in the mortuary context of early and medieval China (2nd century BC to 11th Century AD). Media considered include paintings and stone engravings in tombs, ornamentation of sarcophagi, and reliquaries, etc. Issues to be explored include the shape of imaginary space and representation of the numinous and liminality.

*Cross-listed Courses*

**[Afro-American Studies 165y. African Women in Art and History](#)**

[Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200–300 BCE]

**[Classical Archaeology 136. Archaeology of the Aegean Bronze Age](#)**

**[Classical Archaeology 150. Archaic Greece](#)**

**[Classical Archaeology 160. Vase-painting and Iconography](#)**

**[Classical Archaeology 180. Coinage, Politics, and Economy in the Greek World](#)**

[German 155. Weimar Cinema: The Laboratory of Modernity]

[German 161. New German Cinema: Oppositional Energies and Utopian Designs]

**[German 295. Post-War to Post-Wall to Post-Union: The Politics of Cultural Production \(European Studies Seminar\)](#)**

**[History 1463. Paris From the French Revolution Through the 19th Century: Conference Course](#)**

**[Literature and Arts B-10. Art and Visual Culture: Introduction to the Historical Study of Art and Architecture](#)**

**[Literature and Arts B-21. The Images of Alexander the Great](#)**

[Literature and Arts B-27. Majesty and Mythology in African Art]

[Literature and Arts B-31. The Portrait]

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

**[Literature and Arts B-39. Michelangelo](#)**

[Literature and Arts B-44. The Architecture of Capital and Court in Western Europe, 1600–1800]

**[Medieval Studies 101 \(formerly History 2277\). The Auxiliary Disciplines of Medieval History: Proseminar](#)**

[Medieval Studies 105. Production of Manuscripts and Printed Books Before 1600]

**[Visual and Environmental Studies 143r. The Photographer as Auteur: Studio Course](#)**

**[\\*Visual and Environmental Studies 155ar. Film Architectures](#)**

**[\\*Visual and Environmental Studies 155br. A Cultural Study of Film: Mapping and Fashioning Space](#)**

**[\\*Visual and Environmental Studies 159ar. The Moving Image: Film and Visual](#)**



## Representation

**\*Visual and Environmental Studies 160. Modernization in the Visual United States Environment, 1890–2035**

**\*Visual and Environmental Studies 166. North American Seacoasts and Landscapes, Discovery to Present: Seminar**

## *Graduate Courses of Reading and Research*

### **\*History of Art and Architecture 300. Reading and Research**

Catalog Number: 5716

*Anne M. Anninger 1686, Suzanne P. Blier 3472, Yve-Alain Bois 2922, Pramod Chandra 7186, Marjorie B. Cohn 4468, Harry A. Cooper 1728, James Cuno 2925, Eugene F. Farrell 1009, Ivan Gaskell 3174, Alice G. Jarrard 2400 (on leave 1999-00), Ioli Kalavrezou 2242 (on leave fall term), Joseph Koerner 1954 (on leave 1999-00), Ewa Lajer-Burcharth 3373, Neil Levine 4178 (on leave fall term), Henry W. Lie 2575, David Gordon Mitten 1290, Serafín Moralejo 3324 (on leave fall term), Robert D. Mowry 1958, Gülru Necipoglu-Kafadar 1688, Peter Nisbet 1738, Gloria Ferrari Pinney 1384 (on leave spring term), William W. Robinson 2239, David J. Roxburgh 2138 (on leave 1999-00), John Shearman 1689, Rabun Taylor 4253, Eugene Yuejin Wang 3600, Irene J. Winter 1955 (on leave 1999-00), Stephan S. Wolohojian 2756, and Henri Zerner 3792*

Individual work in preparation for the General Examination for the Ph.D. 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

*Marjorie B. Cohn 4468, Ioli Kalavrezou 2242 (on leave fall term), and Henri Zerner 3792*  
*Members of the Fogg Museum Staff* — Curatorial research.

### **\*History of Art and Architecture 309. Thesis Colloquium and/or Thesis Defense**

Catalog Number: 6568

*Henri Zerner 3792*

*Note:* May not be counted toward course requirements for the Ph.D. degree, but is required before the degree may be granted.

### **\*History of Art and Architecture 318. Methods and Theory of Art History**

Catalog Number: 7879 Enrollment: Limited to 12

*Suzanne P. Blier 3472*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

### **\*History of Art and Architecture 399. Direction of Doctoral Dissertations**

Catalog Number: 6575

*Suzanne P. Blier 3472, Yve-Alain Bois 2922, Pramod Chandra 7186, James Cuno 2925, Alice G. Jarrard 2400 (on leave 1999-00), Ioli Kalavrezou 2242 (on leave fall term), Joseph Koerner 1954 (on leave 1999-00), Ewa Lajer-Burcharth 3373, Neil Levine 4178 (on leave fall term), David Gordon Mitten 1290, Serafín Moralejo 3324 (on leave fall term), Gülru Necipoglu-Kafadar 1688, David J. Roxburgh 2138 (on leave 1999-00), John Shearman 1689, Rabun Taylor*



4253, Eugene Yuejin Wang 3600, Cherie A. Wendelken 3471 (*on leave spring term*), Irene J. Winter 1955 (*on leave 1999-00*), and Henri Zerner 3792

*Note:* May not be counted toward course requirements for the Ph.D. degree.

## History of Science

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of the History of Science*

Everett I. Mendelsohn, Professor of the History of Science (*Chair*)

Bridie Andrews, Assistant Professor of the History of Science (*Head Tutor*)

David S. Barnes, Assistant Professor of the History of Science (*Assistant Head Tutor*)

Mario Biagioli, Professor of the History of Science

Robert M. Brain, Assistant Professor of the History of Science (*Assistant Head Tutor*) (*on leave 1999-00*)

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

Arnold Ira Davidson, Visiting Professor of the History of Science (*University of Chicago*) (*fall term only*)

Peter L. Galison, Mallinckrodt Professor of the History of Science and of Physics

Owen Gingerich, Professor of Astronomy and of the History of Science (*on leave spring term*)

Anne Harrington, Professor of the History of Science (*Director of Graduate Studies*) (*on leave spring term*)

Stephanie Kenen, Lecturer on the History of Science

John E. Murdoch, Professor of the History of Science

Elizabeth S. Paris, Lecturer on the History of Science

Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science and of Women's Studies

Allan Young, Visiting Professor of the History of Science (*McGill University*) (*spring term only*)

#### *Other Faculty Offering Instruction in the Department of the History of Science*

I. Bernard Cohen, Victor S. Thomas Professor of the History of Science, Emeritus

Donald Fleming, Jonathan Trumbull Professor of American History (*on leave 1999-00*)

Stephen J. Gould, Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Geology

Erwin N. Hiebert, Professor of the History of Science, Emeritus

Gerald Holton, Mallinckrodt Professor of Physics and Professor of the History of Science,



Emeritus

Barbara Gutmann Rosenkrantz, Professor of the History of Science, Emerita

A. I. Sabra, Research Professor of the History of Arabic Science

Stanley J. Tambiah, Esther and Sidney Rabb Professor of Anthropology (*on leave 1999-00*)

The Department of the History of Science oversees the undergraduate concentration in History and Science and provides the degree of A.M. and Ph.D. 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.

STP-302, Science, Power and Politics is also available to graduate students with History of Science. Please consult the JFK School catalogue for a full course description.

*Primarily for Undergraduates*

**\*History of Science 91r. Supervised Reading and Research**

Catalog Number: 1238

*Bridie Andrews 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 97a. Tutorial — Sophomore Year**

Catalog Number: 4719

*Stephanie Kenen and members of the Department*

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

Sophomore tutorial introduces students to basic problems and methods in the history of science. Students are expected to develop skills in analyzing original sources and in oral and written presentation. Organized into small sections with occasional lectures to the entire class. The first term examines the period from ancient Greece to the Scientific Revolution. Specific topics vary from year to year. Several short papers assigned.

*Note:* Required for undergraduate concentration in History and Science.

**\*History of Science 97b. Tutorial — Sophomore Year**

Catalog Number: 5235

*Stephanie Kenen and members of the Department*

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

The second term of sophomore tutorial examines the period from the Scientific Revolution to the beginning of the 20th century. Specific topics vary from year to year. Course culminates in a closely supervised research paper.

*Note:* Required for undergraduate concentration in History and Science.

**\*History of Science 98r. Tutorial — Junior Year**

Catalog Number: 1120



*Stephanie Kenen (fall term), David S. Barnes (spring term) and members of the Department*  
*Half course (fall term; repeated spring term). Hours to be arranged.*

One half year of the junior tutorial is a seminar organized around a special topic. The second half year is a skills-oriented tutorial which may be taken individually or in small groups. In it, students are encouraged to develop research skills and to prepare a senior thesis proposal in a field of their own choice. A substantial amount of writing (and rewriting) is required in both terms.

*Note:* Ordinarily taken by juniors in both terms.

### **\*History of Science 99. Tutorial — Senior Year**

Catalog Number: 6619

*Bridie Andrews and members of the Department*  
*Full course. Hours to be arranged.*

*Note:* Ordinarily taken by seniors as a full course. Either half year may be taken as a half course, 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 103. Chinese Medical History: Conference Course**

Catalog Number: 1056 Enrollment: Limited to 20

*Bridie Andrews*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

This course will challenge the concept of a static and traditional “Chinese medicine” by reading translations of texts from different periods and different medical genres (e.g. classical theory, women’s medicine, case study literature, material medica), in the light of recent historical scholarship. The course will also review the history of Chinese medicine in the 20th century, and in particular, its adoption in the West. (DF: M2)

### **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*

Examination of selected key aspects and issues in the development of ancient science together with an investigation of the treatment of these issues from various historiographic points of view. Emphasis upon the kinds of problems historians of ancient, especially Greek, thought have deemed most relevant for treatment and the types of approaches made to these problems. (DF:E1)

*Note:* Expected to be omitted in 2000–01.

### **[History of Science 107. History of Medieval Science]**

Catalog Number: 5071

*John E. Murdoch*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

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 2000–01.

### **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 12. EXAM GROUP: 5*

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)

### **History of Science 113. Imaging Techniques in Early Modern Science: Conference Course**

Catalog Number: 2253 Enrollment: Limited to 15.

*Mario Biagioli*

*Half course (fall term). Tu., 4–6. EXAM GROUP: 18*

In recent years, historians and sociologists have examined the role of visual representations and imaging techniques in modern science. Course looks at the emergence of these practices during the Scientific Revolution. By looking at the development of instruments such as the telescope and the microscope and at the printed representation of visual evidence in astronomy, anatomy, and natural history, we analyze the scientific and cultural dimensions of the debates about the epistemological status of visual evidence and of its mechanical reproductions. (DF:E3)

*Note:* Expected to be omitted in 2000–01.

### **[History of Science 120. History and Philosophy of 20th-Century Physics]**

Catalog Number: 5116

*Peter L. Galison*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

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 2000–01.

### **[History of Science 121. History and Philosophy of Experimentation]**

Catalog Number: 5851

*Peter L. Galison*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Origin of experimentation in late Renaissance and Early Modern alchemical inquiry up through the transformation of modern physics and accompanying computer simulations and large-scale research. Combines historical, sociological, and philosophical analyses in recent studies of Newton’s prisms, Millikan’s oil drops, pasteurization, solar neutrinos, laser, and weak neutral



currents. Topics include: realism, replicability, theory/experiment relation, and problems of philosophical naturalism. What constitutes a laboratory demonstration? What are standards of evidence and how have they changed? (DF: M3)

*Note:* Expected to be given in 2000–01.

**\*History of Science 122. Physics and War**

Catalog Number: 1061

*Peter L. Galison*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

Physics has transformed warfare in the 20th century and warfare, in turn, has radically altered physics. We will examine the shifting role of physics in World War I, World War II, the Korean and Vietnam Conflicts, the Cold War and beyond. Topics will include: Nuclear Weapons, Radar and Electronics, Large-Scale Physics, Simulations, National Laboratories, Star Wars, Nuclear Waste, and Stockpile Stewardship. (DF: M3)

**History of Science 130. Modern Biology**

Catalog Number: 0179

*Everett I. Mendelsohn*

*Half course (fall term). W., 2–4. EXAM GROUP: 3*

Covering the period 1750 to the present; movement from natural history to experimental biology; relations between the field and the laboratory; role of observations, representations, experimental practices, instruments and theories; relationship between biology and the physical-chemical sciences, between organisms, machines and molecules; scientific practices and social implications of the new biology. (DF:M2)

*Note:* Expected to be omitted in 2000–01.

**[\*History of Science 138. Conservation, Ecology, and Environment: Conference Course]**

Catalog Number: 2390 Enrollment: Limited to 25

*Everett I. Mendelsohn*

*Half course (fall term). W., 2–4. EXAM GROUP: 7*

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 2000–01.

**[History of Science 142. Ethics and Values in Modern Medicine and Science]**

Catalog Number: 6403

*Allan M. Brandt*

*Half course (fall term). M., W., at 11. EXAM GROUP: 4*

A historical survey of a series of ethical and value conflicts in medicine and science during the last century. Among the topics considered are issues in the history of the doctor-patient relationship; the growth and impact of medical technologies; genetic engineering; regulation of scientific research; the ethics of health policy. The social, political, and cultural contexts of medical and scientific developments are assessed in historical perspective. (DF:M2)

*Note:* Expected to be given in 2000–01.



### **History of Science 143. History of Germs**

Catalog Number: 4541

*David S. Barnes*

*Half course (spring term). M., W., (F.) at 11. EXAM GROUP: 4*

The scientific and cultural history of pathogenic microbes, from Medieval and Renaissance notions of contagion through the Bacteriological Revolution to the present day. Emphasis on responses to epidemic and endemic diseases, the growing prestige of biomedical science since the mid-19th century, and the role of social conflict in shaping fears of contagion. (DF:M1,M2)

*Note:* Expected to be omitted in 2000–01.

### **[History of Science 144. Medicine, Degeneration, and Eugenics]**

Catalog Number: 3148

*Stephanie Kenen*

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

In the later 19th and early 20th centuries, eugenic thinking paralleled fears of degeneration in the widespread preoccupation with the decline of civilization. This course will look at the role of scientific and especially medical “experts” in promoting both the problem of and the remedy for the decline of civilization. Emphasis will be on changing ideas of “otherness” as symbol and cause of degeneration, and on proposed programs for regeneration (sports, war, selective breeding). Primary focus on the United States and Europe. (DF: M1)

*Note:* Expected to be given in 2000–01.

### **\*History of Science 147. Science, Sex and Gender: Conference Course**

Catalog Number: 4221 Enrollment: Limited to 18

*Stephanie Kenen*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

This course will examine scientific ideas about physical and psychological sex differences; shifting positions about gender sameness and difference; “healthy” and diseased sexuality; and the role of social experts in all of the above. Topics will include: evolutionary explanations of anatomical and psychological sex differences; sex differences in intelligence; female reproduction as biological destiny; the male and female hormonal body; the sciences of sexology. Emphasis on 19th and 20th century U.S. and Western Europe. (DF:E3,M1,M2)

### **\*History of Science 151. Cultural History of Medicine**

Catalog Number: 3189 Enrollment: Limited to 18

*Stephanie Kenen*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

This course will examine recent approaches to the history of medicine and the body. Topics will include: the use of visual representations in medicine (Illustrations, x-rays, MRIs); the literary genre of the case study (“doctors’ stories”); the so-called “social construction” of illness (especially psychiatric illnesses and diseases of women); the intersection between medical expertise and sexual culture (sexology and social control); medicine and human experimentation (from Tuskegee to clinical trials); commodification of the body (organ transplants, cosmetic surgery). (DF: M1,M2)



**History of Science 155v. Foucault and the History of Sexuality**

Catalog Number: 8026

*Arnold Ira Davidson (University of Chicago)*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course will center around a close reading of the first volume of Michel Foucault's *The History of Sexuality*, with some attention to his writings on the history of ancient conceptualizations of sex. How should a history of sexuality take into account scientific theories, social relations of power, and different experiences of the self? We will discuss the contrasting descriptions and conceptions of sexual behavior before and after the emergence of a science of sexuality. Other writers influences by and critical of Foucault will also be discussed. (DF:M1)

**\*History of Science 161 (formerly History of Science 161v). The Scientific Revolution**

Catalog Number: 4946

*Mario Biagioli*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines the transformation of scientific culture in the 16th and 17th centuries in relationship to society, politics, and religion. Topics include the development of the disciplines of astronomy, anatomy, and natural history; the emergence of new scientific communities and new views of nature; the development of scientific practices such as observation and experimentation. Figures such as Copernicus, Vesalius, Bacon, Harvey, Descartes, Galileo, and Newton are treated in some detail. (DF:E3)

**History of Science 172v. Trauma, Memory, and Psychiatry**

Catalog Number: 2113

*Allan Young (McGill University)*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

The origin and genesis of traumatic memory and its characteristic afflictions (from traumatic hysteria to posttraumatic stress disorder) are tracked from the 19th to the 20th century, through changing styles of psychiatric reasoning (clinical, epidemiological), evolving diagnostic and therapeutic technologies, and forensic codes (relating to compensation and culpability). Topics include the history of pathogenic remembering and forgetting; military psychiatry and the war neuroses from World War I to Vietnam; the return of the repressed, from "Totem and Taboo" to the recovered memory controversy; "trauma" as an element of an emergent transcultural language of suffering. (DF: M1,M2)

**[History of Science 173. The Experimental Psychology Laboratory and its Material Cultures: Conference Course]**

Catalog Number: 9329 Enrollment: Limited to 15.

*Robert M. Brain*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Examines the emergence of the experimental psychology laboratory in Europe and the United States, with special reference to the Harvard Psychology Laboratory and the work of its most important founders Hugo Muensterberg and William James. Consideration of the institutional and intellectual conditions of the new psychology will be enhanced by hands-on consideration of its material culture, especially the extensive collection of psychological instruments in the Harvard Collection of Historical Scientific Instruments. Questions include the problem of the



social relations of the laboratory, the problem of the experimental subject, introspective versus “clinical experimental” method, the “markets” for the new psychology, and intellectual and political resistance to the laboratory. (DF: M2)

*Note:* Expected to be given in 2000–01.

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

Catalog Number: 6245

*Anne Harrington*

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

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:* Expected to be omitted in 2000–01.

**[History of Science 176. Evolution and the Mind: Conference Course]**

Catalog Number: 6736 Enrollment: Limited to 20. Preference given to juniors and seniors.

*Anne Harrington*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Explores tensions and themes in the historical attempt to reconcile the problem of mind and consciousness with evolutionary models of life since Darwin. Examples include the human mind as the Achilles heel of the naturalistic (post-Darwinian) world view, the case for the “emergence” of mind out of matter, the evolutionary argument for mind as epiphenomenon, cosmic Mind as the driving force behind evolution, the problem of the “savage mind,” madness as evolutionary regression. Particular attention to the social and ethical implications of all these debates. (DF:M2)

*Note:* Expected to be given in 2000–01.

**[History of Science 177. Stories Under the Skin: The Mind-Body Connection in Modern Medicine]**

Catalog Number: 4338 Enrollment: Preference given to junior and senior concentrators in History and Science, and Psychology.

*Anne Harrington*

*Half course (spring term). M., W., at 11. EXAM GROUP: 4*

An historical probe into the logics and stakes of modern (19th-20th century) thinking and practices concerned with “mind–body” interactions. Topics include: hypnosis; hysteria; the rise of psychosomatic medicine; medical investigations of non-Western phenomena such as “chi” and meditative practices; concerns with human connection and disconnection as sources of healing and illness; the recent rise of psychoneuroimmunology. Analytic emphasis is on integrating questions about the nature of embodied experience over time with questions about the logic of our institutionalized efforts to “domesticate” that experience within the changing explanatory frames of Western medical science. (DF:M2)

*Note:* Expected to be given in 2000–01.



### **History of Science 180. Science, Medicine and Imperialism**

Catalog Number: 3578

*Bridie Andrews*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

It is a truism that science and medicine were crucial to the development of colonialism and, in particular, to the formal imperialism of the 19th century. Scientific and technological innovations facilitated the expansion of the small maritime trading nations of Europe into every continent, and created a world-wide flow of goods, capital and human labor on an unprecedented scale. This course will examine the history of science in its imperial contexts through a thematic approach: individual topics will include the book and the printing press; exploration and the academy; cartography; tropical medicine; the diseases of empire; economic botany; trains and steamships, information flow and telegraphy; imperial womanhood; and anthropology and race. (DF: M1,M2)

### **[History of Science 181. Science, Technology, and Modernity]**

Catalog Number: 6978

*Robert M. Brain*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Examination of the role of science and technology in the experience of modernity from 1800 to 1918. Themes include the myths of Faust and Frankenstein and the ideals of personal economic development, steam engines and railways, technological utopias and dystopias, telegraphy and the growth of empire, standardization and commodity culture, electric power systems, urban planning, the mechanization of the body, technology and the arts, and technological warfare. (DF:M1)

*Note:* Expected to be given in 2000–01.

### **[\*History of Science 183. Social and Political Implications of Technology: Conference Course ]**

Catalog Number: 8588 Enrollment: Limited to 15

*Peter Buck*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

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)

*Note:* Expected to be given in 2000–01.

### **\*History of Science 184. Technology in America: Conference Course**

Catalog Number: 1617 Enrollment: Limited to 15

*Peter Buck*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

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. (DF:M1)

*Note:* Expected to be omitted in 2001–02.

### ***Cross-listed Courses***



[**Historical Study A-18. Science and Society in the 20th Century** ]

[\*\*Historical Study A-34. Medicine and Society in America\*\*](#)

[\*\*Historical Study B-46. The Darwinian Revolution\*\*](#)

[\*\*Medieval Studies 101 \(formerly History 2277\). The Auxiliary Disciplines of Medieval History: Proseminar\*\*](#)

[\*\*Science A-17. The Astronomical Perspective\*\*](#)

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

[\***Sociology 165. Science and Culture: Conference Course**]

[**Women's Studies 110a. Bodies and Boundaries**]

[**Women's Studies 152 (formerly Women's Studies 126). Women and Science: Conference Course**]

*Primarily for Graduates*

[\*\*\\*History of Science 200. Methods of Research in the History of Science: Seminar\*\*](#)

Catalog Number: 5277

*Everett I. Mendelsohn and Peter L. Galison*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

[\*\*\\*History of Science 202. Utopia, Science, and Gender\*\*](#)

Catalog Number: 3870 Enrollment: Please contact instructor for permission to enroll before the first class meeting.

*Katharine Park*

*Half course (spring term). Tu., 6:15–9:15 p.m. EXAM GROUP: 18*

The sixteenth and seventeenth centuries saw the simultaneous emergence of a new literary genre, the utopia, devoted to the detailed imagining of a different and better community or society, and a new set of goals and methods for natural inquiry identified with the Scientific Revolution.

This seminar will explore the intersection between these two developments, viewing them through the lens of the gender. Authors to be read include Christine de Pizan, Walter Raleigh, Catalina de Erauso, Tommaso Campanella, Francis Bacon, Margaret Cavendish, Gabriel de Foigny, Bernard de Fontenelle, Mademoiselle de Montpensier, and Madame de Motteville. (DF: M3)

[\***History of Science 204. The Visible Woman: Seminar**]

Catalog Number: 5206

*Katharine Park*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

The female body as a visual object in European medicine and culture of the high Middle Ages and Renaissance. Focus on the history of anatomical images, texts, and practices; on contemporary constructions of seeing as a gendered activity; and on recent theories of visuality and theatricality. (DF:E2)

*Note: Expected to be given in 2000–01.*

[\*\*\\*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 1999-2000: Aristotle's views of physical processes are found in Book 1 of *On Generation and Corruption* and Book IV of the *Meteorology* together with some consideration of their influence on late Greek philosophy and science. Current interpretations of these views will also be considered. (DF:E1)

**\*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 1999-2000: The relations of the church, the university, and science and philosophy in the 13th and 14th century Latin Middle Ages and of recent assessments of the condemnation and censure of philosophy and science in this period and of the intellectual freedom at the medieval university. (DF:E2)

*Note:* Reading knowledge of Latin not required.

**[History of Science 212. Science, Magic, and “Traditional” Thought: Seminar]**

Catalog Number: 6960

*Mario Biagioli and Stanley J. Tambiah*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Examines the differences and similarities between the practices of Western science and those of the European “occult tradition” and non-Western “traditional thought.” Among others, the works of Levi-Strauss, Goody, Horton, Sahlins, Latour, Evans-Pritchard, Foucault, and Yates are discussed. (DF:E3)

*Note:* Expected to be given in 2000–01.

**[History of Science 215. The Evidence of Experience: Seminar]**

Catalog Number: 4568

*Katharine Park*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

The meanings of experience in European science, law, and religion between 1250 and 1600. This reading-focused seminar will explore the gendering of experience and the way it was used to ground knowledge and constitute authority in contexts ranging from medical and natural philosophical inquiry to canonization procedures and artisanal practice. (DF: E2)

*Note:* Expected to be given in 2000–01.

**[\*History of Science 230r. The Life Sciences: Seminar]**

Catalog Number: 0585

*Everett I. Mendelsohn*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Concepts, methods, practices, and social relations of the life sciences in the modern period. Particular attention paid to the relationship of biology to the chemical and physical sciences, complexity, organization, and evolution; the rise of genetics and challenges of eugenics and ecological biology. Focus for the year: the 20th century. (DF:M2)

*Note:* Expected to be given in 2000–01. Open to qualified undergraduates.



**\*History of Science 244. Research in the History of Medical Ethics: Seminar**

Catalog Number: 6301

*Allan M. Brandt*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

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)

*Note:* Expected to be omitted in 2000–01.

**History of Science 248. Approaches to the Historical Study of Bodies: Seminar**

Catalog Number: 7813

*David S. Barnes*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Explores a range of methodological perspectives on individual bodies and collective bodies (“the social body”, “the body politic”) in history. Examines biomedical, anthropological, phenomenological, feminist, Marxist, psychoanalytic, and iconographic approaches, among others. Emphasis on historical context and on the practical application of interdisciplinary perspectives in historical research. (DF: M1)

**[\*History of Science 251. Women, Gender, Feminism and the Sciences: Conference Course]**

Catalog Number: 4189

*Everett I. Mendelsohn*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Course has four units: (i) women in science — invisibility and exclusion; (ii) gendered knowledge and practice — discourse, language and labs; (iii) feminist critiques of the sciences — a separate epistemology, a feminine way of knowing? (iv) changing historiographic traditions, Rossiter, Keller, Schiebinger, Haraway, et al. Includes visits by practitioners and historians. (DF:M1)

*Note:* Expected to be given in 2000–01. Open to qualified undergraduates.

**History of Science 261. Fraud, Intellectual Property, Authorship and Responsibility in Science**

Catalog Number: 3446

*Mario Biagioli*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

Examines the debates on authorship, responsibility, and credit in science in the wake of recent cases of fraud and misconduct. By bringing together perspectives from law, sociology of science, and literary theory, the seminar analyzes the similarities and differences between intellectual property and authorship in science and in other disciplines. (DF:E3)

**History of Science 272v. The Sciences of Fear: Themes in the Perspective of Anthropology and History**

Catalog Number: 4005

*Allan Young (McGill University)*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*



The history of fear is traced through the discourses of philosophy, evolutionary biology, psychiatry, neuroscience, and anthropology. The focus is on the moral and clinical transformation of fear during the 19th and 20th centuries; the efflorescence of clinically related conditions, including shock, anxiety, stress, and psychogenic trauma; and the changing meaning of fear within the syntax of the emotions. (DF: M1,M2)

**[\*History of Science 274 (formerly History of Science 174). Imag(in)ing the Brain: Seminar]**

Catalog Number: 6893

*Anne Harrington and Robert M. Brain*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Explores the relationship between brain images (from phrenological busts to fMRI) and cultural imagination. How does what we “see” in the brain appear revelatory of our humanness, while speaking to religious, social, political concerns? Common readings ground projects that may involve instruments, ethnographic observations of “laboratory life”, or library research. (DF:M2)

*Note:* Expected to be given in 2000–01.

**History of Science 275. “The Minded Body”: Theoretical and Empirical Explorations**

Catalog Number: 8536

*Anne Harrington*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Attempts, via a case study approach, to explore “embodiment” — human bodily experience — as part of the proper world of historical and cultural intellectual analysis. Can historical work be done “under the skin”? Theoretical readings will be drawn here from “body history”, anthropology, phenomenological psychology and medicine. A significant independent research project will be expected. (DF: M2)

**[\*History of Science 278. In Search of Mind: Seminar]**

Catalog Number: 0304

*Anne Harrington*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

A series of “expeditions” through the four “territories” of the mind: language, emotion, meaning-making, and memory. Reading broadly across disciplines and over a century of shifting focuses, we will aim in this seminar to construct new, less linear, ways of imagining the history of the mind sciences in our time. (DF:M2).

*Note:* Expected to be given in 2000–01.

**[\*History of Science 280. Science and Spectacle]**

Catalog Number: 0796

*Robert M. Brain*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Examination of the role of spectacle, ocularity, media technologies, and the “exhibitionary complex” in the making of a scientific culture from the 18th century to the present. Special emphasis on the role of visualization technologies in the modern laboratory and their transfer to extra-mural contexts. (DF:M1)

*Note:* Expected to be given in 2000–01.



**\*History of Science 290r. Selected Topics in History and Philosophy of Biology**

Catalog Number: 8108

*Everett I. Mendelsohn and guest lecturers*

*Half course (spring term). W., 2–4. EXAM GROUP: 16, 17*

(DF:M2)

*Prerequisite:* Ordinarily one half course at the advanced level in history or philosophy of biology.

**History of Science 291v. Historical Epistemology**

Catalog Number: 4321

*Arnold Ira Davidson (University of Chicago)*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

A study of central epistemological categories--such as objectivity, rationality, evidence, proof, and truth--from an historical point of view. What are the conditions under which these categories are specified, develop, and undergo transformation? Attention will also be given to the epistemological consequences of the emergence of new scientific concepts and styles of reasoning. Comparison of French and Anglo-American approaches to historical epistemology. Readings from historians and philosophers. Authors may include Bachelard, Bourdieu, Canguilhem, Daston, Foucault, Ginzburg, Hacking, Putnam, and Veyne. (DF:M1)

*Prerequisite:* French reading skills.

**\*History of Science 295r. Critical History: Seminar**

Catalog Number: 8360

*Peter L. Galison and Mario Biagioli*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Advanced graduate seminar on issues tying the writing of history of science to recent theoretical and philosophical concerns. (DF:M3)

*Note:* Reading knowledge of French and/or German useful, but not required.

**History of Science 297r. Topics in the History of Medieval Latin Science**

Catalog Number: 5050 Enrollment: Hours to be arranged.

*John E. Murdoch*

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

(DF:E2)

*Prerequisite:* Reading knowledge of Latin.

**\*History of Science 298r. The Establishment of Medieval Latin Scientific and Philosophical Texts: Seminar**

Catalog Number: 4893 Enrollment: Hours to be arranged.

*John E. Murdoch*

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

The problems and methods involved in preparing critical editions of texts from manuscript materials: principles of establishing the "accepted text," manuscript tradition, and appropriate *apparatus criticus* when several manuscripts are employed, as well as the resolution of palaeographic problems. (DF:E2)

*Prerequisite:* Knowledge of Latin, but no previous experience with palaeography required.



### ***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, Allan M. Brandt 3031, Peter L. Galison 3239, Owen Gingerich 1159 (on leave spring term), Anne Harrington 1895 (on leave spring term), Gerald Holton 1883, Everett I. Mendelsohn 2700, John E. Murdoch 1877, Katharine Park 2974, and A. I. Sabra 2702*

*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

*Bridie Andrews 1409, David S. Barnes 1701, Mario Biagioli 1756, Robert M. Brain 2676 (on leave 1999-00), Allan M. Brandt 3031, Peter Buck 1894, I. Bernard Cohen 1185, Donald Fleming 1831 (on leave 1999-00), Peter L. Galison 3239, Stephen J. Gould 1707, Anne Harrington 1895 (on leave spring term), Erwin N. Hiebert 1187, Gerald Holton 1883, Stephanie Kenen 1535, Everett I. Mendelsohn 2700, John E. Murdoch 1877, Katharine Park 2974, Barbara Gutmann Rosenkrantz 3651, and A. I. Sabra 2702*

Individual work in preparation for the General Examination for the Ph.D. degree.

#### **History of Science 302. Guided Research**

Catalog Number: 5282

*Bridie Andrews 1409, David S. Barnes 1701, Mario Biagioli 1756, Robert M. Brain 2676 (on leave 1999-00), Allan M. Brandt 3031, Peter Buck 1894, I. Bernard Cohen 1185, Peter L. Galison 3239, Owen Gingerich 1159 (on leave spring term), Stephen J. Gould 1707, Anne Harrington 1895 (on leave spring term), Erwin N. Hiebert 1187, Gerald Holton 1883, Stephanie Kenen 1535, Everett I. Mendelsohn 2700, John E. Murdoch 1877, Katharine Park 2974, Barbara Gutmann Rosenkrantz 3651, and A. I. Sabra 2702*

Through regular meetings with faculty advisor, this course 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*



P. Oktor Skjaervo, Aga Khan Professor of Iranian (*Chair*)  
 William A. Graham, Jr., Professor of the History of Religion and Islamic Studies  
 Milan G. Hejmanek, Assistant Professor of Korean History  
 Cemal Kafadar, Vehbi Koc Professor of Turkish Studies  
 Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations  
 C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology  
 David J. Roxburgh, Assistant Professor of History of Art and Architecture (*on leave 1999-00*)  
 Sinasi Tekin, Senior Lecturer on Turkish  
 Wheeler M. Thackston, Jr., Professor of the Practice of Persian and other Near Eastern Languages (*on leave spring term*)  
 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  
 Michael Witzel, Wales Professor of Sanskrit  
 Nur Yalman, Professor of Social Anthropology and of Middle Eastern Studies

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, Fine Arts, History, 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 Coolidge Hall 102, 1737 Cambridge St., 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*) (*on leave spring term*)  
 Bradley S. Epps, Professor of Romance Languages and Literatures (*Acting Chair, spring term*)  
 Ana María Amar Sánchez, Associate Professor of Romance Languages and Literatures  
 Thomas N. Bisson, Henry Charles Lea Professor of Medieval History  
 Bruno G. Bosteels, Assistant Professor of Romance Languages and Literatures (*fall term only*)  
 Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature



Jorge I. Domínguez, Harvard College Professor, Clarence Dillon Professor of International Affairs, and Director of the Weatherhead Center for International Affairs

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

Jeffrey Frieden, Professor of Government (*on leave spring term*)

Mary Gaylord, Professor of Romance Languages and Literatures (*on leave 1999-00*)

Michael Jones-Correa, Associate Professor of Government (*on leave spring term*)

Rafael La Porta, Assistant Professor of Economics (*on leave 1999-00*)

Francisco Márquez, Arthur Kingsley Porter Professor of Romance Languages and Literatures

J. Lorand Matory, Professor of Anthropology and of Afro-American Studies

David H. P. Maybury-Lewis, Professor of Anthropology

José Antonio Mazzotti, Assistant Professor of Romance Languages and Literatures

Serafín Moralejo, Fernando Zobel de Ayala Professor of Spanish Art (*on leave fall term*)

Otto T. Solbrig, Bussey Professor of Biology

Doris Sommer, Professor of Romance Languages and Literatures

Aaron Tornell, Associate Professor of Economics (*fall term only*)

Kay B. Warren, Professor of Anthropology (*on leave 1999-00*)

John Womack, Jr., Robert Woods Bliss Professor of Latin American History and Economics

The Committee on Latin American and Iberian Studies, established in 1960, forms part of the David Rockefeller Center for Latin American Studies. Its purpose is 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 twenty-three members representing nine 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 Afro-American Studies, Anthropology, Biology, Environmental Studies, Government, History, History and Literature, Romance Languages and Literatures, Social Studies, and the Special Concentrations program. The Committee itself does not offer an undergraduate concentration or an advanced degree.

The David Rockefeller Center for Latin American Studies, founded in 1994, coordinates and supports 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 United States throughout the University. It works to strengthen ties between Harvard and the countries of Latin America 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 150 faculty members, librarians, curators, administrators, and visiting fellows and scholars with substantial Latin American or related interests.

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 for graduate and professional students; hosts



visiting scholars and fellows; and administers the Robert F. Kennedy Visiting Professorship of Latin American Studies.

The Center publishes a monthly calendar from September to May; the DRCLAS Newsletter each semester; an annual Guide to Courses that lists over 150 courses on Latin America and related topics at Harvard each year; and the Directory of Faculty and Professional Staff mentioned above.

The office of the Committee is in Coolidge Hall 602, 1737 Cambridge St., Cambridge, MA, 02138.

## Linguistics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Linguistics*

Jay H. Jasanoff, Diebold Professor of Indo-European Linguistics and Philology (*Chair*)

Maya Arad, Lecturer on Linguistics

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

Susumu Kuno, Professor of Linguistics (*on leave 1999-00*)

Giulio C. Lepschy, Lauro de Bosis Lecturer on Italian Civilization (*University of Reading*)  
(*spring term only*)

Lynn Nichols, Assistant Professor of Linguistics (*on leave spring term*)

Bert Vaux, Assistant Professor of Linguistics (*Head Tutor*)

Calvert Watkins, Victor S. Thomas Professor of Linguistics and the Classics

#### *Other Faculty Offering Instruction in the Department of Linguistics*

Alfonso Caramazza, Professor of Psychology

Wesley M. Jacobsen, Professor of the Practice of the Japanese Language and Director of the Japanese Language Program

P. Oktor Skjaervo, Aga Khan Professor of Iranian

See also listings under the 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 91r. Supervised Reading and Research**

Catalog Number: 1100

*Bert Vaux 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 the course count towards the concentration.

**\*Linguistics 97r. Group Tutorial — Sophomore Year**

Catalog Number: 1791

*Bert Vaux and members of the Department*

*Half course (fall term; repeated spring term). M., Tu., or W., 3–5.*

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

*Bert Vaux and members of the Department*

*Half course (fall term). M., Tu., or W., 3–5.*

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

*Bert Vaux and members of the Department*

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

Individual tutorial with a faculty member.

*Note:* Required of concentrators.

**\*Linguistics 99. Tutorial — Senior Year**

Catalog Number: 3082

*Bert Vaux 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 80. Dialects of English**

Catalog Number: 4695

*Bert Vaux*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

Survey and analysis of the varieties of English currently spoken in the world. Forms of English to be discussed include: American dialects (Boston, New York, Southern, “Valley Girl”, etc.); British dialects (BBC, Liverpool, Scottish, etc.); Indian, Australian, Singaporean, and other colonial dialects; Yiddish English; English-based pidgins and creoles; men’s vs. women’s speech. Most of the dialects will be illustrated in the classroom by native speakers.

### **Linguistics 81. Language and Gender**

Catalog Number: 4668

*Lisa Lavoie*

*Half course (fall term). M., W., at 2. EXAM GROUP: 7*

This course explores connections between language use, sex, and gender. Do sex and gender affect the ways we speak and the ways we interpret and evaluate speech? How do differences in people’s sociocultural positions, particularly their degree of power, affect how they use language, how others interpret what they say or write, and their relation to linguistic change? How does conversation structure the social worlds of men and women? How do linguistic practices support or challenge gender arrangements? We will explore a range of aspects of language use that have been claimed to interact significantly with gender. These include: apologies, compliments and complaints, gossip, asking for/giving directions, metaphors, bragging, elaborate use of adjectives, use of conversation particles (such as “like” or “you know”), conversational turn-taking, media messages, self-help literature, widespread use of question intonation, and “verbal hygiene” practices. Students will collect their own data to challenge or support published findings and put forth new generalizations.

### **[Linguistics 85. English Etymology]**

Catalog Number: 1081

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

Introduction to the historical study of English with an emphasis on words and their histories, and what information they can give us about the sociocultural history of the English-speaking people. The course will discuss the origins and development of the English language, the historical science of etymology, the study of Indo-European roots, and the position of English in the Indo-European family. Other topics addressed will be the impact on English of such languages as Old Norse, Norman French, Latin, and Greek, with an investigation of attendant sociolinguistics issues. No prior knowledge of linguistics, historical linguistics, Old English, or Indo-European will be assumed.

*Note:* Expected to be given in 2000–01.

### **Linguistics 110. Introduction to Linguistics**

Catalog Number: 1498

*Susanne Gahl*

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

An introduction to contemporary linguistic theory and methods of linguistic analysis. Emphasis



will be on acquiring the basic skills of linguistics: phonetic transcription, phonological, morphological, and syntactic analysis, the methodology of comparative and historical linguistics. Some psycholinguistic aspects of language will also be briefly examined. Discussions of theoretical issues, as well as weekly problem sets, will draw on data from a wide variety of languages.

### **Linguistics 112a. Introduction to Syntactic Theory**

Catalog Number: 7318

*Maya Arad*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Phrase-structure analysis, motivation for transformations, constraints on rule application and conditions on representations.

### **Linguistics 112b. Intermediate Syntax**

Catalog Number: 4730

*Maya Arad*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

Continuation of 112a. Fundamental principles and parameters of Government and Binding Theory.

*Prerequisite:* Linguistics 112a.

### **Linguistics 114. Introduction to Morphology**

Catalog Number: 1289

*Susanne Gahl*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

An introduction to the analysis of word structure. The focus will be on analyzing morphological phenomena in a wide range of typologically diverse languages. Topics to be addressed include the place of word formation in relation to phonological and syntactic phenomena, as well as the contribution of morphological analysis to our understanding of lexical processing.

*Prerequisite:* Linguistics 110 or consent of instructor.

### **Linguistics 115. Introduction to Phonetics and Phonology**

Catalog Number: 2791

*Lisa Lavoie*

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

Analysis of phonetic and phonological data from a wide variety of languages. Theoretical issues covered include deep structure and abstract representations, phonemes, distinctive features, rules and their ordering, language acquisition and change, and the sources of foreign accents.

### **[Linguistics 116. Semantics]**

Catalog Number: 6115

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

An introduction to semantic analysis. Topics to be covered include set theory and logic, transformational approaches to quantifier interpretation, theories of meaning, and lexical



semantics.

*Note:* Expected to be given in 2000–01.

### **Linguistics 117r. Linguistic Field Methods**

Catalog Number: 8401

*Lisa Lavoie*

*Half course (spring term). M., 3–6. EXAM GROUP: 8, 9*

Instruction in the elicitation of phonological, morphological, and syntactic information from a native speaker of an unfamiliar language. Participants work directly with the informant, both individually and as a group, with the assistance of the instructor.

### **[Linguistics 118. Introduction to Discourse Analysis]**

Catalog Number: 8709

*Susumu Kuno*

*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 2000–01. No previous knowledge of Japanese required.

### **Linguistics 120. Introduction to Historical Linguistics**

Catalog Number: 8486

*Jay H. Jasanoff*

*Half course (spring term). M., W., F., at 11. 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 theoretical hypotheses.

### **[Linguistics 122. Introduction to Indo-European]**

Catalog Number: 1336

*Jay H. 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 2000–01.

### **[Linguistics 124. The Origins of the Romance Languages]**

Catalog Number: 7113

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

A survey of the historical grammar and history of the Romance languages. Attention will be paid to the place of Latin and Romance within the Indo-European family, and to the earliest Romance documents. Special emphasis will be placed on Italian: the standard language vs. the dialects, and the earliest dialectal documents.

*Note:* Expected to be given in 2000–01. Conducted in English.



### **Linguistics 150. Introduction to Aphasia**

Catalog Number: 5681

*Susanne Gahl*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

An introduction to the study of aphasia and related language disorders. Topics include the effects of brain injuries and dementing illnesses on language abilities, organization of language functions in the brain, how these issues are investigated in both normal and clinical populations, and how research in linguistics can contribute to theories of brain function.

*Prerequisite:* Linguistics 110 or consent of instructor.

### **Linguistics 152. Introduction to Syntactic Parsing**

Catalog Number: 3166

*Susanne Gahl*

*Half course (spring term). M., W., at 2. EXAM GROUP: 7*

An introduction to recent investigations of sentence processing. Topics to be considered include the influence of lexical, syntactic, and discourse factors on sentence comprehension and production, the role of working memory in processing, the nature of syntactic deficits in patients with language disorders, and cross-linguistic differences in sentence processing.

*Prerequisite:* Linguistics 112a.

### **Linguistics 158r. From Indo-European to Old Irish**

Catalog Number: 3801

*Calvert Watkins*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

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 H. Jasanoff*

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

A combined introduction to Gothic and the comparative grammar of the older Germanic languages.

*Note:* Expected to be given in 2000–01.

### **Linguistics 172. Topics in Semitic Syntax**

Catalog Number: 5565

*Maya Arad*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

This course explores a number of phenomena characteristic of the Semitic languages (especially Hebrew and Arabic), including verbal morphology and verbal patterning, copular constructions, nominal forms and functional categories, such as tense, aspect, and negation. Emphasis will be placed on the language—particular facts and their interaction with principles of Universal Grammar, as well as comparison with similar phenomena in Indo-European languages, such as Russian, Irish and Romance.



*Note:* No prior knowledge of Hebrew or Arabic is required.

*Prerequisite:* Linguistics 112b or permission from instructor.

**[Linguistics 173. Linguistic Issues in the Teaching of Japanese]**

Catalog Number: 4208

*Wesley M. Jacobsen*

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

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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Japanese 101b or its equivalent. Familiarity with basic linguistics concepts desirable.

**[Linguistics 174. Tense and Aspect in Japanese]**

Catalog Number: 1856

*Wesley M. Jacobsen*

*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 2000–01.

*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]**

Catalog Number: 6658

*Susumu Kuno*

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

Examination of syntactic and semantic features of Japanese from the point of view of language typology and language universals.

*Note:* Expected to be given in 2000–01. No previous knowledge of Japanese required.

*Prerequisite:* Linguistics 112a or equivalent.

**Linguistics 176. History of the Japanese Language**

Catalog Number: 4861

*Wesley M. Jacobsen*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

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.

**[Linguistics 177a. First Language Acquisition]**

Catalog Number: 2890

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



Acquiring a first language is the greatest intellectual achievement of most human beings, yet it is something that only a child can do. Moreover, it is accomplished rapidly and without effort or instruction by every normal human being. This course will survey contemporary thought in the generative grammar tradition on first language acquisition, and will examine what is currently known about the development of child language. Theoretical issues discussed will include the learnability problem, the nature of the input to the child, the Innateness Hypothesis, the Continuity Hypothesis, and the role of universal grammar in first language acquisition. The empirical focus will be on the development of syntactic competence, with some attention also given to phonological, morphological, and lexical acquisition.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Linguistics 110 or permission of the instructor.

**[Linguistics 177b. Child Language and Linguistic Theory]**

Catalog Number: 8970

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

Competing hypotheses in theoretical linguistics generally describe adult linguistic performance with roughly equivalent empirical adequacy. In this circumstance, it can be useful for evaluating the relative explanatory adequacy of such hypotheses to examine the different predictions they make about the linguistic performance of children. This course will focus on the use of experimental research on child language for this purpose. After a careful examination of issues concerning experimental methodology, a variety of specific case studies will be presented in which child linguistic performance can be seen to shed light on competence theory. A central requirement of this course will be the design and completion of a psycholinguistic experiment of the sort discussed in the course.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Linguistics 177a or permission of the instructor.

*Cross-listed Courses*

**[Classics 190. Approaches to Classical and Indo-European Poetics]**

**[English 101. The History and Structure of the English Language](#)**

**[Greek 134. The Language of Homer](#)**

**[Italian 101. Aspects of Italian Linguistics]**

**[Latin 134. Archaic Latin]**

**[Psychology 1302 \(formerly Psychology 1500\). Psychology of Language](#)**

**[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](#)**

**[Slavic 126b. Structure of Modern Russian: Morphosyntax](#)**

**[Yiddish 105. Yiddish Language and Linguistic Theory]**

*Primarily for Graduates*

**[Linguistics 202. Advanced Syntax](#)**

Catalog Number: 8175



*Maya Arad*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

The third course in the syntax sequence, focusing on major issues in current syntactic theory with particular emphasis on the Minimalist framework. Phenomena to be examined include head movement, case and agreement, constraints on movement and derivations, and anaphora.

*Prerequisite:* Linguistics 112b or permission of instructor.

**[Linguistics 203. Topics in UG]**

Catalog Number: 8292

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

Focuses on a particular topic in current syntactic theory, addressing the nature of linguistic universals and language-particular parameters, and drawing on data from a number of languages. This year's topic: Case and phi-features and their role as triggers of movement operations in the GB and Minimalist Frameworks. Special emphasis will be on Japanese, Germanic, and Slavic languages.

*Note:* Expected to be given in 2000–01.

**[Linguistics 211. Topics in Historical and Theoretical Phonology]**

Catalog Number: 1518

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

An investigation of the linguistic development of phonological systems from a theoretical point of view. Topics considered include feature geometry, syllabification, and vowel harmony.

*Note:* Expected to be given in 2000–01.

**[Linguistics 213r. Topics in GB Theory]**

Catalog Number: 0849

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

A detailed examination of specific aspects of Government and Binding Theory. The precise formulation of a number of principles is investigated. Topics include Binding theory, determination of empty categories, and conditions on chains, among others.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Linguistics 112b or permission of instructor.

**[Linguistics 215. Phonological Theory](#)**

Catalog Number: 5612

*Lisa Lavoie*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Major issues in generative phonology with particular emphasis on nonlinear models: feature geometry, syllable structure, tone and stress systems, harmony, locality, and interaction of phonological and morphological processes. Attention will also be given to structure of phonemic inventories, status of phonological underspecification, and structure preservation.



**Linguistics 219r. Advanced Phonology**

Catalog Number: 2154

*Bert Vaux*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

In-depth analysis of current issues in theoretical phonology, including Optimality Theory. Emphasis will be placed on the typology of assimilation phenomena.

**Linguistics 220ar. Advanced Indo-European**

Catalog Number: 3428

*Jay H. Jasanoff*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Close study of selected problems in Indo-European comparative phonology and morphology.

**[Linguistics 221r. Workshop in Indo-European]**

Catalog Number: 1008

*Jay H. Jasanoff*

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

Intensive study of a selected early Indo-European language or language group, with emphasis on its significance for the comparative reconstruction of Proto-Indo-European.

*Note:* Expected to be given in 2000–01.

**Linguistics 224. Historical and Comparative Linguistics**

Catalog Number: 2967

*Jay H. Jasanoff*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

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.

**Linguistics 225a. Introduction to Hittite**

Catalog Number: 8206

*Calvert Watkins*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Grammar and reading of texts in cuneiform and in transliteration; essentials of the comparative grammar of the Indo-European languages of Anatolia.

*Note:* No previous knowledge of cuneiform presumed.

**Linguistics 226r. Advanced Hittite**

Catalog Number: 0858

*Calvert Watkins*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Texts of various genres.

*Note:* Provisions will be made for any student who wishes to begin Hittite this semester.

**Linguistics 241r. Practicum in Syntax and Phonology**

Catalog Number: 4260



*Bert Vaux 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 H. Jasanoff and Calvert Watkins*

*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 historical linguistics.

### **Linguistics 247. Topics in Germanic Linguistics**

Catalog Number: 3693

*Jay H. Jasanoff*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Investigation of selected topics in Germanic historical linguistics. Problems to be discussed in 1999-00 include the origin of the dental preterite, the history of the n-stem inflection, and the creation of class VII strong verbs in North and West Germanic.

### **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 2000–01.

*Prerequisite:* Linguistics 250.

### **[Linguistics 275r. Japanese Syntax: Seminar]**

Catalog Number: 8921

*Susumu Kuno*

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

Selected topics in sentence structure and meaning in Japanese.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Linguistics 174, 175 or equivalent.



**[Linguistics 291. Functional Approach to Syntax]**

Catalog Number: 5046

*Susumu Kuno*

*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 2000–01.

**[Linguistics 292r. Functional Syntax and Theories of Grammar ]**

Catalog Number: 2994

*Susumu Kuno*

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

A critical review of past research results in the framework of GB Theory, Checking Theory and the Minimalist Program, and presentation of alternative solutions in the framework of Functional Syntax.

*Note:* Expected to be given in 2000–01.

*Cross-listed Courses*

**[Celtic 225a. Introduction to Middle Welsh]**

**[Celtic 225b. Continuing Middle Welsh]**

**[Classics 240. Topics in Greek Linguistics and Poetics]**

**[\*Computer Science 287r. Natural Language Processing]**

**[Computer Science 288. Computational Models of Discourse](#)**

**[\\*Scandinavian 200a. Introduction to Old Norse](#)**

**[Semitic Philology 200r. Comparative Semitic Grammar: Seminar]**

**[Semitic Philology 230. The Early History of Northwest Semitic]**

**[Slavic 201. Introduction to East Slavic Languages](#)**

**[Slavic 202. Introduction to West Slavic Languages]**

**[Slavic 203. Introduction to South Slavic Languages]**

**[Slavic 250. Structure of Ukrainian](#)**

**[Slavic 296r. Slavic Linguistics: Seminar](#)**

*Graduate Courses of Reading and Research*

**\*Linguistics 300. Direction of Doctoral Dissertations**

Catalog Number: 6729

*Maya Arad 2286, Alfonso Caramazza 1871, Michael S. Flier 2878, Wesley M. Jacobsen 3443, Jay H. Jasanoff 1661, Susumu Kuno 1083 (on leave 1999-00), Lynn Nichols 3613 (on leave spring term), P. Oktor Skjaervo 2869, Bert Vaux 1452, and Calvert Watkins 2553*

**\*Linguistics 301. Reading or Special Topics Course**

Catalog Number: 0861

*Maya Arad 2286, Alfonso Caramazza 1871, Michael S. Flier 2878, Susanne Gahl 2856, Wesley*



*M. Jacobsen 3443, Jay H. Jasanoff 1661, Susumu Kuno 1083 (on leave 1999-00), Lynn Nichols 3613 (on leave spring term), P. Oktor Skjaervo 2869, Bert Vaux 1452, and Calvert Watkins 2553*

## Literature

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

#### *Faculty of the Committee on Degrees in Literature*

Barbara E. Johnson, Fredric Wertham Professor of Law and Psychiatry in Society (*Chair*)  
K. Anthony Appiah, Professor of Afro-American Studies and of Philosophy  
Svetlana Boym, Professor of Slavic Languages and Literatures and of Comparative Literature  
Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures  
Michel Chaouli, Assistant Professor of German and Comparative Literature  
Tom Conley, Professor of Romance Languages and Literatures  
James Engell, Professor of English and Comparative Literature  
Bradley S. Epps, Professor of Romance Languages and Literatures  
Marjorie Garber, William R. Kenan, Jr. Professor of English  
Beatrice Hanssen, Associate Professor of German  
James L. Kugel, Harry Starr Professor of Classical and Modern Jewish and Hebrew Literature and Professor of Comparative Literature, Director of the Center for Jewish Studies (*on leave spring term*)  
Sandra Naddaff, Senior Lecturer on 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  
Lillian Paula Porten, Lecturer on Literature  
Eric Rentschler, Professor of German  
Judith Ryan, Harvard College Professor and the Robert K. and Dale J. Weary Professor of German and Comparative Literature (*on leave spring term*)  
Atsuko Sakaki, Associate Professor of Japanese Literature  
Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English  
Doris Sommer, Professor of Romance Languages and Literatures  
Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature  
William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education

#### *Other Faculty Offering Instruction in the Literature Concentration*



Dorota Ewa Badowska, Lecturer on Literature  
Margaret Bruzelius, Lecturer on Literature  
Eileen Cheng-yin Chow, Instructor in Chinese Literary and Cultural Studies  
Verena A. Conley, Visiting Professor of Literature  
Rita B. Goldberg, Lecturer on Literature  
Melinda G. Gray, Lecturer on History and Literature  
Camille Lizarribar, Lecturer on History and Literature  
Christina Pugh, Lecturer on Literature  
Shelley Salamensky, 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 semester 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 semester 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 semester 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 semester 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 semester 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 semester of Literature 99b is required of all concentrators in their senior year.

***For Undergraduates and Graduates***

**Literature 109. On Translation**

Catalog Number: 0594

*Sandra Naddaff*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Examination of theories of translation from various periods (Dryden, Schopenhauer, Benjamin, Borges, Asad, among others). Also looks closely at specific translated texts (e.g., various translations of Homer's *Odyssey*, Burton's *Thousand Nights and a Night*), and considers such topics as the notion of "unequal languages," the problem of cultural translation, untranslatability, and translation as imitation and re-creation.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Reading knowledge of one foreign language.

**[\*Literature 118. Benjamin and the Frankfurt School]**

Catalog Number: 7966

*Beatrice Hanssen*

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

Examines the aesthetic theory and cultural criticism of the school's main representatives, with special emphasis on Walter Benjamin. Readings include Benjamin's *Origin of German Tragic Drama*, *The Dialectic of Enlightenment*, Adorno's *Minima Moralia*, Habermas's *Philosophical Discourse of Modernity*.

*Note:* Expected to be given in 2000–01. Given in alternate years.

**[Literature 119. The Holocaust and Problems of Representation]**

Catalog Number: 1732 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? In what circumstances? To whom? This course will grapple with 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 and the United States, and Israel.

*Note:* Expected to be given in 2001–02.

**[\*Literature 122. Literature and Music]**

Catalog Number: 2360 Enrollment: Limited to 20; preference given to Literature Concentrators.

*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 the musicality of poetry. Works and authors will include *Romeo and Juliet*, *West Side Story*, *Peter and the Wolf*, Verlaine, Mann, and Proust.

*Note:* Expected to be given in 2000–01. Given in alternate years.

**[\*Literature 124. Transformations of Space in Contemporary Culture]**

Catalog Number: 8228 Enrollment: Limited to 20; preference given to Literature Concentrators.

*Verena A. Conley*

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

Focuses on renewed awareness of space and environment in contemporary culture, theory, and film. Examines shifts in the thinking of space in an era of teletechnologies and globalism by means of such notions as anthropological space and non-places, material and immaterial spaces, local and global, invention of space and spatial practices, the global city, and others. Includes texts and films by Chantal Akerman, Marc Augé, Etienne Balibar, Jean Baudrillard, Michel de Certeau, Assia Djébar, Jean-Luc Godard, David Harvey, Fredric Jameson, Gilles Deleuze and Félix Guattari, Alain Liepitz, Saskia Sassen, Edward Soja, Paul Virilio, Wim Wenders, and others.

*Note:* Expected to be given in 2000–01.

**\*Literature 125. A Thousand Feminisms**

Catalog Number: 5958 Enrollment: Limited to 20; preference given to Literature Concentrators.

*Verena A. Conley*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Focuses on the relations between feminisms and technologies of discourse. Examines by means of text, film and art, how feminisms and constructions of gender evolve under the impact of information networks and interactive media. How are representations of the body altered? How do teletechnologies affect feminist theories of place and space? How does the shift in digital technology from technical system to personal platform reorient feminism? (Readings include Cixous, Turkle, Haraway, Stone, Plant, Kittler, Hayles, Wittig, Zizek and others.)

*Note:* Expected to be omitted in 2000–01.

**\*Literature 128. Performing Texts**

Catalog Number: 3404 Enrollment: Limited to 20

*Julie A. Buckler*



*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

What is the relationship between dramatic text and work? How do plays create audiences? What does the ubiquitous dramatic site of "home" (domestic interiors, family estates) contribute to the performance of "authentic" identities? This course enlists performance theory in the illumination of the dramatic texts and theatrical contexts of Pushkin, Gogol, Scribe, Ostrovsky, Chekhov, Ibsen, Wilde, Bulgakov, Shaw, Kharms, Beckett, Sartre, O'Neill, Williams, Miller, Vampilov, and Petrushevskaya. Particular attention to restagings (19th-Century dramas revised by Meyerhold and Stanislavsky), cross-cultural appropriations (Western stagings of Chekhov), theories of drama and culture (Nietzsche, Wagner, Shaw, Brecht, Ivanov, Evreinov).

*Note:* Expected to be omitted in 2000–01.

**\*Literature 129. Reading the 18th Century Through 20th-Century Eyes**

Catalog Number: 5600 Enrollment: Limited to 15.

*Christie McDonald*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Why do we read texts from the French Enlightenment today and how? Analysis of works from the 18th century as well as novels, plays, media events, and films of the 20th century that revisit key questions: what is the present in its relationship to the past? what constitutes change? what is the relationship of the individual to the family, the state, and society? Topics of discussion will include textual rewritings of novels and confessions; re-publication of works by women and the question of the canon; the controversy around pornography and reproduction; imagining what might have been in rewriting history through literature, the media and opera. Readings include works by 1) Beaumarchais, Charrière, Graffigny, Diderot, Franklin, Kant, Rousseau, Sade; 2) Beauvoir, Blanchot, Boyd, Foucault, Klossowski, Kundera, Shine, Hoffman, Corigliano, Weiss.

*Note:* Expected to be omitted in 2000–01.

**\*Literature 130. Reconfiguring the City**

Catalog Number: 1034 Enrollment: Limited to 20; preference given to Literature concentrators

*Verena A. Conley*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Examines the city as concept, representation and simulation in contemporary culture through literature, film and art. Focuses on the urban metaphor rather than a particular city. How does the "city" become a manifestation of a general urban condition? How is it reconfigured through digital networks? How do notions of "third culture" question limits between cultural fields, undo traditional notions of inside/outside and reconfigure the city as an everchanging artefact?

Readings include Augé, Baudrillard, Godard, Perec, Latour, Sassen and others.

*Note:* Expected to be omitted in 2000–01.

**[Literature 132. Introduction to Literary Theory]**

Catalog Number: 3527

*Barbara E. Johnson*

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

Readings in some of the texts that have transformed literary studies over the past twenty years. Will pair theorists with the texts they are reading (Derrida and Plato, Kant, Rousseau, Marx; Marx and Derrida on Hegel; Lacan and Morrison on Poe; Barthes and Balzac; Bhabha and Fanon; Miller and Barthes; Althusser with Marx and Lacan; Butler with Larsen, Cather, Austin,



Althusser, etc.).

*Note:* Expected to be given in 2000–01.

**\*Literature 134. Postmodern Fictions**

Catalog Number: 8841 Enrollment: Limited to 20

*Margaret Bruzelius*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

We will think about pastiche, displacement, parody and the materiality of language in work by Richard Powers, Russell Hoban, Frank Bidart, Ishmael Reed, May Swenson, Manuel Puig, Tom Phillips, Ben Katchor, Rousset, Schwitters, Jameson, Baudrillard, Derrida and others.

*Note:* Expected to be omitted in 2000–01.

**[\*Literature 135. Pre-20th Century Theories of Language]**

Catalog Number: 9328 Enrollment: Limited to 20

*Margaret Bruzelius*

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

Examines largely pre-20th century theories of the nature and origin of language developed by Plato, Rousseau, Locke, Leibniz, Herder, Condillac and von Humboldt, among others. There will be occasional reference to 20th century literature which addresses or revives the issues raised or resolved by earlier writers.

*Note:* Expected to be given in 2000–01. Given in alternate years.

**[Literature 140. Colonial and Post-Colonial Spaces: France and North Africa]**

Catalog Number: 9366

*Verena A. Conley*

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

This course will focus on the transformation of colonial to postcolonial spaces in “French” North Africa, that includes Morocco, Tunisia, and Algeria. Special attention will be given to shifting notions of culture, problems of language, tradition, violence, and revolution. Includes texts and films by Frantz Fanon, Assia Djébar, Kateb Yacine, Rachid Boudjedra, Albert Camus, Jean-Paul Sartre, Jean François Lyotard and others. By means of fiction, film, journalistic essays and street culture (Azouz Begag, Mehdi Charef, Malik Chibane, Mathieu Kassovitz, Alliance Ethnik, MC Solaar etc.), we will also examine the emergence of new cultural spaces in connection with urban immigration.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

**Chinese Literature 150. Diaspora and Transnationalism**

**Comparative Literature 102x. How to Think Money**

**[Comparative Literature 109. Aesthetic Disgust, Disgusting Aesthetics]**

**[Comparative Literature 162. (Neo) Existentialism]**

**[Comparative Literature 167. Contemporary Fiction]**

**[Comparative Literature 168. Literature and Film]**

**[Comparative Literature 182 (formerly Comparative Literature 282). Comparative Cultures of Money]**



[\\*Comparative Literature 206 \(formerly Comparative Literature 106\). Allegory: Seminar](#)

[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]

[\\*Comparative Literature 260. Literature and Exile: Seminar](#)

[\*Comparative Literature 261. Memory and Modernity: Seminar]

[\*Comparative Literature 283. Language Wars and Polyglot Literature: Seminar]

[\\*Comparative Literature 284. Introduction to Kant's \*Critique of Judgment\*: Seminar](#)

[\\*Comparative Literature 287r. Selected Topics in Poetics and Rhetoric: Seminar](#)

[\\*Comparative Literature 288. Ideology of the Aesthetic-Aesthetic Ideology: Seminar](#)

[English 190. Major Critical Approaches]

[English 193d. Deconstruction and Psychoanalysis](#)

[English 199. Persons and Things]

[French 130. Literature and Cartography: History and Theory](#)

[French 132b. 20th Century French Fiction II: The Experimental Mode]

[German 138 \(formerly Comparative Literature 160x\). Nietzsche, Philosophy, and Literature](#)

[German 230. Political Romanticism](#)

[German 270. Aesthetic Theory (Kant to Adorno): Seminar]

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

[Slavic 179. Literature as Institutions: Conference Course]

[Spanish 189. Colonial, Postcolonial]

[Spanish 265. A Bilingual Esthetic](#)

[Women's Studies 110b \(formerly Women's Studies 10b\). Current Problems in Feminist Theory](#)

[Women's Studies 134. Women's Writing and Film in Latin America and the Caribbean]

## Mathematics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Mathematics*

Benedict H. Gross, George Vasmer Leverett Professor of Mathematics (*Chair*)

Daniel Allcock, Benjamin Peirce Lecturer in Mathematics; Assistant Professor of Mathematics

Ilia A. Binder, Benjamin Peirce Lecturer of Mathematics; Assistant Professor of Mathematics

John David Boller, Preceptor in Mathematics

Tom C. Braden, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics  
(*on leave 1999-00*)

Lisa J. Carbone, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics

Brian Conrad, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics



Igor Dolgachev, Visiting Professor of Mathematics (*University of Michigan*) (*fall term only*)  
 Nathan Dunfield, Benjamin Peirce Lecturer in Mathematics, Assistant Professor of Mathematics  
 Noam D. Elkies, Professor of Mathematics  
 Andrew James Engelward, Preceptor in Mathematics  
 Kim Froyshov, Benjamin Peirce Lecturer of Mathematics; Assistant Professor of Mathematics  
 Daniel L. Goroff, Professor of the Practice of Mathematics  
 Robin Gottlieb, Senior Preceptor in Mathematics  
 Tom Graber, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics  
 Joseph D. Harris, Professor of Mathematics (*Director of Graduate Study*)  
 Arthur M. Jaffe, Landon T. Clay Professor of Mathematics and Theoretical Science  
 Kalle Karu, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics  
 David Kazhdan, Perkins Professor of Mathematics  
 Peter B. Kronheimer, Professor of Mathematics  
 Tamara R. Lefcourt, Preceptor in Mathematics  
 Yang Liu, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics  
 Barry C. Mazur, Gerhard Gade University Professor  
 Curtis T. McMullen, Professor of Mathematics  
 Grisha Mikhalkin, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics  
 Gerald E. Sacks, Professor of Mathematical Logic  
 Wilfried Schmid, Dwight Parker Robinson Professor of Mathematics  
 Richard M. Schoen, Visiting Professor of Mathematics (*Stanford University*) (*fall term only*)  
 Yum Tong Siu, William Elwood Byerly Professor of Mathematics (*on leave 1999-00*)  
 Eric Sommers, Benjamin Peirce Lecturer of Mathematics; Assistant Professor of Mathematics, Associate of Adams House  
 Shlomo Z. Sternberg, George Putnam Professor of Pure and Applied Mathematics  
 Dmitry Tamarkin, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics  
 Clifford Taubes, William Petschek Professor of Mathematics (*Director of Undergraduate Studies*)  
 Richard L. Taylor, Professor of Mathematics  
 Robert Winters, Preceptor in Mathematics  
 Shing-Tung Yau, William Caspar Graustein Professor of Mathematics, William Casper Graustein Professor of Mathematics  
 Yuhan Zha, Benjamin Peirce Lecturer on Mathematics; Assistant Professor of Mathematics

***Other Faculty Offering Instruction in the Department of Mathematics***

Cumrun Vafa, Professor of Physics

The Mathematics Department would like to place students in 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. In addition, some members of the Department will be available during this period to consult with students.



One calculus sequence is Mathematics 1a, 1b, 21a, 21b. 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. Students who do not place into (or beyond) Mathematics 1a can take Mathematics Xa, Xb, a two-semester 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 21a. For example, Mathematics 19 can be taken either before or after Mathematics 21a,b (or Mathematics 20). Mathematics 19 covers modeling and differential equation topics for students interested in biological and other natural science applications. Mathematics 20 covers selected topics from Mathematics 21a and 21b for students particularly interested in economic applications. Mathematics 23 is an honors version of Mathematics 21 which treats multivariable calculus and linear algebra in a rigorous, proof oriented way. Mathematics 25 and 55 are honors 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 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 mathematics background.

Placement in Mathematics Xa, 1a, 1b, 20, and 21a is based on the results of the Harvard Mathematics Placement Test or the Advanced Placement Examinations.

Placement in Mathematics 21b, 23a, 25a, and more advanced courses is based on material not covered in these examinations. Students who have had substantial preparation beyond the level of the Advanced Placement Examinations are urged to consult the Department concerning their proper placement in mathematics courses. Students should take this matter very seriously and solicit all the advice they can get. The Department has prepared a pamphlet with a detailed description of all its 100-level courses and their relationship to each other. This pamphlet also gives sample lists of courses suitable for students with various interests. It is available at the Department Office. Many 100-level courses assume some familiarity with proofs. Courses that fulfill this prerequisite include Mathematics 23, 25, 55, 101, 112, 121, 141.

The Department does not grant formal degree credit for courses in calculus taken in reverse order without *prior* approval. 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 Department is prepared to make exception for sufficient academic reasons; in each case, however, a student must obtain written permission from the 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: Limited to 15 students per section.

*Robin Gottlieb, Andrew James Engelward, Tamara R. Lefcourt 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, and a twice weekly lab session to be arranged. 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 yearlong reinforcement. Applications to biology and economics emphasized according to the interests of our students.

*Note:* Required first meeting: Wednesday, September 22, 8:30 am, Science Center A. The sequence Xa, Xb gives solid preparation for Mathematics 1b.

**Mathematics Xb. Introduction to Functions and Calculus II**

Catalog Number: 3857 Enrollment: Limited to 15 students per section.

*Robin Gottlieb, Andrew James Engelward, Tamara R. Lefcourt 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, and a twice weekly lab session to be arranged. EXAM GROUP: 1

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.

*Prerequisite:* Mathematics Xa.

**Mathematics 1a. Introduction to Calculus**

Catalog Number: 8434

*Robert Winters, Lisa J. Carbone, and Grisha Mikhalkin (fall term); Robert Winters (spring term)*  
and members of the Department.

Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 10; Section II, M.,  
W., F., at 11; Section III, M., W., F., at 12; Section IV, Tu., Th., 10–11:30; Section V, Tu., Th.,  
11:30–1. Spring: Section 1, M., W., F., at 11, and a weekly problem session to be arranged.  
EXAM GROUP: 3, 4

Differential calculus of algebraic, logarithmic, and trigonometric functions with applications; an introduction to integration.

*Note:* Required first meeting in fall: Tuesday, September 21, 8:30 am, Science Center C.

*Prerequisite:* A solid background in precalculus.

**Mathematics 1b. Calculus, Series and Differential Equations**

Catalog Number: 1804

*Andrew James Engelward (fall term), Curtis T. McMullen (fall term), Tamara R. Lefcourt (fall term), Yuhan Zha (fall term), Tamara R. Lefcourt (spring term)* and members of the Department.  
Half course (fall term; repeated spring term). Section 1, M., W., F., at 10; Section II, M., W., F.,  
at 11; Section III, M., W., F., at 12; Section IV, Tu., Th., 10–11:30; Section V, Tu., Th., 11:30–1,  
and a weekly problem session to be arranged. Required exams: Hours to be arranged. EXAM

**GROUP: 1**

Integration and differential equations with applications. Approximations by polynomials and series.

*Note:* Required first meeting for fall: Thursday, September 23, 8:30 am, Science Center C.

Required first meeting in spring: Tuesday, February 1, 8:30 am, Science Center D.

*Prerequisite:* Mathematics 1a, or Xa and Xb, or equivalent.

**Mathematics 19. Mathematical Modeling**

Catalog Number: 1256

*Kalle Karu*

*Half course (fall term). M., W., F., at 1, and a weekly problem session 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 includes 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.

*Prerequisite:* Mathematics 1b, or permission of instructor.

**Mathematics 20. Introduction to Linear Algebra and Multivariable Calculus**

Catalog Number: 0906

*Nathan Dunfield*

*Half course (fall term; repeated spring term). Fall: M., W., F., at 9, Spring: M., W., F., at 9, and a weekly problem session to be arranged. EXAM GROUP: 2*

Introduction to linear algebra, including vectors, matrices, and applications. Calculus of functions of several variables, including partial derivatives, constrained and unconstrained optimization, and applications.

*Note:* Covers the topics from Mathematics 21a,b which are most important in applications to economics, the social sciences, and some other fields. 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.

*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: Limited to 30 students per section.

*Clifford Taubes (fall term), John David Boller (fall term), Yang Liu (fall term), Eric Sommers (fall term), Robert Winters (fall term), and Robert Winters (spring term), Daniel Allcock (spring term), Yang Liu (spring term), and members of the Department.*

*Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 9; 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, M., W., F., at 11; Section III, M., W., F., at 12; Section IV, Tu., Th., 10–11:30; Section V, Tu., Th., 11:30–1;*



*and a weekly problem session to be arranged. Required exams: Hours to be arranged. EXAM GROUP: 1*

Functions of many variables; vectors and parametric curves. Partial differentiation, directional derivatives, and the gradient. Maxima, minima, and saddle-points. Multiple integration in cartesian and polar coordinates. Vector fields, line and surface integrals. The divergence and curl. Green's, Stokes' and Divergence Theorems.

*Note:* Required first meeting in fall: Tuesday, September 21, 8:30 am, Science Center C.

Required first meeting in spring: Wednesday, February 2, 8:00 am, Science Center C. A special section for students taking physics will be offered in both semesters. May not be taken for credit by students who have passed Applied Mathematics 21a.

*Prerequisite:* Mathematics 1b or equivalent.

### **Mathematics 21b. Linear Algebra and Differential Equations**

Catalog Number: 1771

*Noam D. Elkies and John David Boller (fall term); John David Boller and Dmitry Tamarin (spring term), and members of the department.*

*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 9; 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 session to be arranged. EXAM GROUP: 1*

An introduction to linear algebra, including linear transformations and determinants, eigenvalues and eigenvectors. Ordinary differential equations and systems and their solution; applications.

*Note:* Required first meeting in fall: Thursday, September 23, 8:30 am, Science Center D.

Required first meeting in spring: Thursday, February 3, 8:30 am, Science Center D. May not be taken for credit by students who have passed Applied Mathematics 21b.

*Prerequisite:* Mathematics 21a or equivalent experience with vectors.

### **Mathematics 23a. Theoretical Linear Algebra and Multivariable Calculus I**

Catalog Number: 2486

*David Kazhdan*

*Half course (fall term). M., W., F., at 11, and a one-hour conference section to be arranged.*

*EXAM GROUP: 4*

Vectors and matrices; eigenvalues and eigenvectors; systems of linear differential equations; differentiation and integration of functions of several variables; line integrals.

*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.

*Prerequisite:* Mathematics 1b or a grade of 4 or 5 on the Calculus BC Advanced Placement Examination. This course does not correlate with the Physics 15 sequence. Mathematics 23 goes well beyond the concepts strictly necessary for Physics 15, which are more closely followed in Mathematics 21.

### **Mathematics 23b. Theoretical Linear Algebra and Multivariable Calculus II**

Catalog Number: 8571

*David Kazhdan*

*Half course (spring term). M., W., F., at 11, and a one-hour conference section to be arranged.*

*EXAM GROUP: 4*



Continuation of the subject matter of Mathematics 23a. A rigorous treatment of linear algebra and the calculus of functions in  $n$ -dimensional space.

*Prerequisite:* Mathematics 23a.

### **Mathematics 25a. Honors Multivariable Calculus and Linear Algebra**

Catalog Number: 1525

*Kalle Karu*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

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:* This course should only be elected by students with a strong interest and background in mathematics.

*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

*Kalle Karu*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

A continuation of Mathematics 25a. More advanced topics in differential and integral calculus: calculus of variations, Fourier series, and an introduction to the differential geometry of curves and surfaces in 3-space.

*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 2. EXAM GROUP: 7*

A rigorous treatment of point-set and metric topology, linear and bilinear algebra, and differential and integral calculus.

*Note:* Intended for students with significant experience with abstract mathematics. Instructor's permission required.

### **Mathematics 55b. Honors Advanced Multivariable Calculus and Linear Algebra**

Catalog Number: 3312

*Noam D. Elkies*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

Continuation of Mathematics 55a. Calculus of functions in  $n$  variables. Additional topics may include normed linear spaces, differential equations, and Fourier analysis.

*Prerequisite:* Mathematics 55a or permission of instructor.

### **\*Mathematics 60r. Reading Course for Senior Honors Candidates**

Catalog Number: 8500

*Clifford Taubes*

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



Advanced reading in topics not covered in courses.

*Note:* Open only 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/UNS only.

### **\*Mathematics 91r. Supervised Reading and Research**

Catalog Number: 2165

*Clifford Taubes*

*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

*Clifford Taubes and members of the Faculty*

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

Small group tutorials, ordinarily limited to Mathematics concentrators. Supervised individual projects and class presentations required. Topics for 1999-00: (1) Logic and the Foundations of Mathematics (*fall*) *Prerequisites:* Math 25, 55, or 101. (2) Analytic Number Theory (*fall*) *Prerequisites:* Math 113 or 115. (3) Geometry and Gauge Theory (*spring*) *Prerequisites:* Point Set Topology as in Math 112 or 131, and basic Group Theory as in Math 122.

*Note:* May be repeated for course credit with permission from the Director of Undergraduate Studies. Only one tutorial may count for concentration credit. Students must register their interest in taking a tutorial with the Assistant Director of Undergraduate Studies by the second day of the semester in which the tutorial is offered.

### ***Cross-listed Courses***

#### ***For Undergraduates and Graduates***

See also Applied Mathematics and Statistics.

### **Mathematics 101. Sets, Groups and Topology**

Catalog Number: 8066

*Daniel L. Goroff (fall term) and Curtis T. McMullen (spring term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 10–11:30; Spring: M., W., F., at 10.*

*EXAM GROUP: Fall: 12, 13; Spring: 3*

An introduction to rigorous mathematics, axioms, and proofs, via topics such as set theory, symmetry groups, low-dimensional topology and the classification of knots.

*Note:* Acquaintance 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 112. Real Analysis**

Catalog Number: 1123

*Daniel Allcock*



*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

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, 22a,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

*Ilia A. Binder*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

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 and the study of harmonic functions. An introduction to conformal geometry and conformal mappings.

*Prerequisite:* Mathematics 22a,b, 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

*Shlomo Z. Sternberg*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

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, 22a,b, 23a,b, or 25a,b, and permission of instructor.

### **Mathematics 118r. Dynamical Systems**

Catalog Number: 6402

*Shlomo Z. Sternberg*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Introduction to dynamical systems theory with a view toward applications. Topics include existence and uniqueness theorems for flows, qualitative study of equilibria and attractors, iterated maps, and bifurcation theory.

*Prerequisite:* Mathematics 22a,b, 23a,b, 25a,b, 55a,b, or 112.

### **Mathematics 119. Partial Differential Equations and Applications**

Catalog Number: 7326

*Peter B. Kronheimer*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

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

*Yang Liu*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Real and complex vector spaces, dual spaces, linear transformations and Jordan normal forms. Inner product spaces. Applications to linear programming, game theory 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 22a,b, 23a,b, 25a,b, or 55a,b.

### **Mathematics 122. Abstract Algebra I: Theory of Groups and Vector Spaces**

Catalog Number: 7855

*Eric Sommers*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Introduction to the theory of groups and group actions, with emphasis on finite groups and matrix groups. Sylow theorems. A short introduction to rings and fields. Vector spaces and linear transformations. Bilinear forms: symmetric, Hermitian, and skew-symmetric forms.

*Prerequisite:* Mathematics 21b and the ability to write proofs as in Mathematics 101, 121, or the equivalent.

### **Mathematics 123. Abstract Algebra II: Theory of Rings and Fields**

Catalog Number: 5613

*Eric Sommers*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Rings, ideals, and modules; unique factorization domains, principal ideal domains and Euclidean domains and factorization of ideals in each; structure theorems for modules; fields, field extensions. Automorphism groups of fields are studied through the fundamental theorems of Galois theory.

*Prerequisite:* Mathematics 122.

### **Mathematics 124. Number Theory**

Catalog Number: 2398

*Nathan Dunfield*

*Half course (spring 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

*Peter B. Kronheimer*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

Representation theory of finite groups including character theory, induced representations, Frobenius reciprocity, and interesting applications.



### Mathematics 128. Lie Algebras

Catalog Number: 6519

*Shlomo Z. Sternberg*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

General structures of Lie algebras, Poincaré-Birkhoff-Witt theorem, Campbell Hausdorff formula, Levi decomposition classification of simple Lie algebras and their representations.

### Mathematics 129. Topics in Number Theory

Catalog Number: 2345

*Barry C. Mazur*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Number fields, ideal class groups, Dirichlet unit theorem, zeta functions, with specific attention to cyclotomic fields.

*Prerequisite:* Mathematics 122 and 123.

### Mathematics 131. Topology

Catalog Number: 2381

*Lisa J. Carbone*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Basic notions of point set topology such as continuity, compactness, separation theorems, metrizable. 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 132x. Riemannian and Lorentzian Geometry

Catalog Number: 7149

*Yuhan Zha*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Levi-Civita connection, curvature, Jacobi fields with applications to general relativity and cosmology.

*Prerequisite:* A good grounding in multivariable calculus, such as Mathematics 22, 23, 25, or 55.

### Mathematics 134. Calculus on Manifolds

Catalog Number: 7150

*Tom Graber*

*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.

*Prerequisite:* Mathematics 21a,b and familiarity with proofs as in Mathematics 101, 112, 121, or the equivalent.

### **[Mathematics 135. Differential Topology]**

Catalog Number: 2107



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

Smooth manifolds, intersection theory, vector fields, Hopf degree theorem, Euler characteristic, De Rham theory.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Mathematics 22a,b, 23a,b, 25a,b, 55a,b, or 134.

### **Mathematics 136. Differential Geometry**

Catalog Number: 1949

*Shing-Tung Yau*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

Curves and surfaces in 3-space, Gaussian curvature and its intrinsic meaning, Gauss-Bonnet theorem, surfaces of constant curvature.

*Prerequisite:* Mathematics 21a,b and familiarity with proofs as in Mathematics 101, 112, 121, or equivalent.

### **Mathematics 137. Algebraic Geometry**

Catalog Number: 0556

*Brian Conrad*

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

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

*Grisha Mikhalkin*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Euclidean and non-Euclidean geometries in two and three dimensions.

*Prerequisite:* Mathematics 21a,b.

### **[Mathematics 141. Introduction to Mathematical Logic]**

Catalog Number: 0600

*Gerald E. Sacks*

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

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.

*Note:* Expected to be given in 2000–01. Expected to be given in 2000?01.

*Prerequisite:* Any mathematics course at the level of Mathematics 21a,b or higher, or permission of instructor.

### **[Mathematics 142. Recursion Theory]**

Catalog Number: 6531

*Gerald E. Sacks*



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

Normal forms. Universal Turing machines. Recursively enumerable sets. Turing degrees. Post's problems. Finite injury arguments. Splitting and density. Infinite injury arguments. Minimal pairs. Minimal degrees and  $P$  not equal to  $NP$ .

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Mathematics 141, or Computer Science 121 or permission of instructor.

### **Mathematics 143 (formerly Mathematics 143r). 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 191. Mathematical Probability**

Catalog Number: 4306

*Clifford Taubes*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to probability theory. Discrete and continuous random variables; univariate and multivariate distributions; conditional probability. Weak and strong laws of large numbers and the central limit theorem. Elements of stochastic processes: the Poisson process, random walks, and Markov chains.

*Prerequisite:* Any mathematics course at the level of Mathematics 21a,b or higher.

### **Mathematics 192. Algebraic Combinatorics**

Catalog Number: 5806

*Yuhan Zha*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Generating functions and enumerative combinatorics. Combinatorial algorithms. Representations of the symmetric groups. Symmetric functions and Schur functions.

### ***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**

**Philosophy 144. Logic and Philosophy**

### ***Primarily for Graduates***

**Mathematics 206. Lie Groups and Lie Algebras**

Catalog Number: 8330

*Wilfried Schmid*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*



Review of the basic results on Lie groups and Lie algebras, structure of compact Lie groups, finite dimensional representations, Borel-Weil-Bott theorem.

### **Mathematics 212a. Functions of a Real Variable**

Catalog Number: 5446

*Kim Froyshov*

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

A review of measure and integration. Banach spaces,  $L^p$  spaces, and the Riesz representation theorem.

*Prerequisite:* Experience with courses involving rigorous proofs: e.g., Mathematics 25a,b, 112, 122.

### **Mathematics 212b. Functions of a Real Variable**

Catalog Number: 7294

*Kim Froyshov*

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

Continuation of Mathematics 212a. Banach and Hilbert spaces. Self adjoint, normal operators and their functional calculus. Spectral theory. Integral and compact operators.

*Prerequisite:* Mathematics 212a.

### **Mathematics 213a. Functions of One Complex Variable**

Catalog Number: 1621

*Ilia A. Binder*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Review of basic complex analysis and further topics, including series and product developments, elliptic functions, Riemann surfaces and the uniformization theorem.

### **Mathematics 213b. Further Topics in Classical Complex Analysis**

Catalog Number: 2641

*Ilia A. Binder*

*Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Topics in conformal geometry and theory of conformal mappings. Introduction to functions of several complex variables and complex manifolds.

### **Mathematics 217. Representations of Reductive Lie Groups**

Catalog Number: 2006

*Wilfried Schmid*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Harish Chandra modules, Characters, the discrete series, classification of irreducible representations, Plancherel theorem, arithmetic subgroups.

### **Mathematics 230ar. Differential Geometry**

Catalog Number: 0372

*Kim Froyshov*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

A study of Riemannian manifolds, geodesics and curvature, and relations between curvature and



topology. Also, a discussion of connections in principal bundles, spinors and Dirac operators, and the Bochner method.

*Prerequisite:* Math 131 and familiarity with smooth manifolds.

### **Mathematics 230br. Differential Geometry**

Catalog Number: 0504

*Shing-Tung Yau*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Topics in Riemannian geometry, Kähler geometry, Hodge theory, and Yang-Mills theory.

*Note:* Continuation of Mathematics 230ar.

*Prerequisite:* Differential Topology.

### **Mathematics 250a. Higher Algebra**

Catalog Number: 4384

*Dmitry Tamarkin*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

Rudiments of category theory, modules and rings, representation theory of finite groups, and some homological algebra.

*Prerequisite:* Mathematics 123 or equivalent.

### **Mathematics 250b. Higher Algebra**

Catalog Number: 8464

*Dmitry Tamarkin*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

Commutative algebra, infinite Galois theory, and fields and valuations.

### **Mathematics 254. Arithmetic of Elliptic Modular Curves**

Catalog Number: 8391

*Barry C. Mazur*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

A focus on an exposition of Kolyvagin's technique of Euler systems and some of its arithmetic applications.

*Prerequisite:* Some acquaintance with Class Field Theory.

### **Mathematics 255a. Automorphic Representations and Galois Representations**

Catalog Number: 4723

*Richard L. Taylor*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A study of the recent work on the local Langlands conjecture for  $GL(n)$  and on the 1-adic cohomology of certain simple Shimura varieties. An introduction to various background topics such as: class field theory, formal groups, Drinfeld's theory of 1 dimensional formal groups, Shimura varieties, classification of abelian varieties over finite fields, automorphic forms, the trace formula, stabilization.

### **Mathematics 255b. Automorphic Representations and Galois Representations**

Catalog Number: 1382



*Richard L. Taylor*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Continuation of Mathematics 255a.

### **Mathematics 258. Deligne's Work on the Ramanujan Conjecture**

Catalog Number: 7655

*Brian Conrad*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

An explanation of Deligne's construction of 2-dimensional 1-adic representations associated to classical cuspidal modular forms, and his use of this to reduce the Ramanujan-Petersson Conjecture to the Weil Conjectures. The techniques involve a massive amount of étale cohomology and the arithmetic theory of modular curves, so we will try to carefully explain (if not prove) what we need from these areas.

*Prerequisite:* A solid understanding of schemes and classical theory of modular forms.

### **Mathematics 260a. Introduction to Algebraic Geometry**

Catalog Number: 7004

*Andreas Gathmann*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

Fundamentals of scheme theory, cohomology of quasi-coherent and coherent sheaves, algebraic curves, moduli schemes.

*Prerequisite:* Basic commutative algebra. Mathematics 137 desirable.

### **Mathematics 260b. Introduction to Algebraic Geometry**

Catalog Number: 2745

*Joseph D. Harris*

*Half course (spring term). M., W., F., at 2. EXAM GROUP: 7*

Continuation of Mathematics 260a.

*Prerequisite:* Mathematics 260a.

### **[Mathematics 261y. Geometry of Semisimple Groups and Their Representations]**

Catalog Number: 2809

*David Kazhdan*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

A study of finite-dimensional representations semisimple groups and special base in such representations. A study of the relations between this special base and the geometry of the corresponding semisimple group.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A basic knowledge of the structure theory of semisimple Lie algebras.

### **Mathematics 262y. Introduction to Invariant Theory**

Catalog Number: 4254

*Igor Dolgachev (University of Michigan)*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

A discussion of both the algebraic invariant theory that studies polynomial functions which are invariant under a group of linear transformations of the variables and the geometric invariant



theory that studies the problem of construction of the orbit space of an algebraic variety under acted on by an algebraic linear group. If time permits, a discussion of some applications of the theory of construction of various moduli spaces studied in algebraic geometry.

*Prerequisite:* A basic knowledge of algebraic geometry on the level of Mathematics 260a.

### **Mathematics 263r. Arakelov Geometry for Novices**

Catalog Number: 8534

*Yuhan Zha*

*Half course (fall term). M., W., F., at 10.*

An introduction to the basics of Arakelov geometry through a thorough study of very simple examples along with some of the basic, fundamental historical examples which motivated the development.

*Note:* No prior knowledge of the subject will be assumed. However, knowledge of some basic algebraic geometry (at the level of Mathematics 137) will be helpful.

### **Mathematics 265. The Langlands Lifting**

Catalog Number: 9242

*David Kazhdan*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Let  $G$  be a reductive group over a local field  $F$ , We denote by  $\text{Irr}(G(F))$  the set of irreducible complex representations of the group  $G(F)$ . Let  $G^\wedge$  be the Langlands dual group. By the definition  $G^\wedge$  is a reductive complex group. Langlands conjectured that to any algebraic  $n$ -dimensional representation  $\rho$  of  $G$  one can associate the map from  $\text{Irr}(G(F))$  to  $\text{Irr}(GL(n,F))$ . Moreover he conjectured the existence of analogous global lifting for the set of automorphic representations. In this course, we will discuss the possibilities for writing explicit formulas for the lifting.

### **Mathematics 267x. Topics in Differential Geometry**

Catalog Number: 2140

*Richard M. Schoen (Stanford University)*

*Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

A focus on volume minimization for submanifolds. We will develop the set-up for solving the Plateau problem, and explain how this can be extended to the setting in which the competing submanifolds are lagrangian submanifolds of a symplectic or Kaehler manifold. Topics will include rectifiability, first and second variation of volume, monotonicity, and some regularity theory. Also some discussion of special lagrangian submanifolds.

### **Mathematics 268r. Topics in Differential Geometry**

Catalog Number: 7379

*Shing-Tung Yau*

*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*

Subjects on minimal surfaces and Kähler Einstein metrics. A discussion of general techniques on quasilinear and fully nonlinear elliptic equations.

### **Mathematics 269x. Geometry of Algebraic Curves**

Catalog Number: 3247



*Joseph D. Harris*

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

Linear systems and maps to projective space; automorphisms, Weierstrass points, inflectionary points; geometry of the varieties parametrizing special linear series on  $\mathbb{C}$ ; theta-characteristics; enumerative geometry of the symmetric products of a curve and of its Jacobian, and applications. Local deformation theory of smooth and singular curves; limits of line bundles and linear systems on families of curves. Various parameter spaces of curves in projective space (the Hurwitz scheme, the Severi varieties, and the Hilbert schemes) and also the moduli space of abstract curves of genus  $g$ .

### **Mathematics 271. Topology of Algebraic Varieties**

Catalog Number: 8063

*Grisha Mikhalkin*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Possible topics include: introduction to topology of complex varieties: Lefschetz pencils and vanishing cycles; topology of complex isolated singularities: Milnor fibers and their monodromy; bifurcations of  $A$ - $n$ ,  $D$ - $n$ ,  $E$ -6,  $E$ -7, and  $E$ -8 singularities (over  $\mathbb{C}$  and over  $\mathbb{R}$ ); introduction to topology of real varieties; real curves and surfaces; Hilbert's 16th problem: constructions and prohibitions; construction of maximal real varieties in higher dimension; patchworking of algebraic varieties.

### **Mathematics 272a. Introduction to Algebraic Topology**

Catalog Number: 1666

*Daniel Allcock*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Homotopy theory. Covering spaces and fibrations. Simplicial and CW complexes. Manifolds. Homology theories. Universal coefficients and Künneth formulas. Hurewicz theorem. Applications to fixed point theory and other topics.

*Prerequisite:* Mathematics 131 or permission of instructor.

### **Mathematics 272b. Introduction to Algebraic Topology**

Catalog Number: 6502

*Peter B. Kronheimer*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Cohomology theories. Duality theorems. Fibre bundles. Spectral sequences. Eilenberg-MacLane spaces.

*Prerequisite:* Mathematics 272a.

### **Mathematics 274. Mathematical Aspects of String Theory**

Catalog Number: 6210

*Cumrun Vafa*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A review of certain mathematical aspects of string theory and topological field theories.

### **Mathematics 275x. Topics in Complex Dynamics and Hyperbolic Geometry**

Catalog Number: 0683



*Curtis T. McMullen*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

A discussion of the interplay of complex analysis, negative curvature, conformal dynamics and low-dimensional topology.

***Graduate Courses of Reading and Research***

**Mathematics 301. Theory and Practice of Teaching in the Mathematical Sciences**

Catalog Number: 4344

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*Half course (fall term; repeated spring term). Hours to be assigned.*

**\*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*

**\*Mathematics 312. Topics in Geometry and Representation Theory**

Catalog Number: 5174

*Tom C. Braden 3586 (on leave 1999-00)*

**\*Mathematics 314. Topics in Differential Geometry and Mathematical Physics**

Catalog Number: 2743

*Shlomo Z. Sternberg 1965*

**\*Mathematics 318. Topics in Number Theory**

Catalog Number: 7393

*Barry C. Mazur 1975*

**\*Mathematics 320. Topics in Topology and Real Algebraic Geometry**

Catalog Number: 5460

*Grisha Mikhalkin 3590*

**\*Mathematics 321. Topics in Mathematical Physics**

Catalog Number: 2297

*Arthur M. Jaffe 2095*

**\*Mathematics 325. Topics in Mathematics**

Catalog Number: 5928

*David Kazhdan 4668*



**\*Mathematics 327. Topics in Several Complex Variables**

Catalog Number: 0409

*Yum Tong Siu 7550 (on leave 1999-00)*

**\*Mathematics 331. Topics in Topology and Geometry**

Catalog Number: 7992

*Nathan Dunfield 2311*

**\*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 337. Topics in Algebraic Geometry**

Catalog Number: 9000

*Kalle Karu 2366*

**\*Mathematics 338. Topics in Algebra**

Catalog Number: 5996

*Lisa J. Carbone 3587*

**\*Mathematics 345. Topics in Geometry and Topology**

Catalog Number: 4108

*Peter B. Kronheimer 1759*

**\*Mathematics 346. Topics in Deformation Theory**

Catalog Number: 8245

*Dmitry Tamarkin 2463*

**\*Mathematics 347. Topics in Complex Analysis**

Catalog Number: 7343

*Ilia A. Binder 3585*

**\*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 352. Topics in Complex Manifolds**

Catalog Number: 7458

*Yang Liu 2158*

**\*Mathematics 353. Topics in Lattices and Arithmetic Groups in Algebraic Geometry**

Catalog Number: 0570

*Daniel Allcock 2186*

**\*Mathematics 356. Topics in Harmonic Analysis**

Catalog Number: 6534

*Wilfried Schmid 5097*

**\*Mathematics 358. Topics in Gauge Theory**

Catalog Number: 8246

*Kim Froyshov 1104*

**\*Mathematics 365. Topics in Differential Geometry**

Catalog Number: 4647

*Shing-Tung Yau 1734*

**\*Mathematics 372. Topics in Arakelov Geometry**

Catalog Number: 9471

*Yuhan Zha 2282*

**\*Mathematics 382. Topics in Algebraic Geometry**

Catalog Number: 2037

*Joseph D. Harris 2055*

**\*Mathematics 385. Topics in Representation Theory**

Catalog Number: 7037

*Eric Sommers 2247*

**\*Mathematics 387. Topics in Number Theory**

Catalog Number: 2665

*Brian Conrad 2383*

**\*Mathematics 389. Topics in Number Theory**

Catalog Number: 6851

*Noam D. Elkies 2604*



# 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 (*Medical School*) (*Chair*)  
 Constance L. Cepko, Professor of Genetics (*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*)  
 Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology  
 Thomas O. Fox, Associate Professor of Neuroscience (*Medical School*) (*ex officio*)  
 Edward E. Harlow, Professor of Genetics and American Cancer Society Research Professor of Molecular Genetics (*Medical School*)  
 Stephen C. Harrison, Higgins Professor of Biochemistry  
 Peter M. Howley, George Fabyan Professor of Comparative Pathology (*Medical School*) (*ex officio*)  
 Dennis L. Kasper, William Ellery Channing Professor of Medicine (*Medical School*) (*ex officio*)  
 Elliott D. Kieff, Harriet Ryan Albee Professor of Medicine and Professor of Microbiology and Molecular Genetics (*Medical School*)  
 Philip Leder, John Emory Andrus Professor of Genetics (*Medical School*)  
 Hidde Ploegh, Mallinkrodt Professor of Immunopathology and Professor of Pathology (*Medical School*)  
 Joan V. Ruderman, Marion V. Nelson Professor of Cell Biology (*Medical School*)

### *Other Faculty Offering Instruction in the Division of Medical Sciences*

Sudeshna Adak, Assistant Professor in the Department of Biostatistics (*Public Health*)  
 Chester Alper, Professor of Pediatrics (*Medical School*)  
 Frederick W. Alt, Charles A. Janeway Professor of Genetics (*Medical School*)  
 Everett Anderson, James Stillman Professor of Comparative Anatomy (*Medical School*)  
 Paul J. Anderson, Associate Professor of Medicine (*Medical School*)  
 Nancy Andrews, Associate Professor of Pediatrics (*Medical School*)  
 Peter Arvan, Assistant Professor of Medicine (*Medical School*)  
 John A. Assad, Assistant Professor of Neurobiology (*Medical School*)  
 Hugh Auchincloss, Cross-listed: Other Faculty (*Medical School*)  
 Dennis A. Ausiello, Jackson Professor of Clinical Medicine (*Medical School*)  
 K. Frank Austen, Professor of Medicine (*Medical School*)  
 Frederick Ausubel, Professor of Genetics (*Medical School*)  
 John A. Badwey, Instructor in Biological Chemistry and Molecular Pharmacology (*Medical School*)  
 Hamid Band, Associate Professor of Medicine (*Medical School*)  
 Robert B. Banzett, Associate Professor of Medicine and Associate Professor in the Department of Environmental Health (*Medical School, Public Health*)



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, Assistant Professor of Pediatrics (*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*)  
Gilles A. Benichou, Cross-listed: Other Faculty (*Medical School*)  
Thomas L. Benjamin, Professor of Pathology (*Medical School*)  
Larry I. Benowitz, Associate Professor of Neurosurgery (*Medical School*)  
Jack Bergman, Associate Professor of Psychobiology (*Medical School*)  
Andre Bernards, Associate Professor of Medicine (*Medical School*)  
Merton Bernfield, Clement A. Smith Professor of Pediatrics and Professor of Anatomy and Biology (*Medical School*)  
Marla J. Berry, Assistant Professor of Medicine (*Medical School*)  
John D. Biggers, Professor of Cell Biology (*Medical School*)  
Joyce E. Bischoff, Assistant Professor of Cellular and Molecular Physiology (Surgery) (*Medical School*)  
Stephen C. Blacklow, Assistant Professor of Pathology (*Medical School*)  
T. Keith Blackwell, Assistant Professor of Pathology (*Medical School*)  
John Blenis, Professor of Cell Biology (*Medical School*)  
Kurt J. Bloch, Professor of Medicine (*Medical School*)  
Richard Steven Blumberg, Cross-listed: Professor (*Medical School*)  
Richard T. Born, Assistant Professor of Neurobiology (*Medical School*)  
Joseph D. Brain, Cecil K. and Phillip Drinker Professor of Environmental Physiology (*Public Health*)  
Xandra O. Breakefield, Professor of Neurology (*Medical School*)  
Michael B. Brenner, K. Frank Austen Professor of Medicine (*Medical School*)  
Dennis Brown, Associate Professor of Pathology (*Medical School*)  
Robert H. Brown, Cross-listed: Other Faculty (*Medical School*)  
Joan S. Brugge, Professor of Cell Biology (*Medical School*)  
Linda D. Buck, Associate Professor of Neurobiology (*Medical School*)  
Kathleen M. Buckley, Associate Professor of Neurobiology (*Medical School*)  
H. Franklin Bunn, Professor of Medicine (*Medical School*)  
Steven J. Burakoff, Professor of Pediatrics (*Medical School*)  
Stephen Buratowski, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Rami Burstein, Assistant Professor of Neurobiology (*Medical School*)  
Stephen Calderwood, Associate Professor of Medicine (*Medical School*)  
Hannia Campos, Assistant Professor of Nutrition (*Public Health*)  
Stephen C. Cannon, Associate Professor of Neurology (*Medical School*)  
Lewis C. Cantley, Professor of Cell Biology (*Medical School*)  
Harvey Cantor, Professor of Pathology (*Medical School*)  
Charles B. Carpenter, Professor of Medicine (*Medical School*)  
Michael C. Carroll, Associate Professor of Pathology (*Medical School*)  
Lan Bo Chen, Professor of Pathology (*Medical School*)



William W. Chin, Professor of Medicine (*Medical School*)  
George M. Church, Professor of Genetics (*Medical School*)  
David E. Clapham, Professor of Neurobiology (*Medical School*)  
Donald M. Coen, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Tucker Collins, Professor of Pathology (*Medical School*)  
David P. Corey, Professor of Neurobiology (*Medical School*)  
Gabriel Corfas, Assistant Professor of Neurology (*Medical School*)  
Clyde S. Crumpacker II, Professor of Medicine (*Medical School*)  
James Morgan Cunningham, Cross-listed: Professor (*Medical School*)  
Patricia A. D'Amore, Professor of Ophthalmology (*Medical School*)  
Alan D. D'Andrea, Associate Professor of Pediatrics (*Medical School*)  
John R. David, Professor of Medicine (*Medical School*) and Richard Pearson Strong Professor of Tropical Public Health (*Public Health*)  
Charles R. Dearolf, Associate Professor of Pediatrics (Genetics) (*Medical School*)  
James A. DeCaprio, Associate Professor of Medicine (*Medical School*)  
Ronald A. Depinho, Cross-listed: Unknown rank (*Medical School*)  
Ronald C. Desrosiers, Professor of Microbiology and Molecular Genetics (*Medical School*)  
William F. Dietrich, Assistant Professor of Genetics (*Medical School*)  
Patricia K. Donahoe, Marshall K. Bartlett Professor of Surgery (*Medical School*)  
Martin E. Dorf, Professor of Pathology (*Medical School*)  
John E. Dowling, Harvard College Professor and the Maria Moors Cabot Professor of Natural Sciences  
Ursula C. Dräger, Associate Professor of Psychiatry (*Medical School*)  
Glenn Dranoff, Assistant Professor of Medicine (*Medical School*)  
Thaddeus P. Dryja, Jr., David Glendenning Cogan Professor of Ophthalmology (*Medical School*)  
Anindya Dutta, Assistant Professor of Pathology (*Medical School*)  
Ann Marie Dvorak, Professor of Pathology (*Medical School*)  
Susan M. Dymecki, Assistant Professor of Genetics (*Medical School*)  
Nicholas J. Dyson, Associate Professor of Medicine (*Medical School*)  
Michael J. Eck, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Elaine A. Elion, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Thomas E. Ellenberger, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Alan M. Engelman, Assistant Professor of Pathology (*Medical School*)  
Tamar L. Enoch, Associate Professor of Genetics (*Medical School*)  
Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology  
Myron E. Essex, Mary Woodard Lasker Professor of Health Sciences (*Public Health*)  
R. Alan Ezekowitz, Charles Wilder Professor of Pediatrics (*Medical School*)  
Daniel D. Federman, Carl W. Walter Professor of Medicine and Medical Education (*Medical School*)  
Robert Finberg, Professor of Medicine (*Medical School*)  
Joyce Diane Fingeroth, Assistant Professor of Medicine (*Medical School*)



Daniel Finley, Associate Professor of Cell Biology (*Medical School*)  
David E. Fisher, Associate Professor of Pediatrics (*Medical School*)  
Mark C. Fishman, Professor of Medicine (*Medical School*)  
John G. Flanagan, Associate Professor of Cell Biology (*Medical School*)  
William C. Forrester, Assistant Professor of Pathology (*Medical School*)  
Dan G. Fraenkel, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Christin A. Frederick, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Edwin J. Furshpan, Robert Henry Pfeiffer Professor of Neurobiology (*Medical School*)  
Dana Gabuzda, Associate Professor of Neurology (*Medical School*)  
Raif S. Geha, Professor of Pediatrics (*Medical School*)  
Lee Gehrke, Professor of Health Sciences and Technology and MMG (*Medical School*)  
Katia Georgopoulos, Associate Professor of Dermatology (*Medical School*)  
John Gergely, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Grace Gill, Assistant Professor of Pathology (*Medical School*)  
D. Gary Gilliland, Associate Professor of Medicine (*Medical School*)  
Michael A. Gimbrone, Elsie T. Friendman Professor of Pathology (*Medical School*)  
Ilene K. Gipson, Professor of Ophthalmology (*Medical School*)  
Laurie H. Glimcher, Professor of Medicine (*Medical School*) and Irene Heinz Given Professor of Immunology (*Public Health*)  
David E. Golan, Associate Professor of Medicine and Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Alfred L. Goldberg, Professor of Cellular and Molecular Physiology (*Medical School*)  
Irving H. Goldberg, Otto Kraye Professor of Pharmacology (*Medical School*)  
Peter Goldman, Maxwell Finland Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*) and Professor of Health Sciences in Nutrition (*Public Health*)  
Beatriz Susana Gonzalez Flecha, Cross-listed: Unknown rank (*Medical School*)  
Daniel A. Goodenough, Takeda Professor of Cell Biology (*Medical School*)  
Howard M. Goodman, Professor of Genetics (*Medical School*)  
Heinrich G.J. Gottlinger, Associate Professor of Pathology (*Medical School*)  
Howard Green, George Higginson Professor of Cellular and Molecular Physiology (*Medical School*)  
Jeremy Green, Assistant Professor of Genetics (*Medical School*)  
Michael E. Greenberg, Professor of Neurology (*Medical School*)  
Michael Grusby, Associate Professor of Molecular Immunology and Assistant Professor of Medicine (*Public Health*)  
James Gusella, Professor of Genetics (*Medical School*)  
Daniel A. Haber, Associate Professor of Medicine (*Medical School*)  
David Hafler, Associate Professor of Neurology (NSCI) (*Medical School*)  
Iswar K. Hariharan, Associate Professor of Medicine (*Medical School*)  
Edward E. Harlow, Professor of Genetics and American Cancer Society Research Professor of Molecular Genetics (*Medical School*)  
Donald A. Harn, Professor of Tropical Public Health (*Public Health*)  
Anne C. Hart, Assistant Professor of Pathology (*Medical School*)  
Elizabeth D. Hay, Louise Foote Pfeiffer Professor of Embryology (*Medical School*)



Wilson C. Hayes, Maurice Edmond Mueller Professor of Biomechanics (*Medical School*)  
Xi He, Assistant Professor of Neurology (*Medical School*)  
Martin E. Hemler, Professor of Pathology (*Medical School*)  
Philip W. Hinds, Assistant 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, Public Health*)  
Ann Hochschild, Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
James M. Hogle, Edward S. Harkness Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Victor Wee Hsu, Cross-listed: Other Faculty (*Medical School*)  
David H. Hubel, John Franklin Enders University Professor of Neurobiology (*Medical School*)  
Bradley T. Hyman, Associate Professor of Neurology (*Medical School*)  
John J. Iacomini, Assistant Professor of Surgery (*Medical School*)  
Donald E. Ingber, Associate Professor of Pathology (*Medical School*)  
Luisa Iruela-Arispe, Assistant Professor of Pathology (*Medical School*)  
Ole S. Isacson, Associate Professor of Neurology (*Medical School*)  
Kurt I. Isselbacher, Mallinckrodt Professor of Medicine (*Medical School*)  
Rakesh K. Jain, A. Werk Cook Professor of Radiation Oncology (*Medical School*)  
Paul A. Janmey, Associate Professor of Medicine (*Medical School*)  
Farish A. Jenkins, Jr., Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Biology, and Professor of Anatomy in the Harvard-MIT Division of Health Sciences and Technology (*Medical School*)  
Jae Ung Jung, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
C. Ronald Kahn, Mary K. Iacocca Professor of Medicine (*Medical School*)  
Lee M. Kaplan, Assistant Professor of Medicine (*Medical School*)  
Morris J. Karnovsky, Shattuck Professor of Pathological Anatomy (*Medical School*)  
Howard R. Katz, Cross-listed: Unknown rank (*Medical School*)  
Andrius Kazlauskas, Associate Professor of Ophthalmology (*Medical School*)  
Vicki Rubin Kelley, Cross-listed: Other Faculty (*Medical School*)  
Samuel Kennedy, Lecturer on Cell Biology (*Medical School*)  
Roya Khosravi-Far, Assistant Professor of Pathology (*Medical School*)  
Jean-Pierre Kinet, Cross-listed: Other Faculty (*Medical School*)  
Robert E. Kingston, Professor of Genetics (*Medical School*)  
Tomas Kirchhausen, Associate Professor of Cell Biology (*Medical School*)  
Marc W. Kirschner, Carl Walter Professor of Medicine and Cell Biology (*Medical School*)  
Michael Klagsbrun, Professor of Surgery (*Medical School*)  
Nancy Kleckner, Professor of Biochemistry and Molecular Biology  
David M. Knipe, Higgins Professor of Microbiology and Molecular Genetics (*Medical School*)  
Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Bruce R. Korf, Associate Professor of Neurology (*Medical School*)  
Walter J. Koroshetz, Associate Professor of Medicine and Assistant Professor of Neurology (*Medical School*)  
Stanley J. Korsmeyer, Cross-listed: Unknown rank (*Medical School*)  
Kenneth S. Kosik, Professor of Neurology (*Medical School*)  
Edward A. Kravitz, George Packer Berry Professor of Neurobiology (*Medical School*)  
Jordan A. Kreidberg, Assistant Professor of Pediatrics (*Medical School*)



Vijay K. Kuchroo, Associate Professor of Neurology (*Medical School*)  
Louis M. Kunkel, Professor of Genetics and Professor of Pediatrics (*Medical School*)  
Lois A. Lampson, Associate Professor of Neuroscience (*Medical School*)  
Peter T. Lansbury, Associate Professor of Neurology (*Medical School*)  
P. Reed Larsen, Professor of Medicine (*Medical School*)  
Andrew B. Lassar, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Claude P. Lechene, Visiting Professor of Medicine (*Medical School*)  
Catherine A. Lee, Silas Arnold Houghton Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
Jeannie T. Lee, Assistant Professor of Genetics (*Medical School*)  
Tun-Hou Lee, Associate Professor of Virology (*Medical School*)  
Marjorie B. Lees, Professor of Biochemistry, Emerita (*Medical School*)  
Norman Letvin, Professor of Medicine (*Medical School*)  
Harvey Louis Levy, Associate Professor of Pediatrics (*Medical School*)  
Rong Li, Assistant Professor of Cell Biology (*Medical School*)  
Towia A. Libermann, Assistant Professor of Medicine (*Medical School*)  
Andrew H. Lichtman, Assistant Professor of Pathology (*Medical School*)  
Judy Lieberman, Associate Professor of Pediatrics (*Medical School*)  
Edmund C. C. Lin, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Stuart A. Lipton, Associate Professor of Surgery (Neuroscience) (*Medical School*)  
John B. Little, James Stevens Simmons Professor of Radiobiology (*Public Health*)  
David M. Livingston, Emil Frei Professor of Medicine (*Medical School*)  
Margaret S. Livingstone, Professor of Neurobiology (*Medical School*)  
Clifford Lo, Assistant Professor of Pediatrics (*Medical School*)  
Mary R. Loeken, Assistant Professor of Medicine (*Medical School*)  
David N. Louis, Associate Professor of Pathology (*Medical School*)  
Kun Ping Lu, Cross-listed: Other Faculty (*Medical School*)  
Andrew David Luster, Cross-listed: Other Faculty (*Medical School*)  
Samuel E. Lux IV, Robert A. Stranahan Professor of Pediatrics (*Medical School*)  
Richard L. Maas, Associate Professor of Medicine (*Medical School*)  
Jeffrey D. Macklis, Associate Professor of Neurology (*Medical School*)  
Joseph A. Majzoub, Associate Professor of Pediatrics and Medicine (*Medical School*)  
Jarema Malicki, Assistant Professor of Ophthalmology (*Medical School*)  
Richard H. Masland, Charles Anthony Pappas Professor of Neuroscience (*Medical School*)  
Karl S. Matlin, Associate Professor of Medicine (*Medical School*)  
Bruce J. Mayer, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
Peter McCaffery, Assistant Professor of Psychiatry (*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, Higgins Professor of Microbiology and Molecular Genetics (*Medical School*)  
Mark Mercola, Associate Professor of Cell Biology (*Medical School*)  
Matthew Langer Meyerson, Assistant Professor of Pathology (*Medical School*)  
Alan M. Michelson, Assistant Professor of Medicine (*Medical School*)  
Keith W. Miller, Mallinckrodt Professor of Pharmacology (*Medical School*)



Timothy J. Mitchison, Professor of Cell Biology (*Medical School*)  
Joseph P. Mizgerd, Cross-listed: Unknown rank (*Medical School*)  
Danesh Moazed, Assistant Professor of Cell Biology (*Medical School*)  
Donald K. Morisato, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
James Morris, Junior Fellow of the Society of Fellows (*Medical School*)  
William H. Morse, Professor of Psychobiology (*Medical School*)  
Cynthia C. Morton, Professor of Pathology and William Lambert Richards Professor of Obstetrics, Gynecology, and Reproductive Biology (*Medical School*)  
Edmund A. Mroz, Jr., Associate Professor of Physiology (*Medical School*)  
Richard C. Mulligan, Professor of Genetics (*Medical School*)  
Karl Münger, Associate Professor of Pathology (*Medical School*)  
Cathryn R. Nagler-Anderson (*Medical School*)  
Nobuki Nakanishi, Assistant Professor of Neurobiology (*Medical School*)  
Benjamin Neel, Associate Professor of Medicine (*Medical School*)  
Eva J. Neer, Professor of Medicine and Tutor in Biochemical Sciences (*Medical School*)  
Ellis J. Neufeld, Associate Professor of Pediatrics (*Medical School*)  
Rachael L. Neve, Associate Professor of Genetics (*Medical School*)  
Anne Nicholson-Weller (*Medical School*)  
Donald S. O'Hara, Lecturer on Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Marjorie A. Oettinger, Associate Professor of Genetics (*Medical School*)  
Bjørn R. Olsen, Hersey Professor of Cell Biology and Professor of Oral Biology (*Medical School*)  
Santa Jeremy Ono, Associate Professor of Ophthalmology (*Medical School*)  
Stuart H. Orkin, Leland Fikes Professor of Pediatric Medicine (*Medical School*)  
Jeffrey D. Parvin, Assistant Professor of Pathology (*Medical School*)  
David L. Paul, Professor of Neurobiology (*Medical School*)  
Joseph D. Paulauskis, Associate Professor of Molecular Biology (*Public Health*)  
Henry P. Paulus, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Michael Pazin, Cross-listed: Other Faculty (*Medical School*)  
David Pellman, Assistant Professor of Pediatrics (*Medical School*)  
Lizabeth A. Perkins, Assistant Professor of Surgery (Genetics) (*Medical School*)  
Norbert Perrimon, Professor of Genetics (*Medical School*)  
Shiv S. Pillai, Associate Professor of Medicine (*Medical School*)  
David D. Potter, Robert Winthrop Professor of Neurobiology (*Medical School*)  
Robert R. Rando, Gustavus Adolphus Pfeiffer Professor of Biological Chemistry and Molecular Pharmacology (*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*)  
Guy L. Reed III, Assistant Professor of Medicine (*Medical School*) and Assistant Professor of Immunology (*Public Health*)  
Robin Reed, Professor of Cell Biology (*Medical School*)



Wade G. Regehr, Associate Professor of Neurobiology (*Medical School*)  
R. Clay Reid, Associate Professor of Neurobiology (*Medical School*)  
Ellis L. Reinherz, Professor of Medicine (*Medical School*)  
Steven M. Reppert, Professor of Pediatrics (*Medical School*)  
Charles C. Richardson, Edward S. Wood Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Fred S. Rosen, James L. Gamble Professor of Pediatrics (*Medical School*)  
Michael Rosenblatt, Ebert Professor of Molecular Medicine (*Medical School*)  
Nadia Rosenthal, Cross-listed: Other Faculty (*Medical School*)  
Andre Rosowsky, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Christopher E. Rudd, Associate Professor of Pathology (*Medical School*)  
Joan V. Ruderman, Marion V. Nelson Professor of Cell Biology (*Medical School*)  
Ruth Margrit Ruprecht, Associate Professor of Medicine (*Medical School*)  
Mary E. Russell, Assistant Professor of Medicine (*Medical School*) and Assistant Professor of Cardiovascular Biology (*Public Health*)  
Gary B. Ruvkun, Professor of Genetics (*Medical School*)  
David H. Sachs, Paul S. Russell/Warner Lambert Professor of Surgery (*Medical School*)  
Frank M. Sacks, Associate Professor of Medicine (*Medical School*) and Associate Professor in the Department of Nutrition (*Public Health*) (*Medical School*, *Public Health*)  
Haruo Saito, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Leona D. Samson, Professor of Toxicology (*Public Health*)  
John C. Samuelson, Associate Professor of Tropical Public Health (*Public Health*) and Clinical Fellow in Pathology (*Medical School*)  
Clifford B. Saper, James Jackson Putnam Professor of Neurology (*Medical School*)  
David Thomas Scadden, Cross-listed: Other Faculty (*Medical School*)  
Priscilla A. Schaffer, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Robert H. Schiestl, Associate Professor of Toxicology (*Public Health*)  
Stuart F. Schlossman, Baruj Benacerraf Professor of Medicine (*Medical School*)  
Bruce J. Schnapp, Associate Professor of Cell Biology (*Medical School*)  
Stuart L. Schreiber, Morris Loeb Professor of Chemistry and Chemical Biology (*on leave 1999-00*)  
Thomas M. Schultheiss, Assistant Professor of Medicine (*Medical School*)  
Peter H. Schur, Professor of Medicine (*Medical School*)  
Brian Seed, Professor of Genetics (*Medical School*)  
Rosalind A. Segal, Assistant Professor of Neurology (*Medical School*)  
Rosalyn A. Segal, Assistant Professor of Neurobiology (*Medical School*)  
Jonathan G. Seidman, Henrietta B. and Frederick H. Bugher Foundation Professor of Genetics (*Medical School*)  
Dennis J. Selkoe, Professor of Neurology (*Medical School*)  
Charles N. Serhan, Professor of Anaesthesia (*Medical School*)  
Jeffrey E. Settleman, Associate Professor of Medicine (*Medical School*)  
William F. Sewell, Associate Professor of Otolaryngology and Laryngology (*Medical School*)  
Arlene H. Sharpe, Associate Professor of Pathology (*Medical School*)  
Steven A. Shea, Assistant Professor in the Department of Environmental Health (*Public Health*) and Assistant Professor of Medicine (*Medical School*)



Morgan H. Sheng, Associate Professor of Neurobiology (*Medical School*)  
Gordon Sherman, Assistant Professor of Neurology (Neuroscience) (*Medical School*)  
Yang Shi, Associate Professor of Pathology (*Medical School*)  
Charles B. Shoemaker, Assistant Professor of Tropical Public Health (*Public Health*)  
Stephanie A. Shore, Associate Professor of Physiology (*Public Health*)  
Piotr Sicinski, Assistant Professor of Pathology (*Medical School*)  
Pamela A. Silver, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Gary A. Silverman, Associate Professor of Pediatrics (*Medical School*)  
Harvey B. Simon, Associate Professor of Medicine (*Medical School*)  
David Andrew Sinclair, Assistant Professor of Pathology (*Medical School*)  
Jeffrey L. Sklar, Professor of Pathology (*Medical School*)  
Joseph G. Sodroski, Professor of Pathology *Medical School* and Professor of Cancer Biology (*Public Health*)  
Sergei Y. Sokol, Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
Bruce M. Spiegelman, Professor of Cell Biology (*Medical School*)  
Robert G. Spiro, Professor of Biological Chemistry (*Medical School*)  
Timothy A. Springer, Latham Family Professor of Pathology (*Medical School*)  
Ivan Stamenkovic, Associate Professor of Pathology (*Medical School*)  
Michael Starnbach, Assistant Professor of Microbiology and Molecular Genetics (*Medical School*)  
Richard L. Stevens, Associate Professor of Medicine (*Medical School*)  
Charles D. Stiles, Professor of Microbiology and Molecular Genetics (*Medical School*)  
Thomas P. Stossel, Professor of Medicine (*Medical School*)  
William M. Strauss, Assistant Professor of Medicine (*Medical School*)  
Gary R. Strichartz, Professor of Anaesthesia (*Medical School*)  
Jack L. Strominger, Higgins Professor of Biochemistry  
Kevin Struhl, David Wesley Gaiser Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Megan Sykes, Associate Professor of Surgery (*Medical School*)  
Jack Szostak, Professor of Genetics (*Medical School*)  
Clifford J. Tabin, Professor of Genetics (*Medical School*)  
Stanley Tabor, Lecturer on Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Rudolph Emile Tanzi, Associate Professor of Neurology (*Medical School*)  
Armen H. Tashjian, Jr., Professor of Toxicology in the Faculty of Public Health, *emeritus* (*Public Health*) and Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Daniel G. Tenen, Associate Professor of Medicine (*Medical School*)  
Cox Terhorst, Professor of Medicine (*Medical School*)  
Stefan Thor, Assistant Professor of Neurobiology (*Medical School*)  
Stuart A. Tobet, Assistant Professor of Neuroscience (*Medical School*)  
Li-Huei Tsai, Assistant Professor of Pathology (*Medical School*)  
Sander Van Den Heuvel, Assistant Professor of Medicine (*Medical School*)  
Richard A. Van Etten, Associate Professor of Genetics (*Medical School*)  
David L. Van Vactor, Assistant Professor of Cell Biology (*Medical School*)  
Ulrich H. Von Andrian-Werburg, 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*)  
Joseph Wagstaff, Cross-listed: Other Faculty (*Medical School*)  
W. Allan Walker, Conrad Taff Professor of Nutrition and Pediatrics (*Medical School*) and Professor in the Department of Nutrition (*Public Health*)  
Christopher T. Walsh, Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)  
Christopher A. Walsh, Associate Professor of Neurology (*Medical School*)  
Gerald L. Waneck, Assistant Professor of Surgery (*Medical School*)  
Frederick C. Wang, Associate Professor of Medicine (*Medical School*)  
Ning Wang, Assistant Professor of Physiology and Cell Biology (*Public Health*)  
David T. Weaver, Associate Professor of Microbiology and Molecular Genetics (*Medical School*)  
Howard L. Weiner, Robert L. Kroc Professor of Neurology (*Medical School*)  
Charles J. Weitz, Associate Professor of Neurobiology (*Medical School*)  
Peter Fahey Weller, Cross-listed: Other Faculty (*Medical School*)  
Marianne Wessling-Resnick, Associate Professor of Nutrition (*Public Health*)  
Morris F. White, Associate Professor of Biochemistry (*Medical School*)  
Malcolm Whitman, Associate Professor of Cell Biology (*Medical School*)  
Louise E. Wilkins-Haug, Assistant Professor of Obstetrics, Gynecology, and Reproductive Biology (*Medical School*)  
Walter C. Willett, Professor of Medicine (*Medical School*) and Frederick John Stare Professor of Epidemiology and Nutrition (*Public Health*)  
Thomas H. Wilson, Professor of Cell Biology (*Medical School*)  
Fred Winston, Professor of Genetics (*Medical School*)  
Chao-Ting Wu, Assistant Professor of Genetics (*Medical School*)  
Kai Wucherpfennig (*Medical School*)  
Bruce Yankner, Associate Professor of Neurology (*Medical School*)  
Gary I. Yellen, Professor of Neurobiology (*Medical School*)  
Anne B. Young, Julieanne Dorn Professor of Neurology (*Medical School*)  
Hagop Youssoufian, Assistant Professor of Medicine (*Medical School*)  
Junying Yuan, Associate Professor of Cell Biology (*Medical School*)  
Edmund J. Yunis, Professor of Pathology (*Medical School*)  
Bruce R. Zetter, Professor of Surgery (*Medical School*)  
Leonard I. Zon, Associate Professor of Pediatrics (*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, physiology, genetics, immunology, microbiology and molecular genetics, neurosciences, pathology, 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.



For other courses in biological sciences, see listings of the Department of Cellular and Developmental Biology, the Department of Biochemistry and Molecular Biology, and the Committee on Biophysics.

### ***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: Cell Biology, Biological Chemistry and Molecular Pharmacology (BCMP), Microbiology and Molecular Genetics, Pathology, and Genetics. In addition, selected faculty located within area hospitals and institutions are members of BBS.

#### ***Graduate Courses of Reading and Research***

##### **\*BBS 300. BBS Seminar**

Catalog Number: 8771

*Clifford J. Tabin (Medical School) 2430 (fall term only), Patricia A. D'Amore (Medical School) 1168 (fall term only), and Robert E. Kingston (Medical School) 1153 (fall term only)*

This seminar is designed to help students learn presentation skills. Each student in their fourth year will be required to give a 20 minute talk to other fourth year students and selected faculty. The talk will be based upon the research in the student's thesis lab (ie. a "lab" talk, not necessarily the student's own research.) The course faculty will help in the preparation of the talk and will give feedback following the talk. Students must register for this course by their fifth year.

##### **\*BBS 333r (formerly Medical Sciences 333r). Introduction to Research in Biological and Biomedical Sciences**

Catalog Number: 1206

*Constance L. Cepko (Medical School) 1150*

##### **\*BBS 380 (formerly Medical Sciences 380). Reading and Research in Biological and Biomedical Sciences**

Catalog Number: 0349

*Constance L. Cepko (Medical School) 1150*

### ***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

*Stephen Buratowski (Medical School), David E. Fisher (Medical School) and associates*  
*Half course (fall term). M., W., F., 10:30–12.*

An advanced treatment of the Central Dogma of molecular biology. The course will consider the molecular basis of genetic information transfer from DNA to RNA to protein, using current examples from eukaryotic and prokaryotic systems. Topics include DNA and chromatin structure, replication, DNA repair, genome stability and plasticity, transcription, post-transcriptional RNA processing, translation, and post-translational regulation. Lectures and discussion sessions will emphasize experimental techniques and primary literature readings.

*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

*Thomas E. Ellenberger (Medical School), Stephen C. Blacklow (Medical School), Stephen C. Harrison, and Christopher T. Walsh (Medical School)**Half course (spring term). Tu., Th., 9:30–11, W., 4:30–6. EXAM GROUP: 9, 11, 12*

Advanced coverage of contemporary topics in protein biochemistry with emphasis on the interrelated roles of protein structure, catalytic activity, and macromolecular interactions in biological processes. Topics include the analysis of protein sequence information and three dimensional structures of proteins, protein folding and conformational changes that control biological activity, intracellular targeting of proteins, the regulated assembly and disassembly of macromolecular complexes, the structural basis for enzymatic catalysis, fidelity and proofreading mechanisms, energy transduction, and the generation of force by proteins.

*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, dates to be announced.*

Intensive introduction to pharmacology, emphasizing basic mechanisms of drug action and principles of drug-receptor interactions, pharmacokinetics, and drug metabolism. Drug classes illustrated using prototypic drugs. Examples drawn from autonomic nervous system, cardiovascular, and central nervous system pharmacology; autacoids and chemotherapeutic agents also considered.

*Note:* Offered jointly with the Medical School as IN 705.0. Ten hours of lecture, 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), Christopher T. Walsh (Medical School), and Morris F. White (Medical School)*  
*Half course (spring term). Tu., Th., 3:30–5:30. EXAM GROUP: 17, 18*

Explores how molecular biology, structural biology, and modern enzymology have revolutionized understanding of selective drug action and development of new therapies. Analyzes molecular underpinnings of basic pharmacological principles. Examples drawn primarily from pathways central to molecular biology such as signal transduction, DNA replication, and gene expression with application to diseases including cancer, diabetes, and AIDS.

*Note:* Offered jointly with the Medical School as BP 715.0. Intended primarily for graduate students.

### **BCMP 210. Theory and Practice of Techniques in Molecular Biology**

Catalog Number: 1230

*Welcome W. Bender (Medical School), Donald K. Morisato (Medical School), and Stanley Tabor (Medical School)*

*Half course (fall term). M., 2–4, W., 2–5, F., 2–4.*

Reviews the principles of common lab techniques, and discusses recent innovations. A variety of procedures will be tested experimentally. Topics include separation techniques for nucleic acids and proteins, polymerase reactions, nucleic acid reassociations, and biological database searching and analysis. Course format includes lecture, lab experiments, and discussions.

*Note:* Offered jointly with the Medical School as BP 725.0.

*Prerequisite:* Exposure to molecular techniques will be assumed.

### **\*BCMP 213. Behavioral Pharmacology**

Catalog Number: 4782 Enrollment: Limited to 15

*Jack Bergman (Medical School), William H. Morse (Medical School) and associates*

*Half course (spring term). Tu., Th., 2–4.*

Introduction to the experimental study of behavior with applications to pharmacology and physiology. Emphasis on the effects of drugs on behavior and physiological changes associated with behavior. Effects of barbiturates, antipsychotic and antianxiety drugs, and psychomotor stimulants on behavior; tolerance, addiction, withdrawal, and self-administration of drugs; the behavioral modulation of physiological functions.

*Note:* Offered jointly with the Medical School as BP 719.0.

### **[\*BCMP 220. Biochemical Events in Human Disease ]**

Catalog Number: 8583

*John A. Badwey (Medical School), Donald S. O'Hara (Medical School) and members of the Faculty*

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

Survey of biochemical concepts and their relationship to human biology and disease. Topics: inborn errors of metabolism, intermediary metabolism of carbohydrates, lipids, amino acids, and nucleic acids, enzymology, metabolic regulation, steroid biosynthesis and actions, drug design, bioactive lipids, and inflammation.

*Note:* Expected to be given in 2000–01. Offered jointly with the Medical School as BP 721.0.



**BCMP 225. Biochemistry of Muscle**

Catalog Number: 3442 Enrollment: Maximum 10.

*John Gergely (Medical School)*

*Half course (spring term). Tu., Th., 3–5.*

Topics: properties and interactions of myofibrillar proteins; molecular architecture of contractile apparatus; regulatory proteins; role of calcium ions in excitation-contraction coupling; regulation of intracellular calcium ion concentration; models of muscle contraction and their relation to molecular properties of myofibrillar proteins. Applications to diseases of skeletal and cardiac muscles.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as BP 703.0.

*Prerequisite:* Introductory biochemistry.

**[BCMP 228. Macromolecular Crystallography and NMR]**

Catalog Number: 3969

*Gerhard Wagner (Medical School) and James M. Hogle (Medical School)*

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

Theory and practice of modern methods of structural analysis: model building of proteins and DNA, growing protein crystals, making a heavy atom derivative, taking X-ray precession photographs, solving a protein structure; setup of 2D NMR experiments, spectral assignment distance geometry, and other modeling programs on graphics workstations.

*Note:* Expected to be given in 2000–01. Contact instructor at 432-3213. Offered in alternate years. Offered jointly with the Medical School as BP 722.0.

***Graduate Courses of Reading and Research***

**\*BCMP 300. Enzyme Mechanisms**

Catalog Number: 1867

*Christopher T. Walsh (Medical School) 2036*

**\*BCMP 304. Selenoproteins and Translational Control of Gene Expression**

Catalog Number: 2268

*Marla J. Berry (Medical School) 2061*

**\*BCMP 305. Mechanisms of Visual Transduction and Adaptation and Biochemical Mechanisms of Drug Action**

Catalog Number: 0834

*Robert R. Rando (Medical School) 4125*

**\*BCMP 307. Hormone Receptor Interaction in Bone Biology**

Catalog Number: 3484

*Michael Rosenblatt (Medical School) 1138*

**\*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 (formerly \*Cell Biology 356). Molecular and Cellular Mechanisms of Insulin Action**

Catalog Number: 4299

*Morris F. White (Medical School) 3158*

**\*BCMP 311 (formerly Microbiology 337). Structure of Viruses, Viral Proteins, Receptors, Transcription Factors**

Catalog Number: 3623

*Stephen C. Harrison 3597*

**\*BCMP 312. Molecular Mechanisms of DNA Damage and Repair and Mutagenesis**

Catalog Number: 0828

*Irving H. Goldberg (Medical School) 3677*

**\*BCMP 315 (formerly \*Cell Biology 357). Growth Factor Structure and Biological Activity**

Catalog Number: 6034

*Michael Klagsbrun (Medical School) 3167*

**\*BCMP 316. Design and Synthesis of Novel Folic Acid Antagonists and Nucleotide Analogs as Anticancer and Antiviral Agents**

Catalog Number: 0857

*Andre Rosowsky (Medical School) 3527*

**\*BCMP 318. Thyroid Hormone Activation, Inactivation, and Action**

Catalog Number: 2636

*P. Reed Larsen (Medical School) 3171*

**\*BCMP 319. Molecular Adaptation to Hypoxia**

Catalog Number: 0722

*H. Franklin Bunn (Medical School) 3164*

**\*BCMP 320. Cell Biology of Eukaryotes**

Catalog Number: 0265

*Pamela A. Silver (Medical School) 1595*

**\*BCMP 321. Structure and Function of DNA Replication and Repair Proteins**

Catalog Number: 7298

*Thomas E. Ellenberger (Medical School) 1643*

**\*BCMP 323. Biochemistry of Muscle Contraction**

Catalog Number: 2794

*John Gergely (Medical School) 2477*



**\*BCMP 325. Genomic Instability and Cancer Susceptibility**

Catalog Number: 4110

*Alan D. D'Andrea (Medical School) 3532*

**\*BCMP 326. Molecular Mechanisms of Drosophila Development**

Catalog Number: 1248

*Donald K. Morisato (Medical School) 1803*

**\*BCMP 329. Structure Biology of Cytoplasmic Signal Transduction**

Catalog Number: 5005

*Michael J. Eck (Medical School) 1739*

**\*BCMP 332. Structural Neurology**

Catalog Number: 0276

*Peter T. Lansbury (Medical School) 2115*

**\*BCMP 333. Regulation of Biosynthetic Processes**

Catalog Number: 4876

*Henry P. Paulus (Medical School) 1205*

**\*BCMP 334. Signal Transduction Across the Plasma Membrane**

Catalog Number: 6616

*Eva J. Neer (Medical School) 2214*

**\*BCMP 335. Biochemical and Genetic Analysis of Eukaryotic Gene Expression**

Catalog Number: 8052

*Stephen Buratowski (Medical School) 1790*

**\*BCMP 336. Structure, Function, and Assembly of Glycoprotein Components of Biomembranes**

Catalog Number: 1726

*Robert G. Spiro (Medical School) 2493*

**\*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 341. Molecular Pharmacology of Membrane Acting Drugs**

Catalog Number: 0837

*Keith W. Miller (Medical School) 4124*



**\*BCMP 342. Signal Transduction in Eukaryotic Cells**

Catalog Number: 4557

*Haruo Saito (Medical School) 2028*

**\*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 346. Lipid Mediators in Cell Signalling**

Catalog Number: 8258

*Charles N. Serhan (Medical School) 3163*

**\*BCMP 347. Structural Analysis of Viruses and Receptors**

Catalog Number: 5105

*Thilo Stehle 4990*

**\*BCMP 351. Molecular and Cellular Endocrinology**

Catalog Number: 0208

*Armen H. Tashjian, Jr. 2071*

**\*BCMP 356. Solution Structures of Proteins by NMR Spectroscopy**

Catalog Number: 8093

*Gerhard Wagner (Medical School) 2626*

**\*BCMP 357. Problems in Nucleic Acid and Nucleic Acid/Protein Crystallography**

Catalog Number: 6132

*Christin A. Frederick (Medical School) 2614*

**\*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 370. Advanced Topics in Biological Chemistry and Molecular Pharmacology**

Catalog Number: 0482

*Donald K. Morisato (Medical School) 1803*

A series of reading and discussion seminars, each running for a half semester (7 weeks). Two seminars, which can be taken in different semesters, are required for credit.

*Prerequisite:* Dependent on seminar.

**\*Pathology 355. DNA Replication in Normal and Cancer Cells**

Catalog Number: 7108

*Anindya Dutta (Medical School) 2023*

***Cross-Listed Courses***

**[Biophysics 101. Genomics and Computational Biology](#)**

***Cell Biology***

***Primarily for Graduates***

**[Cell Biology 201. Molecular Biology of the Cell](#)**

Catalog Number: 1044

*Tom Rapoport (Medical School), Marc W. Kirschner (Medical School), and Timothy J. Mitchison (Medical School)*

*Half course (spring term). M., W., at 9:30; plus sections F. at 9:30. EXAM GROUP: 3, 4*

Current concepts in Cell Biology and Biochemistry, with emphasis on experimental approaches. This course is taught as an integrated set of lectures, and has a weekly section meeting. Topics include cellular architecture, the molecular basis of cellular compartmentalization, protein trafficking, protein degradation, cytoskeleton, molecular motors, cell division cycle, signal transduction, and the cellular/biochemical basis of diseases. The course will also cover various methods, such as protein purification, sequencing, analysis of protein-protein interactions, and others.

*Prerequisite:* Basic knowledge in biochemistry and genetics.

**[Cell Biology 206. Physiology of Normal and Transformed Cells ]**

Catalog Number: 4804 Enrollment: Minimum of 4.

*Claude P. Lechene (Medical School)*

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

Cellular homeostasis, (Na<sup>+</sup>,K<sup>+</sup>)-pump, intracellular pH signal transduction through integrins,



membrane events and cellular growth and division. Discussion of altered regulation of membrane events by specific oncoproteins.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as CB 703.0.

### **Cell Biology 207. Developmental Biology: Molecular Mechanisms of Vertebrate Development**

Catalog Number: 2044 Enrollment: Limited to 25

*Mark Mercola (Medical School), John G. Flanagan (Medical School), Andrew B. Lassar (Medical School), Thomas M. Schultheiss (Medical School), Sergei Y. Sokol (Medical School), Clifford J. Tabin (Medical School), and Malcolm Whitman (Medical School)*

*Half course (spring term). Tu., Th., 2–4.*

Analysis of the developmental programs of frog, chick, and mouse embryos with emphasis on experimental strategies for understanding the responsible molecular mechanisms. The course discusses the formation of the basic body plan and the formation of selected organs. General mechanisms of patterning and morphogenesis will be emphasized. Topics include developmental anatomy of early embryos, primary axis formation and regional specification, formation of the nervous system and eye development, establishment of cell fate, homeotic genes and the control of pattern, cell migration and cell-cell signalling, muscle, heart, kidney and limb development. Course includes lectures and conferences. A research proposal will be required in lieu of exams.

*Note:* Offered jointly with the Medical School as CB 710.0.

*Prerequisite:* Microbiology 201 or equivalent.

### **Cell Biology 211a (formerly Cell Biology 211). 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., 12:30–2.*

Examines the basic mechanisms of cell growth and the processes that lead to tumorigenesis. Emphasizes the molecular basis of growth control and includes studies of growth factors, membrane receptors, intracellular signal transduction, cell cycle control, apoptosis, transcription, and DNA repair. Focuses on oncogenes, tumor suppressors, and how oncogenic viruses regulate cell growth.

*Note:* Expected to be omitted in 2000–01. 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.*

The course is divided into 3 instruction blocks. The 1st block covers history, chemistry, and biology of the major growth factor families and their receptors, including hematopoietic growth factors. The 2nd block teaches basic principles in growth factor receptor activation and signal transduction. The Ras/Raf/MAP kinase cascade and the JAK/STAT signaling pathways are used as teaching vehicles. The 3rd instruction block is entitled “Variations on the Themes and a Look



Ahead.” The content of this block will change as the field unfolds. Most recently (Fall ’96), this block featured one lecture “snapshots” of TGF-beta receptor signaling, lipid signaling, Eph family receptors and their ligands, tyrosine phosphatases and seven membrane spanners. For Fall ’98, we may add Wnt and Patched signaling pathways to this block.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as CB 705.0.

*Prerequisite:* BCMP 201 and Cell Biology 201, or equivalent.

### **[Cell Biology 212. Advanced Cancer Cell Biology]**

Catalog Number: 1951

*Lan Bo Chen (Medical School) and Arthur M. Mercurio (Medical School)*

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

Studies carcinogenesis, tumor cell biology, tumor virology, and cancer pharmacology; nature of cancer at molecular level. Topics: viral and chemical carcinogenesis, genetics of cancer and transformed state, nature of virus coded transformation functions, exogenous control of cell growth, cell surface of normal and transformed cells, cell structure and motility, differences between benign and malignant tumors, metastasis, and mutation and differentiation as models for cancer.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as CB 716.0.

### **Cell Biology 213. Biological Machines**

Catalog Number: 8427

*Robin Reed (Medical School), Thomas E. Ellenberger (Medical School), Daniel Finley (Medical School), Tomas Kirchhausen (Medical School), Danesh Moazed (Medical School), Tom Rapoport (Medical School), Bruce J. Schnapp (Medical School), and Gary I. Yellen (Medical School)*

*Half course (fall term). M., W., F., 2–4. EXAM GROUP: 7, 8*

Most major cellular processes are carried out by complex macromolecular machines. The course will investigate the basic principles of these machines by exploring specific examples, including the proteasome, chaperones, nucleocytoplasmic transport machinery, the spliceosome, protein translocation machinery, ion channels, DNA polymerases and topoisomerases, molecular motors and chromatin remodeling machinery. We will examine the structure and assembly of these machines, the mechanisms they use to achieve fidelity, how and why energy is used, the role of conformational changes, and reasons for the extreme complexity of many of the machines. The format will be essentially a workshop, with frequent presentations by students. The material will be focused on the current literature, with an emphasis on experimental design and proposing new experiments.

*Note:* Course web site is <http://cbweb.med.harvard.edu/biomachine/>. The BioInformation Systems Manager will be Scott Storms, PhD.

*Prerequisite:* Undergraduate level biochemistry, molecular biology, cell biology.

### ***Graduate Courses of Reading and Research***

#### **\*Cell Biology 300. Advanced Topics in Cell, Molecular, and Developmental Biology**

Catalog Number: 5825



*Alfred L. Goldberg (Medical School) 2827 and members of the Faculty  
Half course (fall term; repeated spring term). Hours to be arranged.*

Topics cover areas of interest in cell, molecular, and developmental biology such as spatial organization of cytoplasm, apoptosis, membrane trafficking, and tumor progression and metastasis. Different topics are covered each term.

*Note:* A series of reading and discussion seminars, each running for a half semester (seven weeks). Two seminars, which can be taken in different semesters, are required for credit.

*Prerequisite:* Dependent on seminar.

**\*Cell Biology 304. Regulation of the Cell Cycle**

Catalog Number: 0414

*Joan V. Ruderman (Medical School) 2622*

**\*Cell Biology 305. Developmental Biology**

Catalog Number: 3314

*Elizabeth D. Hay (Medical School) 1011*

**\*Cell Biology 306. Permeability and Biological Transport**

Catalog Number: 0416

*Thomas H. Wilson (Medical School) 2137*

**\*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. Comparative Oogenesis and Fertilization**

Catalog Number: 7403

*Everett Anderson (Medical School) 3802*

**\*Cell Biology 313. The Structure of the Nucleus and the Dynamics of Nuclear Transport**

Catalog Number: 3151

*Frank D. McKeon (Medical School) 1990*

**\*Cell Biology 314. Molecular Biology of Extracellular Matrix**

Catalog Number: 5077

*Bjørn R. Olsen (Medical School) 1164*



**\*Cell Biology 316. Mechanism and Regulation of Intracellular Protein Turnover**

Catalog Number: 1017

*Alfred L. Goldberg (Medical School) 2827*

**\*Cell Biology 317. Mechanisms of Programmed Cell Death**

Catalog Number: 2270

*Junyong 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 319. Cell Polarity and Morphogenesis**

Catalog Number: 2986

*Rong Li (Medical School) 2106*

**\*Cell Biology 320. Mechanisms of Intracellular Transport**

Catalog Number: 4285

*Bruce J. Schnapp (Medical School) 2948*

**\*Cell Biology 321. Neuronal Pathfinding and Guidance**

Catalog Number: 4841

*David L. Van Vactor (Medical School) 2089*

**\*Cell Biology 322. Endothelial Cell Proliferation in Angiogenic Diseases**

Catalog Number: 5980

*Joyce E. Bischoff (Medical School) 1448*

**\*Cell Biology 323. Biology of Membranes and Intercellular Junctions**

Catalog Number: 2651

*Daniel A. Goodenough (Medical School) 4077 and Marianne Wessling-Resnick (Public Health) 1315*

**\*Cell Biology 325 (formerly \*Microbiology 308). RNA Localization in Neurons and Determination of Neuronal Fates**

Catalog Number: 4485

*Kenneth S. Kosik (Medical School) 1814*

**\*Cell Biology 326. Signal Transduction During Early Development**

Catalog Number: 1872

*Malcolm Whitman (Medical School) 3267*

**\*Cell Biology 327. Gametogenesis and the Preimplantation Embryo**

Catalog Number: 5221

*John D. Biggers (Medical School) 3805*



**\*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 331. Growth Factors in Vertebrate Development**

Catalog Number: 5258

*Mark Mercola (Medical School) 2947*

**\*Cell Biology 334 (formerly Microbiology 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 337. Keratinocyte Growth and Differentiation**

Catalog Number: 2197

*Howard Green (Medical School) 7318*

**\*Cell Biology 338. Developmental Biology of Human Congenital Anomalies**

Catalog Number: 7867

*Patricia K. Donahoe (Medical School) 3252*

**\*Cell Biology 339. Cell Morphogenesis and Regulation**

Catalog Number: 3898

*Marc W. Kirschner (Medical School) 1078*

**\*Cell Biology 343 (formerly \*BCMP 346). 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 Throsine Kinases**

Catalog Number: 1591

*Andrius Kazlauskas (Medical School) 2088*

**\*Cell Biology 347 (formerly \*Cell Biology 308). Cellular and Molecular Aspects of Insulin Action**

Catalog Number: 1494

*C. Ronald Kahn (Medical School) 2019*

**\*Cell Biology 348 (formerly \*Cell Biology 310). Structure, Function, and Development of Membrane Skeletons**

Catalog Number: 6638

*Samuel E. Lux IV (Medical School) 7403*

**\*Cell Biology 349. Chromosome Structure and Gene Silencing in Yeast**

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 Anne Raftery 8686*

**\*Cell Biology 354. Molecular Mechanisms of Intracellular Transport**

Catalog Number: 7605

*Victor Wee Hsu (Medical School) 2606*

**\*Cell Biology 355 (formerly \*Cell Biology 321). Cell Interactions in Organ Morphogenesis**

Catalog Number: 1662

*Merton Bernfield (Medical School) 1156*

**\*Cell Biology 356. Cell Growth Regulation, Telomere Maintenance and Human Diseases**

Catalog Number: 3718

*Kun Ping Lu (Medical School) 2607*

**\*Cell Biology 357. Signal Transduction and Animal Cell Movement**

Catalog Number: 5835

*Thomas P. Stossel (Medical School) 7734*



**\*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 J. Frank (Medical School) (fall term)*

**\*Cell Biology 369 (formerly \*Cell Biology 354). Regulation of Cytoskeletal Structure**

Catalog Number: 7415

*Paul A. Janmey (Medical School) 2865*

**\*Cell Biology 371. Biogenesis of Epithelial Cell Polarity with a Focus on Cell Substratum Interactions and Downstream Signaling Pathways**

Catalog Number: 4980

*Karl S. Matlin (Medical School) 1406*

**\*Cell Biology 372. Cytoskeletal Dynamics**

Catalog Number: 5032

*Timothy J. Mitchison (Medical School) 3713*

**\*Cell Biology 373 (formerly \*Cell Biology 373). Molecular Genetics of Cell Interaction in Development**

Catalog Number: 8133

*Artauanis-Tsenyanas Spiros (Medical School) 2609*

**\*Cell Biology 374. The Molecular Causes of Aging**

Catalog Number: 6096

*David Andrew Sinclair (Medical School) 2610*

***Genetics***

***Cross-Listed Courses***

***Primarily for Graduates***

**[\\*Genetics 200. Fundamentals of Genetics, Embryology, and Reproduction](#)**

Catalog Number: 4265 Enrollment: Limited to 4 Division of Medical Sciences students.

*Philip Leder (Medical School), Daniel D. Federman (Medical School), Bruce R. Korf (Medical School), and Clifford J. Tabin (Medical School)*

*Half course (spring term). M. through F., 8:30–12:30 a.m.*

Focuses on fundamental aspects of human genetics, reproduction, early development, and morphogenesis. Both classical and molecular genetics are addressed, with particular application to human biology and medicine. Laws that govern inheritance and variation among individuals and populations considered with special attention to the molecular aspects of inheritance,



mutation, and gene control.

*Note:* Call 432-1315 to register. 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

*William F. Dietrich (Medical School), Iswar K. Hariharan (Medical School), and Anne C. Hart (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. To illustrate the principles of genetics, we will draw on examples from various systems, such as *Drosophila*, *C. Elegans*, zebrafish, mouse, human and bacteria. In addition, considerable time will be spent discussing important practical aspects and constraints of genetic analysis in various organisms. Section meetings will focus on critical discussion of papers from the literature and on discussion of problem sets.

*Note:* Intended for first-year graduate students. Offered jointly with the Medical School as GN 701.0.

### **Genetics 212. Biology of Yeasts: Cell Proliferation and Differentiation**

Catalog Number: 3476

*Elaine A. Elion (Medical School)*

*Half course (spring term). W., 1:30–4:30.*

This course will consider topics such as cell cycle control, determination of cell identity and cell morphology from the perspective of studies using yeasts as the experimental organism. We will concentrate on examining how scientific problems can be studied in these simple eukaryotes using genetic methods. Primary research papers will be discussed and critically evaluated. The two parts of this course can be taken together as a half course, or individually as quarter courses under Genetics 300. The first quarter will consider determination of cell identity and control of cell differentiation; the second quarter will consider cell cycle control and morphogenesis.

*Note:* Also offered under Cell Biology 300; offered jointly with the Medical School as GN 722.0.

*Prerequisite:* Genetics 201 or equivalent. May be taken concurrently.

### **[Genetics 214. Biology of the Visual System]**

Catalog Number: 5537 Enrollment: Minimum 5; maximum 20.

*Constance L. Cepko (Medical School), Richard T. Born (Medical School), John E. Dowling, Thaddeus P. Dryja, Jr. (Medical School), John G. Flanagan (Medical School), Ilene K. Gipson (Medical School), Francesca Pignoni (Medical School), Robert R. Rando (Medical School), and Elio Raviola (Medical School)*

*Half course (fall term). M., W., 3–5.*

An introduction to the visual system focusing on the vertebrate visual system, primarily on the retina, but with some coverage of other visual centers. Covers aspects of anatomy, physiology, biochemistry, development, and molecular genetics.

*Note:* Expected to be given in 2000–01. Given in alternate years. An introductory course in



neurobiology is suggested, but not required. Offered jointly with the Medical School as GN 714.0.

### **Genetics 216. Advanced Topics in Gene Expression**

Catalog Number: 2244

*Robert E. Kingston (Medical School) and Fred Winston (Medical School)*

*Half course (spring term). Tu., 1–4.*

This course will cover both biochemical and genetic studies in regulatory mechanisms. We will discuss a small number of topics in depth, using the primary literature as the main source of information. Each area of research covered will be analyzed in terms of the conceptual basis for its study, its advancement and evolution, and the experimental approaches that were used. Topics will range from prokaryotic transcription to eukaryotic development.

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Medical School as GN 703.0.

*Prerequisite:* BCMP 200 and Genetics 201.

### **Genetics 218. Genotype to Phenotype: Epigenetic and Other Forms of Gene Regulation**

Catalog Number: 2252

*Chao-Ting Wu (Medical School), William C. Forrester (Medical School), Jeannie T. Lee (Medical School), and James Morris (Medical School)*

*Half course (spring term). Th., 1–4.*

There is increasing interest in apparently unusual forms of gene regulation, many of which have been described as epigenetic. We will explore a selection of these phenomena, including X-inactivation, transvection, methylation, parental imprinting, RIP, MIP, quelling, co-suppression, and paramutation. Examples will be taken from prokaryotes, ciliates, fungi, plants, insects, and mammals. While the underlying bases for these processes may seem diverse, we will aim to identify unifying themes. The course format will entail paper discussions, lectures, and student presentations.

*Note:* Offered jointly with the Medical School asd GN XXX.

*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

*Nadia Rosenthal (Medical School) and David Hausman (Medical School) and associates*

*Half course (fall term). M., F., 9:30–12.*

The focus of this course is on the scientific, clinical, and ethical aspects of modern human genetics. Basic science lectures covering genetic approaches and molecular underpinnings of inherited diseases are integrated with patient presentations and discussion. An outside project puts each student in direct contact with clinicians, researchers, and patients dealing in a particular disorder. During the first portion of the semester fundamental principles of human genetics are presented to the class. During these early sessions, students with stronger backgrounds meet in alternative sections with leading researchers to discuss related advanced topics based on reading of primary literature.

*Note:* Offered jointly with the Medical School as HT 160.



**[Genetics 223. Patterning Mechanisms in Development]**

Catalog Number: 3866

*Jeremy Green (Medical School), Elizabeth A. Perkins (Medical School), Norbert Perrimon (Medical School), and Sergei Y. Sokol (Medical School)*

*Half course (spring term). W., 10–12.*

Current questions of developmental biology such as origins of polarity and long-range patterning will be addressed via selected articles. Emphasis will be on concepts in recent and classical embryology, comparing *Drosophila*, sea urchins, nematodes and vertebrates (*Xenopus*, zebrafish, chicken and mouse) to illustrate the unity and diversity of developmental mechanisms.

*Note:* Expected to be given in 2000–01. Offered jointly with the Medical School as GN\_\_\_\_\_

*Prerequisite:* Introductory Molecular Biology or Introductory Developmental Biology.

***Graduate Courses of Reading and Research***

**\*Genetics 300. Advanced Topics in Cell, Molecular, and Developmental Biology**

Catalog Number: 1037

*Susan M. Dymecki (Medical School) 1736*

Topics cover areas of interest in cell, molecular, and developmental biology such as molecular genetics of learning and memory, conservation of embryological mechanisms, molecular organogenesis, and biology of yeasts. Different topics are covered each term.

*Note:* A series of reading and discussion seminars, each running for a half semester (seven weeks). Two seminars, which can be taken in different semesters, are required for credit.

*Prerequisite:* Dependent on seminar.

**\*Genetics 301. Research in Molecular Genetics and Molecular Oncology**

Catalog Number: 4780

*Philip Leder (Medical School) 7527*

**\*Genetics 302. Molecular Biology of Plants: Control of Eukaryotic Gene Expression**

Catalog Number: 3650

*Howard M. Goodman (Medical School) 7526*

**\*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 Edry Seidman (Medical School) 3013 (spring term only)*

**\*Genetics 306. Inherited Human Disorders**

Catalog Number: 7324

*Jonathan G. Seidman (Medical School) 7529*



**\*Genetics 307. Hormonal Control of Gene Expression in Higher Organisms**

Catalog Number: 2938

*David D. Moore (Medical School) 7876*

**\*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 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 317. Targeted Mutagenesis in Mice to Study Molecular Control of Development**

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 320. Contribution of Placental Karyotype Abnormalities to Adverse Pregnancy Outcomes**



Catalog Number: 2989

*Louise E. Wilkins-Haug (Medical School) 2097*

**\*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 324. Transformation and Leukemogenesis by *abl* Oncogenes; Hematopoiesis**

Catalog Number: 7286

*Richard A. Van Etten (Medical School) 3266*

**\*Genetics 327. Mammalian Cell Cycle Control**

Catalog Number: 1535

*Edward E. Harlow (Medical School) 2863*

**\*Genetics 328. Lymphocyte Differentiation, Recombination, and Nuclear Oncogenes**

Catalog Number: 2702

*Frederick W. Alt (Medical School) 3146*

**\*Genetics 330 (formerly \*BCMP 330). Critical Thinking and Research Proposal Writing**

Catalog Number: 0210 Enrollment: Open to all BBS students; others need approval of the instructor.

*Alan M. Michelson (Medical School) 2029 (fall term only) and members of the Faculty Half course (fall term; repeated spring term). Tutorials to be scheduled individually by each group.*

This course provides thorough coverage of the essential elements of research proposal writing. Through a series of written exercises and class discussions, students will learn how to choose an appropriate research subject, define specific scientific hypotheses to advance the understanding of the chosen topic, design a series of properly controlled experiments to investigate these questions, anticipate potential outcomes and technical pitfalls of the proposed experiments, and consider alternative interpretation of the predicted results. Emphasis will be placed on the organization of these concepts in a coherent, appropriately structured written format. Groups of approximately four students and two faculty instructors will meet for six tutorials during the course of the fall semester. Discussions will focus on the critical assessment of model research proposals and on the development of original proposals by individual students within the group. *Prerequisite:* Core course in genetics, cell biology, molecular biology, and biochemistry.



**\*Genetics 331. Cell Cycle Checkpoints**

Catalog Number: 2348

*Tamar L. Enoch (Medical School) 3521*

**\*Genetics 333. Molecular Biology of Neuronal Plasticity and Alzheimer's Disease**

Catalog Number: 6418

*Rachael L. Neve (Medical School) 3525*

**\*Genetics 335. Epigenetics, Chromatin, Gene Structure, and Evolution**

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 338. Molecular Biology of Neuroendocrine Systems**

Catalog Number: 6714

*William W. Chin (Medical School) 2613*

**\*Genetics 339 (formerly \*Cell Biology 340). Molecular Organ Development**

Catalog Number: 3779

*Mark C. Fishman (Medical School) 1170*

**\*Genetics 340. Iron Metabolism in Red Blood Cells**

Catalog Number: 2936

*Nancy Andrews (Medical School) 1589*

**\*Genetics 341. Anti-Tumor Immunity and Gene Transfer**

Catalog Number: 3599

*Glenn Dranoff (Medical School) 1821*

**\*Genetics 342. Genetic Analysis of Pattern Formation in the Vertebrate Embryo**

Catalog Number: 4785

*Wolfgang Driever (Medical School) 1948*

**\*Genetics 343. Axis Establishment in Early Vertebrate Embryogenesis**

Catalog Number: 5304

*Jeremy Green (Medical School) 1950*



**\*Genetics 344. Control of Gene Expression in Phagocytes and Injured Tissue**

Catalog Number: 5739

*Ellis J. Neufeld (Medical School) 1951*

**\*Genetics 345. Chromosomal Stability and Inherited Disorders**

Catalog Number: 4847

*Hagop Youssoufian (Medical School) 2104*

**\*Genetics 346. Molecular and Cell Biology of Serpins**

Catalog Number: 5323

*Gary A. Silverman (Medical School) 2086*

**\*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 349. Signal Transduction in Disease and Development**

Catalog Number: 0177

*Andre Bernardis (Medical School) 1824*

**\*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 352. Genetic and Molecular Approaches to Study Photoreceptor Cell Differentiation in the Drosophila Eye**

Catalog Number: 5055

*Iswar K. Hariharan (Medical School) 1796*

**\*Genetics 353. Molecular Definition of X-Chromosome Inactivation (Lyonization)**

Catalog Number: 9948

*William M. Strauss (Medical School) 5262*

*Half course (fall term). .*

**\*Genetics 355. Molecular Genetics of Human Neuromuscular Diseases**

Catalog Number: 9253

*Alan H. Beggs (Medical School) 1422*



**\*Genetics 356. Hematopoiesis and Signal Transduction in Drosophila**

Catalog Number: 4608

*Charles R. Dearolf (Medical School) 3251*

**\*Genetics 357. Search for Genes Causing Hereditary Diseases of the Retina**

Catalog Number: 9953

*Thaddeus P. Dryja, Jr. (Medical School) 2780*

**\*Genetics 358. Mammalian Embryonic Patterning**

Catalog Number: 8297

*Susan M. Dymecki (Medical School) 1736*

**\*Genetics 360. Genomic Imprinting and Gene Expression**

Catalog Number: 6684

*Marc E. Lalande (Medical School) 2503*

**\*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 M. 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 365. Genetic Imprinting and Human Disease**

Catalog Number: 0451

*Joseph Wagstaff (Medical School) 2634*

**\*Genetics 366. Molecular Genetic Approaches to Human Disease Mechanisms**

Catalog Number: 8153

*Mary 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 & Genetic Mechanisms Responsible for Muscle Differentiation During Embryonic Development**



Catalog Number: 7490  
*Alan M. Michelson (Medical School) 2029*  
*Half course (fall term).*

## ***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 200. Lymphocyte Development and the Generation of Diversity]**

Catalog Number: 2669  
*Shiv S. Pillai (Medical School), Frederick W. Alt (Medical School), Laurie H. Glimcher (Public Health), and Marjorie A. Oettinger (Medical School)*  
*Half course (spring term). F., 3–5:30.*

Topics discussed will include commitment to the lymphoid lineage, cell fate decisions in B and T cell development, the transcriptional regulation of lymphocyte development, the generation of TH1 and TH2 cells, and apoptotic death in the immune system. We will also examine the processes of VDJ recombination, isotype switching, and somatic mutation in mechanistic detail. The two parts of this course may be taken together as a half course, or individually as a quarter course which will be offered sequentially, one on DNA rearrangement and the other on lymphocyte development. The two parts of this course can also be taken together as a half course, or individually as a quarter course under Immunology 300.

*Note:* Expected to be given in 2000–01. Offered jointly with the Medical School as IM 700.0a. Given in alternate years.

*Prerequisite:* Genetics or Introductory Immunology course at the undergraduate or graduate level.

#### **\*Immunology 201. Principles of Immunology**

Catalog Number: 8337  
*Hidde Ploegh (Medical School), Frederick W. Alt (Medical School) and Diane Mathis (Medical School)*  
*Half course (fall term). Tu., Th., 1–3:30. EXAM GROUP: 15, 16, 17*

As a comprehensive core course in immunology, the topics include a broad but intensive examination of the cells and molecules of the immune system. Special attention is given to the experimental approaches that led to the general principles of immunology.

*Note:* Background in genetics and biochemistry is strongly recommended. Offered jointly with the Medical School as IM 702.0.

*Prerequisite:* This course is 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.

#### **[Immunology 205. Principles of Clinical Immunology]**

Catalog Number: 7604



*Roy J. Soberman (Medical School) and associates*  
*Half course (spring term). Hours to be arranged.*

Focuses on the molecular mechanism of immunologic diseases. A detailed examination of the current scientific literature and experimental approaches used to elucidate the mechanisms of these diseases is the subject of a combination of discussions and brief introductory lectures.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as IM 707.0.

*Prerequisite:* General immunology and a strong knowledge of biochemistry is suggested.

### **[Immunology 210. Immunogenetics of the MHC]**

Catalog Number: 3548 Enrollment: Minimum 8; maximum 15.

*David H. Sachs (Medical School), John J. Iacomini (Medical School), Christian A. LeGuern (Medical School), Megan Sykes (Medical School), and Gerald L. Waneck (Medical School)*  
*Half course (fall term). Hours to be arranged.*

Principles of classical and modern immunogenetics will be applied to an in-depth understanding of the Major Histocompatibility Complex. This course will be divided into two parts. Topics covered in the first half will include: evolution and polymorphism of the MHC; structure and function of class I and class II molecules; molecular genetics of class I and class II genes; antigen processing and presentation by MHC molecules; T-cell receptor-MHC interactions; accessory molecule-MHC interactions; and principles of allorecognition. Topics covered in the second half will include: transplantation antigens; transplantation tolerance; nonclassical MHC-like gene products; NK cell recognition of MHC; MHC-disease associations; bone marrow transplantation and HLA disease associations. The course will consist of lecture and discussions. Student participation will be encouraged via informal discussion and brief presentations of literature research on topical and/or controversial material.

*Note:* Expected to be given in 2000–01. Given in alternate years. Course meets at the Transplantation Biology Research Center, 9th Floor Conference Room, MGH East, Charlestown. Bus provided from HMS (Vanderbilt Hall) to MGH East. Bus leaves HMS at 2:30 p.m, returns from MGH East at 6:00 p.m. Offered jointly with the Medical School as IM 719.0.

*Prerequisite:* A basic course in Immunology or permission of the Course Director.

### **Immunology 217. Signal Transduction and Gene Regulation in the Immune System**

Catalog Number: 8205 Enrollment: Limited to 16

*Anjana Rao (Medical School), Hamid Band (Medical School), Michael Pazin (Medical School), and Brian Seed (Medical School)*  
*Half course (spring term). Th., 4–6:30.*

An advanced discussion of the mechanisms of signal transduction and inducible gene expression in cells of the immune system, with reference to non-immune cells types and systems. The two parts of this course are offered in sequence as individual quarter courses, the first on cell signalling and the second on transcriptional regulation. They may also be taken together as a semester-long half course. The topics to be discussed include: protein modules and protein-protein interactions; antigen and coreceptor stimulatory pathways; adhesion receptors and lymphocyte homing; negative signalling and tolerance; viral subversion of the immune response; calcium signalling; MAP kinase cascades; cell activation and cell death; cytokine signalling; NFκB; cooperative mechanism in gene transcription; histone acetylation and DNA methylation;



chromatin; locus control; and new approaches to the study of immune system function in vivo.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as IM 727.0.

*Prerequisite:* General biochemistry and immunology.

### **[\*Immunology 219. Immunodeficiencies and Infectious Diseases]**

Catalog Number: 1873

*Cox Terhorst (Medical School), Raif S. Geha (Medical School), Norman Letvin (Medical School), Fred S. Rosen (Medical School), and Michael Starnbach (Medical School)*

*Half course (spring term). M., 4–6:30.*

This course will be divided into two parts. The first quarter describes genetically determined human immunodeficiency patients, murine immunodeficiencies caused by homologous recombination or introduction of transgenes, and human and animal acquired immunodeficiencies. Examines impact of defects on lymphoid differentiation and on immune responses. Evaluates use of animal models for study and therapy of human disease states. The second quarter characterizes natural host immune responses that contain infectious agents. Interactions between HIV and cells of the immune system will be emphasized. The two parts of this course can be taken together as a half course, or individually as a quarter course under Immunology 300.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as IM 729.0.

*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. For Reading and Research with Department of Biology faculty, see Biology 301–399.

#### **\*Immunology 300. Advanced Topics in Immunology**

Catalog Number: 4739

*Hidde Ploegh (Medical School) 3143*

A series of reading and discussion seminars each running for a half semester (7 weeks). Two seminars, which can be taken in different semesters, are required for credit. Topics include the role of intracellular and transmembrane protein phosphates in signal transduction.

*Note:* Designed primarily for first- and second-year Immunology graduate students.

#### **\*Immunology 301. Immunology Seminar**

Catalog Number: 4971

*Hidde Ploegh (Medical School) 3143*

*Half course (fall term; repeated spring term). W., 3:30–6:15.*

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:* Designed primarily 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 304. Immediate Hypersensitive Reactions**

Catalog Number: 2259

*Kurt J. Bloch (Medical School) 3589*

**\*Immunology 305. Mechanism of Delayed Hypersensitivity**

Catalog Number: 2036

*John R. David (Public Health) 3592*

**\*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 310. Molecular and Developmental Immunology**

Catalog Number: 0217

*Leslie J. Berg 2573*

**\*Immunology 311. Defects in the Immune Response**

Catalog Number: 2738

*Fred S. Rosen (Medical School) 3595*

**\*Immunology 312. Mechanisms of T-cell Homing**

Catalog Number: 7968

*Christina Mershon Parker 3024 (spring term only)*

**\*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 Biology of Immune Cell Interactions**

Catalog Number: 0293

*Timothy A. Springer (Medical School) 6145*

**\*Immunology 320. Biology of Parasitism**

Catalog Number: 2870

*John R. David (Public Health) 3592*

**\*Immunology 321. Studies of T-Cell Activation**

Catalog Number: 5008

*Steven J. Burakoff (Medical School) 1348*

**\*Immunology 322. Cellular Bases of Immune Responses**

Catalog Number: 5324

*Abul K. Abbas (Medical School) 1349*

**\*Immunology 323. Research in Molecular Immunology**

Catalog Number: 3425

*Laurie H. Glimcher (Public Health) 1362*

**\*Immunology 325. Molecular Genetics of the Immune System**

Catalog Number: 3182

*Jonathan G. Seidman (Medical School) 7529*

**\*Immunology 326. Molecular and Cellular Human Immunobiology**

Catalog Number: 6719

*Ellis L. Reinherz (Medical School) 1408*

**\*Immunology 327. Chemical Cell Biology**

Catalog Number: 0824

*Stuart L. Schreiber 2166 (on leave 1999-00)*



**\*Immunology 328r (formerly Immunology 328). Introduction to Research**

Catalog Number: 5531

*Hidde Ploegh (Medical School) 3143*

**\*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 333. Immunopathogenesis of Viral Diseases**

Catalog Number: 2430

*Norman Letvin (Medical School) 2317*

**\*Immunology 334. Molecular Aspects of Immunoregulation and T-Cell Activation**

Catalog Number: 0492

*Christopher E. Rudd (Medical School) 2310*

**\*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 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 342. The Platelet Membrane Skeleton**

Catalog Number: 4154

*Thomas P. Stossel (Medical School) 7734*

**\*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 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 353. Topics in Reproductive Immunology**

Catalog Number: 7219

*Deborah J. Anderson (Medical School) 2611*

**\*Immunology 354. Topics in Transplantation Biology**

Catalog Number: 1459

*David H. Sachs (Medical School) 1075*

**\*Immunology 355. Biochemistry of MHC Class I- and MHC Class II-restricted Antigen Presentation**

Catalog Number: 7338

*Hidde Ploegh (Medical School) 3143*

**\*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 Steven Blumberg (Medical School) 2351*



**\*Immunology 358. Mechanisms of Gene Activation**

Catalog Number: 0965

*Santa Jeremy Ono (Medical School) 1088*

**\*Immunology 359. Discovery of New Pathways for Antigen Presentation of T Lymphocytes & of New Classes of Antigens that are Targeted by the Cell-mediated Immune Response**

Catalog Number: 9299

*Steven Porcelli (HMS) 2886*

*Half course (throughout the year). .*

**\*Immunology 360. Focus on the Hematopoietic Stem Cell in the Context of AIDS and Cancer**

Catalog Number: 8952

*David Thomas 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 David Luster (Medical School) 2654*

**\*Immunology 363. Regulation of Mast Cell Activation**

Catalog Number: 6813

*Howard R. Katz (Medical School) 2837*

**\*Immunology 364. T-Cell Development in Animal Models of Autoimmunity Disease**

Catalog Number: 0972

*Diane 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**

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. Apoptosis and Autoimmunity**

Catalog Number: 8986

*Paul J. Anderson (Medical School) 1947*

**\*Immunology 369. Mechanisms of Autoimmune Disease**

Catalog Number: 6787

*Vicki Rubin Kelley (Medical School) 2656*

**\*Immunology 371. Cellular and Molecular Mechanisms of Eosinophil in Allergic  
Flammation**

Catalog Number: 3716

*Peter Fahey 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; Immunology of Aging**

Catalog Number: 6317

*Edmund J. Yunis (Medical School) 6036*

**Immunology 374. Tumor Necrosis Factor-Alpha Gene Regulation in the  
Immunopathogenesis of AIDS and TB**

Catalog Number: 4558

*Anne Esther 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 399. Topics in Immunology**

Catalog Number: 2377

*Hidde Ploegh (Medical School) 3143*

***Medical Sciences***

***For Undergraduates and Graduates***

**\*Medical Sciences 215 (formerly Physiology 102). Integrated Human Physiology**

Catalog Number: 6359

*Bruce R. Zetter (Medical School) and members of the Faculty*

*Half course (fall term). M., through F., 8:30–12:00.*

This course describes the physiological mechanisms underlying the functions and interactions of the major systems of the human body, including the cardiovascular, renal, gastrointestinal, respiratory, endocrine, and reproductive systems. Particular emphasis is placed on the interactions between these systems and the overall integration of physiological functions. The course is geared primarily toward small group exercises including case discussions, problem sets, hospital based demonstrations, and laboratories.

*Note:* Offered jointly with the Medical School as IN 712.0. Course begins December 16, 1999 and concludes with an exam on February 9, 2000. 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.

***Primarily for Graduates***

**\*Medical Sciences 250ab. Human Functional Anatomy**

Catalog Number: 6946 Enrollment: Minimum 25; maximum 48.

*Farish A. Jenkins, Jr., Lee Gehrke (Medical School), and Samuel Kennedy (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 bioengineering are employed to promote analytical approaches to understanding the body's design. The embryology of major organ systems presented, together with certain references to phylogenetic development, as a basis for comprehending anatomical complexity. Correlation clinics stress both normal and abnormal functions of the body; guest lectures focus on current problems in organ system research.

*Note:* Open to qualified graduate students with permission of the instructors. Undergraduates are ordinarily not admitted to the course, although occasional exceptions may be made for those with a clearly defined interest in anatomy other than for pre-medical preparation. The course is not open to undergraduates planning a postgraduate career in medicine. Begins September 9, 1999. Students must register with instructors before first meeting of course (495-2499). Offered jointly with the Medical School as HT 010.

**Medical Sciences 265. Human Physiology: Classical and Contemporary Approaches**

Catalog Number: 4308

*Edmund A. Mroz, Jr. (Medical School)*



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

Explores function of the human organism, through experimental findings and underlying principles of classical physiology and of cellular and molecular biology. Covers the cardiovascular, respiratory, renal, and gastrointestinal systems, and energy metabolism. Discusses cellular and molecular basis of function while emphasizing integrated regulation via endocrine and autonomic nervous systems.

*Note:* Contact instructor: E-mail eam@epl.meei.harvard.ed Tel:573-4232

*Prerequisite:* Cell biology or biochemistry.

### ***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

*Catherine A. Lee (Medical School), R. John Collier (Medical School), Dan G. Fraenkel (Medical School), and Roberto G. Kolter (Medical School)*

*Half course (spring term). M., W., F., 9–10:30. EXAM GROUP: 2, 3*

A presentation of the molecular biology of microbes with emphasis on their interaction with host cells and organisms during pathogenesis. Topics include microbial genetics, structure, function, growth, replication, and development. The molecular aspects of infectious disease that will be examined include the genetic basis for virulence, immune response to microbial infections, and vaccine development.

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Medical School as MG 726.0.

#### **\*Microbiology 205. Mechanisms of Microbial Pathogenesis**

Catalog Number: 2480 Enrollment: Limited.

*Clyde S. Crumpacker II (Medical School) 1092, Harvey B. Simon (Medical School) 1098 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 208. Microbial and Molecular Genetics**

Catalog Number: 6499

*Jonathan R. Beckwith (Medical School)*

*Half course (fall term). Th., 1–4.*

An advanced seminar on several subjects from the following: gene regulation and expression in bacteria and bacteriophage, mutation and mutagenesis, transposons, the genetic code, genetic techniques, genetics of protein structure-function, genetics and membranes, social and political implications of progress in genetics.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as MG 706.0.

*Prerequisite:* Elementary biochemistry and Genetics 201 or equivalent preparation in genetics.

### **[Microbiology 209. Molecular Biology of Bacterial Development and Multicellularity]**

Catalog Number: 2698 Enrollment: Limited to 12.

*Roberto G. Kolter (Medical School) and associates*

*Half course (spring term). Tu., 1–4.*

The course provides an in depth coverage of bacterial systems displaying complex developmental processes and intercellular communication. A major aim of the course is to give students experience in researching topics and preparing formal lecture presentations. Lectures are accompanied by critical discussions of key papers. The specific topics vary from year to year and are selected based on the recent literature and student interest.

*Note:* Expected to be given in 2000–01. Given in alternate years. A minimum of 8 interested students are required to offer the course, open to graduate and advanced undergraduate students. Contact the instructor at 432-1776. Offered jointly with the Medical School as MG 727.0.

### **\*Microbiology 212. Bacterial Metabolism**

Catalog Number: 0598

*Dan G. Fraenkel (Medical School)*

*Half course (fall term). Th., 2–5.*

Pathways and energy metabolism. A discussion course based on papers.

### **Microbiology 213. Social Issues in Biology**

Catalog Number: 7905

*Jonathan R. Beckwith (Medical School), Roberto G. Kolter (Medical School), Lousi Guenin (Medical School) and Sheila S. Jasanoff (Kennedy School, Public Health)*

*Half course (spring term). Th., 1–4.*

A series of presentations and discussions on several of the following: philosophy, history, and sociology of science, science and journalism, science education, genetics and the law, fraud in science, social and ethical issues in genetic screening, genes and human behavior, gender issues in biology, and the Human Genome Project. A set of readings is prepared for each session that includes differing viewpoints on the topic at hand.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. 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 Enrollment: Limited to and required of all first-year BBS students.

*Bruce J. Mayer (Medical School), Stephen C. Blacklow (Medical School), Anindya Dutta (Medical School), Elaine A. Elion (Medical School), Grace Gill (Medical School), Xi He (Medical School), Andrius Kazlauskas (Medical School), Jeannie T. Lee (Medical School), Andrea I. McClatchey (Medical School), David Pellman (Medical School), Anjana Rao (Medical School), Piotr Sicinski (Medical School), and Sander Van Den Heuvel (Medical School)*  
*Half course (fall term). Tu., Th., 6–9 p.m.*

Critical analysis of original research articles in an intensive small group discussion format. Papers will be analyzed in terms of background, hypothesis, appropriate use of experimental methods, and objective interpretation of results. Covers a wide range of papers in biochemistry, genetics, microbiology, and cell and developmental biology.

### ***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 semester (7 weeks). Two seminars, which can be taken in different semesters, are required for credit.

*Prerequisite:* Dependent on seminar.

#### **\*Microbiology 303. Transcription Regulation During Mammalian Embryogenesis**

Catalog Number: 4112

*Mary R. Loeken (Medical School) 3151*

#### **\*Microbiology 305. Molecular Determinants of Intracellular Bacterial Pathogenesis**

Catalog Number: 3190

*Darren E. Higgins (Medical School) 2963 (fall term only)*

#### **\*Microbiology 306. Molecular Basis for Simian Virus Pathogenesis**

Catalog Number: 3185

*Ronald C. Desrosiers (Medical School) 1874*

#### **\*Microbiology 307. Growth Factors and Signal Transduction**

Catalog Number: 5726

*Charles D. Stiles (Medical School) 4828*



**\*Microbiology 308. Infectious Disease & Basic Microbiological Mechanisms**

Catalog Number: 4217

*Dennis L. Kasper (Medical School) 4815*

**\*Microbiology 309. Microbial Metabolism**

Catalog Number: 5086

*Dan G. Fraenkel (Medical School) 1169*

**\*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 314. Cell Interactions in Vertebrate Development**

Catalog Number: 0862

*Sergei Y. Sokol (Medical School) 3530*

**\*Microbiology 315. Biochemical Mechanisms Controlling Cell Growth and Differentiation**

Catalog Number: 3273

*Michael E. Greenberg (Medical School) 1400*

**\*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 319. Regulation of Gene Expression and Evolution of Metabolic Pathways in Bacteria**

Catalog Number: 1168

*Edmund C. C. Lin (Medical School) 1183*

**\*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 Calderwood (Medical School) 3520*

**\*Microbiology 324. Bacterial Pathogenesis, Vaccine Development & Host Epithelial Cell Responses to Bacterial Infection**

Catalog Number: 3472

*Gerald Pier*

*Half course (throughout the year). .*

**\*Microbiology 326. Protein-Protein Interactions in Eukaryotic Signal Transduction**

Catalog Number: 1582

*Bruce J. Mayer (Medical School) 1638*

**\*Microbiology 328. Molecular Biology of Epstein Barr Virus Infection and Transformation of B Lymphocytes**

Catalog Number: 3188

*Elliott D. Kieff (Medical School) 1858*

**\*Microbiology 332. Gene Regulation of Prokaryotes**

Catalog Number: 0915

*Ann Hochschild (Medical School) 2314*

**\*Microbiology 333. Bacterial Pathogenesis**

Catalog Number: 4275

*Catherine A. Lee (Medical School) 3259*

**\*Microbiology 335 (formerly \*Cell Biology 311). Molecular Biology of Parasites**

Catalog Number: 0528

*Dyann F. Wirth (Public Health) 2492*

**\*Microbiology 338. Structure-Function of Human Mannose-Binding Protein**

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 341. DNA Recombination and Repair in Mammalian Cells**

Catalog Number: 6153

*David T. Weaver (Medical School) 2031*

***Neurobiology***

***Primarily for Graduates***

**Neurobiology 200. Introduction to Neurobiology**

Catalog Number: 6062 Enrollment: Limited to 45.

*Richard H. Masland (Medical School), John A. Assad (Medical School), David P. Corey (Medical School), Bradley T. Hyman (Medical School), David N. Louis (Medical School), and guest lecturers*

*Half course (fall term). M., W., F., 9–12.*

Spans modern neuroscience from molecular neurobiology to perception and cognition, including the following major topics: anatomy and development of the brain; cell biology of neurons and glia; ion channels and electrical signaling; synaptic transmission, integration, and chemical systems of the brain; sensory systems; motor systems; higher brain function (memory, language, affective disorders).

*Note:* Offered jointly with the Medical School as HT 130. Follows the Medical School calendar. Three hours of lecture and six hours of lecture/conference weekly.

**Neurobiology 204. Central Nervous System Neurophysiology**

Catalog Number: 5603

*R. Clay Reid (Medical School), John A. Assad (Medical School), Bruce P. Bean (Medical School), and Wade G. Regehr (Medical School)*

*Half course (spring term). M., W., 10–12.*

Introduction to the physiology of circuits in the vertebrate central nervous system. Topics include the auditory, somatosensory, and visual systems, the cerebellum, and the neural control of eye movements. The behavior of these systems will be analyzed at three levels: the electrophysiological properties of single neurons, synaptic interactions between neurons *in vitro*, and the behavior of the circuits *in vivo*.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 721.0.

*Prerequisite:* Neurobiology 220.

**[Neurobiology 205 (formerly BCMP 226). Neurobiology of Developmental Disabilities]**

Catalog Number: 4236 Enrollment: Minimum of 10.

*Ursula C. Dräger (Medical School), Gerald Frank Cox (Medical School), and Peter McCaffery (Medical School)*

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

In-depth study of the neurochemical basis of developmental disabilities, especially those leading to mental retardation. Emphasis on cell and molecular biological processes underlying abnormalities associated with brain structure and function. Topics include neuroanatomical abnormalities, molecular genetics of developmental disorders, teratology, enzymopathies, demyelinating disorders, nutritional effects on brain, neuroendocrine control mechanisms, and



behavior.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 717.0.

*Prerequisite:* Introductory neurobiology and biochemistry.

### **Neurobiology 206. Neuropharmacology**

Catalog Number: 1733

*Jonathan B. Cohen (Medical School), Kathleen M. Buckley (Medical School), and Morgan H. Sheng (Medical School)*

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

Introduction to the pharmacology of synaptic function, receptor recognition, and regulation. Topics include the structure and function of neurotransmitter receptors and their intracellular signalling pathways, and the mechanisms involved in the metabolism, storage, and release of neurotransmitters. Examples are chosen from monoamine, amino acid, and peptidergic systems to illustrate the molecular basis of neuropharmacology.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 718.0.

*Prerequisite:* Knowledge of introductory biochemistry and neurobiology.

### **[Neurobiology 207. Developmental Neurobiology]**

Catalog Number: 4977 Enrollment: Limited to 30.

*Rosalind A. Segal (Medical School), Stuart A. Tobet (Medical School), David L. Van Vactor (Medical School), and Christopher A. Walsh (Medical School)*

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

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:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 720.0.

*Prerequisite:* \*Neurobiology 300 or permission of instructor.

### **[Neurobiology 208. The Visual System]**

Catalog Number: 1169

*Margaret S. Livingstone (Medical School) and associates*

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

The mammalian visual system: physiology, anatomy, and perception.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 712.0.

*Prerequisite:* Introductory neurobiology.

### **Neurobiology 209. The 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., 7:30–9:30 p.m.*



Designed for advanced undergraduate and graduate students interested in diseases and disorders of the nervous system. A major disease or disorder is presented each week. Monday sessions involve patient presentations and “core” lectures describing clinical aspects of a disease or disorder, the pathology (where relevant), and the basic science information needed to help in understanding the disease or disorder. On Wednesdays, students present material from original literature sources, and there is general discussion.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 713.0. Introductory neurobiology, biochemistry, and molecular biology are recommended.

### **\*Neurobiology 220. Cellular Neurophysiology**

Catalog Number: 2141

*Bruce P. Bean (Medical School), Stephen C. Cannon (Medical School), Wade G. Regehr (Medical School), and Gary I. Yellen (Medical School)*

*Half course (fall term). Tu., Th., 9–12, and weekly discussion section.*

Introduction to the physiology of neurons. Topics include structure and function of ion channels, generation and propagation of action potentials, physiology of synaptic transmission, and mechanisms of neurotransmitter modulation of neuronal activity. 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), Linda D. Buck (Medical School), and Michael E. Greenberg (Medical School)*

*Half course (spring term). Tu., Th., 2–4.*

Introduction to the molecular biology and genetics of the nervous system. Selected aspects of development, gene regulation, plasticity, and behavior are covered. Includes reading and discussion of original papers.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as NB 715.0.

*Prerequisite:* Introductory neurobiology (may be taken concurrently).

### **[Neurobiology 230. Biophysics of Ion Channels]**

Catalog Number: 5809

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

Quantitative treatment of topics in ion channel biophysics, including models of ion permeation, ionic selectivity, channel gating and regulation, mechanisms of block, and molecular properties of channels. Techniques of electrophysiological study of channels discussed in detail. Includes laboratory exercises, problem sets, and extensive reading of original papers.

*Note:* Expected to be given in 2000–01. Given in alternate years. For graduate students intending to study ion channels. Offered jointly with the Medical School as NB 716.0.

*Prerequisite:* Neurobiology 220 or permission of instructor.



***Graduate Courses of Reading and Research***

**\*Neurobiology 300. Advanced Topics in Neurobiology**

Catalog Number: 6206

*Larry I. Benowitz (Medical School) 3150 and associates  
Half course (fall term; repeated spring term). Hours to be arranged.*

Topics cover areas at the molecular, cellular, and systems levels in both basic and clinical neuroscience.

*Note: A series of reading and discussion seminars, each running for a half semester (seven weeks). Two seminars, which can be taken in different semesters, are required for credit. Offered jointly with the Medical School as NB 719.0.*

**\*Neurobiology 301. Properties of Synapses**

Catalog Number: 3194

*Kathleen M. Buckley (Medical School) 2015*

**\*Neurobiology 302. Studies on Cell Interaction**

Catalog Number: 4267

*Edwin J. Furshpan (Medical School) 2810*

**\*Neurobiology 303. Physiology of Single Neurons**

Catalog Number: 3136

*David D. Potter (Medical School) 2808*

**\*Neurobiology 304. Chemistry of Synapses**

Catalog Number: 5467

*Edward A. Kravitz (Medical School) 2063*

**\*Neurobiology 306. Central Nervous System Physiology**

Catalog Number: 1112

*David H. Hubel (Medical School) 2884*

**\*Neurobiology 307. Investigation of Central Nervous System Pathways Regulating Autonomic & Neuroendocrine Function**

Catalog Number: 4961

*Joel Keith Elmquist (Medical School) 3045 (spring term only)*

**\*Neurobiology 308. Molecular Mechanisms of Catecholaminergic-specific Gene Regulation**

Catalog Number: 6125

*Kwang-Soo Kim (Medical School) 3046 (spring term only)*

**\*Neurobiology 310. Molecular Mechanisms of Synaptic Plasticity**

Catalog Number: 2272

*Morgan H. Sheng (Medical School) 2085*



**\*Neurobiology 311. Circadian Biology**

Catalog Number: 4024

*Steven M. Reppert (Medical School) 2627*

**\*Neurobiology 313. Molecular Neurobiology of the Biological Clock**

Catalog Number: 1758

*Charles J. Weitz (Medical School) 1139*

**\*Neurobiology 314. Structure and Function in the Central Nervous System**

Catalog Number: 3994

*Ursula C. Dräger (Medical School) 6137*

**\*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. Molecular Genetics of Learning**

Catalog Number: 0408

*Nobuki Nakanishi (Medical School) 1292*

**\*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 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. Developmental Neurobiology**

Catalog Number: 4715

*Kristen Harris (Medical School) 2473*

**\*Neurobiology 327. Rotations in Neurosciences**

Catalog Number: 5694

*Jonathan B. Cohen (Medical School) 1120*

**\*Neurobiology 328. Mechanisms of Cell Death in Stroke and Trauma**

Catalog Number: 8967

*Eng H. Lo (Medical School) 3049 (spring term only)*

**\*Neurobiology 329. Molecular and Cell Biology of Alzheimer's Disease**

Catalog Number: 8816

*Dennis J. Selkoe (Medical School) 2857*

**\*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 334. Molecular Biology of Olfaction**

Catalog Number: 4986

*Linda D. Buck (Medical School) 1128*

**\*Neurobiology 336. Dyslexia Neuroanatomical Laboratory**

Catalog Number: 1645

*Gordon Sherman (Medical School) 1171*

**\*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 341. Molecular Physiology of Neurologic Disease**

Catalog Number: 5441

*Stephen C. Cannon (Medical School) 1792*

**\*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 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. G Proteins, Ion Channels, Calcium**

Catalog Number: 3689

*David E. Clapham (Medical School) 2987*

**\*Neurobiology 356. Ion Channels in Neural Cell Membranes**

Catalog Number: 8368

*David P. Corey (Medical School) 1345*



**\*Neurobiology 357. Neuropharmacology of the Auditory System**

Catalog Number: 2531

*William F. Sewell (Medical School) 1616*

**\*Neurobiology 358. Neurogenetics of Human Disease**

Catalog Number: 7616

*Xandra O. Breakefield (Medical School) 1428*

**\*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 365. Cellular and Molecular Neuroscience**

Catalog Number: 4353

*Stuart A. Lipton (Medical School) 1346*

**\*Neurobiology 366. Neurobiology of the Retina**

Catalog Number: 7391

*Richard H. Masland (Medical School) 4923*

**\*Neurobiology 367. Neo-Cortical Development and 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. Molecular Mechanisms of Neurodegeneration in Alzheimer's Disease and in the Aging**

Catalog Number: 1557

*Rudolph Emile Tanzi (Medical School) 2683*

**\*Neurobiology 371. Understanding the Mechanisms that Control the Generation and Differentiation of Neurons**

Catalog Number: 9968

*Stefan Thor (Medical School) 2694*



**\*Neurobiology 372. Neurotransmitter Control of Ion Channels**

Catalog Number: 7104

*Bruce P. Bean (Medical School) 1148*

**\*Neurobiology 373. Developmental Studies of the Murine Trigeminal**

Catalog Number: 7485

*Qiufu Ma 3034 (spring term only)*

**\*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 (Medical School) 2424*

**\*Virology 304. Molecular Mechanisms by Which Kaposi's Sarcoma-Associated Herpes Virus Mediates Tumor Genesis**

Catalog Number: 8182

*Kenneth Marc Kaye (Medical School) 3064 (spring term only)*

***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

*Cynthia C. Morton (Medical School) and William F. Sewell (Medical School)*

*Half course (fall term). Tu., Th., 4:30–6.*

This critical reading and discussion course will examine molecular genetic and molecular biological approaches to understanding auditory function and dysfunction. This course will emphasize the functional implications of genetic disorders of hearing in which both the gene and the molecular defect have been identified or hypothesized. It will also cover molecular biological approaches to understanding and intervening in auditory dysfunction. Discussions will be led by students. The first half of the course will focus on human genetics.

*Note:* Expected to be given in 2000–01. Given in alternate years. Offered jointly with the Medical School as HT 730.

*Prerequisite:* Introductory courses in neurobiology and molecular biology are recommended.



**[\*Pathology 207. Signal Integration in the Cell]**

Catalog Number: 8111 Enrollment: Limited to 12.

*T. Keith Blackwell (Medical School) and Karl Münger (Medical School)*

*Half course (fall term). Tu., 1–3.*

This reading course will examine, at the molecular level, mechanisms by which prokaryotic and eukaryotic cells arrive at critical fate decisions by integrating multiple intra- and intercellular signals. Particular topics to be covered include how cells are instructed to differentiate, aspects of cell cycle regulation, and combinatorial mechanisms by which transcription is regulated. The two parts of this course can be taken together as a half-course, or individually as quarter courses under Pathology 300.

*Note:* Expected to be given in 2000–01. Also offered under Pathology 300. Offered jointly with the Medical School as PA 711.0. More information about this course may be obtained at <http://friend.med.harvard.edu/courses/signalintegration/main.html>.

**\*Pathology 209. Tumor Pathophysiology and Transport Phenomenon**

Catalog Number: 5934

*Rakesh K. Jain (Medical School)*

*Half course (fall term). M., 5:30–7:30 p.m.*

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 angiogenesis (formation of new blood vessels), blood flow and microcirculation, metabolism and microenvironment, transport and binding of small and large molecules, movement of cancer and immune cells, metastatic process, radiotherapy, chemotherapy, immunotherapy, hyperthermia, and photodynamic therapy of solid tumors.

*Note:* Expected to be omitted in 2000–01. Given in alternate years. Offered jointly with the Medical School as HT525J.

***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 Cell, Molecular, and Developmental Biology**

Catalog Number: 2245

*Patricia A. D'Amore (Medical School) 1168*

Topics cover areas of interest in cell, molecular, and developmental biology such as signal integration in the cell, biology of growth factors, and cell adhesion molecules. Different topics are covered each term.

*Note:* A series of reading and discussion seminars, each running for a half semester (seven weeks). Two seminars, which can be taken in different semesters, are required for credit.

*Prerequisite:* Dependent on seminar.

**\*Pathology 302. Molecular Mechanisms of Leukocyte Trafficking**

Catalog Number: 2273

*Ulrich H. Von Andrian-Werburg (Medical School) 2090*



**\*Pathology 303. Interactions of Viral Oncoproteins and Cell Regulatory Molecules**

Catalog Number: 1644

*Peter M. Howley (Medical School) 1076*

**\*Pathology 304. Viral Carcinogenesis**

Catalog Number: 1283

*Thomas L. Benjamin (Medical School) 4115*

**\*Pathology 305. Oncology: Immunogenetics**

Catalog Number: 0277

*Jeffrey L. Sklar (Medical School) 3528*

**\*Pathology 306. Growth Regulation of Vascular Cells**

Catalog Number: 0220

*Morris J. Karnovsky (Medical School) 2065*

**\*Pathology 307. Polarity and Trafficking of Membrane Proteins in Epithelial Cells**

Catalog Number: 0874

*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. Multiprotein Complexes in Transcriptional 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 (formerly \*Cell Biology 352). 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 315. Mechanisms for Cell Adhesion and Migration**

Catalog Number: 1212

*Martin E. Hemler (Medical School) 2868*

**\*Pathology 316. Control of Gene Expression in Tumorigenesis and Differentiation**

Catalog Number: 3892

*Thomas M. Roberts (Medical School) 7729*

**\*Pathology 317. Molecular Basis for Cancer Phenotypes**

Catalog Number: 4551

*Lan Bo Chen (Medical School) 8057*

**\*Pathology 318. Molecular Aspects of Immunoregulation and T-Cell Activation**

Catalog Number: 0126

*Christopher E. Rudd (Medical School) 2310*

**\*Pathology 319. Gene Regulation in the Immune Response**

Catalog Number: 1859

*Anjana Rao (Medical School) 1854*

**\*Pathology 320 (formerly \*Cell Biology 341). Ultrastructural Cell Biology of Basophil, Mast Cells, Eosinophils, Neutrophils, and Endothelial Cells in Health and Disease**

Catalog Number: 4144

*Ann Marie Dvorak (Medical School) 1583*

**\*Pathology 321. Signaling Mechanisms Regulating Cell Survival & Differentiation in the Nervous System**

Catalog Number: 8032

*Azad Bonni (Medical School) 2923 (fall term only)*

**\*Pathology 322 (formerly \*Cell Biology 353). Tumor Suppressor Proteins and Cell Cycle Control**

Catalog Number: 5815

*Philip W. Hinds (Medical School) 1584*

**\*Pathology 323 (formerly \*Cell Biology 344). 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 328. Sorting and Targeting of Secretory Proteins**

Catalog Number: 4803

*Peter Arvan (Medical School) 1823*

**\*Pathology 330. Transcriptional Regulations and Cellular Differentiation**

Catalog Number: 5521

*T. Keith Blackwell (Medical School) 1826*

**\*Pathology 331. Molecular Biology of Endothelium: Transcriptional Regulation of Endothelial-Leukocyte Adhesion Molecules**

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 334. Characterization of Tumor Suppressor Genes Implicated in Wilms Tumor and Breast Cancer**

Catalog Number: 5744

*Daniel A. Haber (Medical School) 1832*

**\*Pathology 336. Epithelial Cell Differentiation and Transformation**

Catalog Number: 3171

*Towia A. Libermann (Medical School) 1833*

**\*Pathology 337. Biochemistry of Cell Adhesion**

Catalog Number: 0555

*Arthur M. Mercurio (Medical School) 2621*

**\*Pathology 338. Genetic and Biochemical Analysis of GTPase-mediated Signal Transduction Pathways**



Catalog Number: 2647

*Jeffrey E. Settleman (Medical School) 1820*

**\*Pathology 339. Cell-Cell and Cell-Matrix Adhesion; Regulation of Apoptosis**

Catalog Number: 0205

*Ivan Stamenkovic (Medical School) 1834*

**\*Pathology 340. Molecular Biology of Kidney Development and Kidney Cancer**

Catalog Number: 5390

*Vikas P. Sukhatme (Medical School) 1835*

**\*Pathology 341. Phagocyte Development and Gene Regulation**

Catalog Number: 5036

*Daniel G. Tenen (Medical School) 1172*

**\*Pathology 342. Molecular Regulation of Angiogenesis**

Catalog Number: 2992

*Luisa Iruela-Arispe (Medical School) 2076*

**\*Pathology 343. Cell Adhesion in Vascular Biology**

Catalog Number: 4822

*Denisa D. Wagner (Medical School) 2092*

**\*Pathology 344. Transcription Factors in Lymphocyte Commitment and Differentiation**

Catalog Number: 5321

*Katia Georgopoulos (Medical School) 2070*

**\*Pathology 345. Vascular Interstitial Biology of Solid Tumors**

Catalog Number: 5633

*Rakesh K. Jain (Medical School) 2079*

**\*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 348. Cell-cycle Regulation and Checkpoint Control During Animal Development, Using *C. elegans***

Catalog Number: 7924

*Sander Van Den Heuvel (Medical School) 2256*



**\*Pathology 349. Mammalian Chromatin Structure and Gene Expression**

Catalog Number: 9199

*William C. Forrester (Medical School) 1859*

**\*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 353. Cell Cycle Proteins in Development and Cancer**

Catalog Number: 1475

*Piotr Sicinski (Medical School) 2245*

**\*Pathology 354. Biochemistry of Liquid-Receptor Interactions**

Catalog Number: 9969

*Stephen C. Blacklow (Medical School) 1462*

**\*Pathology 355. DNA Replication in Normal and Cancer Cells**

Catalog Number: 7108

*Anindya Dutta (Medical School) 2023*

**\*Pathology 356. Biochemical and Genetic Analysis of Chromatin and Transcription**

Catalog Number: 8837

*Michael Pazin (Medical School) 2646*

**\*Pathology 357. Regulation of Mammalian Cell Death**

Catalog Number: 2139

*Stanley J. Korsmeyer (Medical School) 2839*

**\*Pathology 358. Regulation and Coordination of Cell Interactions**

Catalog Number: 0527

*Michel A. Streuli (Medical School) 2989*

**\*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 Langer Meyerson (Medical School) 2421*

***Pharmacology***



For courses pertaining to Pharmacology see listings under the Department of Biological Chemistry and Molecular Pharmacology.

## ***Virology***

Virology students should consult Microbiology 201: Molecular Biology of Eukaryotic Cells and Viruses, which is being offered jointly by the Department of Microbiology and Molecular Genetics and the Committee on Virology as a core curriculum course.

### ***Primarily for Graduates***

#### **Virology 200. Animal Virology**

Catalog Number: 1190

*James Cunningham (Medical School), Nick Acheson, Dana Gabuzda (Medical School)*

*Half course (spring term). Tu., 12:30–4, M., 1:30–3. EXAM GROUP: 6, 7, 14, 15, 16, 17*

Topics that will be covered in lectures include the replication strategies of RNA and DNA viruses, the principles of viral structure, and the cell biology of viral replication with special emphasis on viral entry, viral assembly, viral translational control mechanisms, and viral transformation. Other topics that will be covered include the mechanisms responsible for generating and maintaining diversity in RNA viral populations, viral immunology and pathogenesis, plant viruses, viroids, prions, antiviral chemotherapy, and the design and use of viral vectors. The lectures will be integrated with a weekly seminar series and with a discussion group in which students will critically evaluate one or more key papers in virology.

*Note:* Offered jointly with the Medical School as MG 723.0.

#### **Virology 201. Animal Virology: Seminar**

Catalog Number: 6025

*Joseph G. Sodroski (Public Health), Heinrich G.J. Gottlinger (Medical School), Jae Ung Jung (Medical School), and Frederick C. Wang (Medical School)*

*Half course (fall term). W., 1:30–4:30.*

Examines aspects of biological and molecular mechanisms by which animal viruses replicate in or interact with host cells and organisms. Topics chosen from viral entry into host cells, transcription of viral genes, replication of viral nucleic acids, transformation of cells, virus assembly, virus genetics, viral vectors, viral pathogenesis, antiviral agents, and host immune response.

*Note:* Offered jointly with the Medical School as MG 724.0.

*Prerequisite:* General background in biochemistry and virology.

### ***Graduate Courses of Reading and Research***

#### **\*Virology 300r. Introduction to Research**

Catalog Number: 0530

*Elliott D. Kieff (Medical School) 1858*



**\*Virology 301. Herpes Virus Interaction with the Host Cell**

Catalog Number: 7344

*David M. Knipe (Medical School) 7089*

**\*Virology 303. Enzymology of DNA Replication**

Catalog Number: 6716

*Charles C. Richardson (Medical School) 2479*

**\*Virology 304. Molecular Mechanisms by Which Kaposi's Sarcoma-Associated Herpes Virus Mediates Tumor Genesis**

Catalog Number: 8182

*Kenneth Marc Kaye (Medical School) 3064 (spring term only)*

**\*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 314. Virology and Host Defense**

Catalog Number: 1046

*Robert Finberg (Medical School) 2195*



**\*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 318. Structural Molecular Biology**

Catalog Number: 9250

*Don C. Wiley 3598 (on leave fall term) (fall term only)*

**\*Virology 319. Functional Analysis of Tumor Suppression Genes**

Catalog Number: 5817

*David M. 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 M. 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 Diane Fingerhuth (Medical School) 2707*

**\*Virology 324. Leukemogenic Retroviruses**

Catalog Number: 5263

*James Morgan 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**

Catalog Number: 8029

*Ruth Margrit Ruprecht (Medical School) 2716*



**\*Virology 326. Pathogenesis and Treatment of Human Retrovirus and Herpesvirus Infection.**

Catalog Number: 6440

*Martin S. Hirsch (Medical School, Public Health) 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 (Medical School) 2769 (fall term only)*

**\*Virology 329. Cellular Immunology of Persistent Human Virus Infections**

Catalog Number: 5417

*Bruce Walker*

*Half course (throughout the year). .*

**\*Virology 330. Advanced Topics in Virology**

Catalog Number: 5966

*Philip W. Hinds (Medical School) 1584*

A series of reading and discussion seminars, each running for a half semester (7 weeks). Two seminars, which can be taken in different semesters, are required for credit.

*Prerequisite:* Dependent on seminar.

## Medieval Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Committee on Medieval Studies*

Michael McCormick, Professor of History (*Chair*)

Thomas N. Bisson, Henry Charles Lea Professor of Medieval History

Charles Donahue, Jr., Professor of Law (*Law School*)

Daniel G. Donoghue, Professor of English and American Literature and Language

John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

Patrick K. Ford, Margaret Brooks Robinson Professor of Celtic Languages and Literatures

Thomas Forrest Kelly, Professor of Music

Beverly Mayne Kienzle, Professor of the Practice in Latin and Romance Languages (*Divinity School*)

Angeliki E. Laiou, Dumbarton Oaks Professor of Byzantine History (*on leave fall term*)

Francisco Márquez, Arthur Kingsley Porter Professor of Romance Languages and Literatures



Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)  
 John E. Murdoch, Professor of the History of Science  
 Derek A. Pearsall, Gurney Professor of English Literature (*on leave spring term*)  
 Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization  
 Christine Smith, Professor of Architectural History (*Design School*)  
 R. J. Tarrant, Harvard College Professor and Pope Professor of the Latin Language and Literature  
 Alfred Thomas, John L. Loeb Associate Professor of the Humanities  
 Jan Ziolkowski, Professor of Medieval Latin and Comparative Literature

### ***Other Faculty Offering Instruction in Medieval Studies***

Roger E. Stoddard, Senior Lecturer on English

The standing committee on Medieval Studies exists in order to promote and coordinate work on medieval subjects 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. 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 Ph.D. After a year, it is recommended that the student contact the chair 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 202. For more information and to receive the MSC's email on its frequent activities, contact [medieval@fas.harvard.edu](mailto:medieval@fas.harvard.edu).

### ***For Undergraduates and Graduates***

#### **[Medieval Studies 101 \(formerly History 2277\). The Auxiliary Disciplines of Medieval History: Proseminar](#)**

Catalog Number: 3759

*Michael McCormick*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

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 general heuristics, hagiography, late and medieval Latin philology, late antique studies, numismatics, diplomatic, codicology, and an initiation to Latin paleography, from the 6th to the 17th century.

*Note:* Expected to be omitted in 2000–01.

### **Medieval Studies 103. Research Methods in Late Medieval and Renaissance Studies**

Catalog Number: 4215

*James Hankins*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Introduction to manuscript research, paleography, codicology, and source criticism.

### **[Medieval Studies 105. Production of Manuscripts and Printed Books Before 1600]**

Catalog Number: 3251

*Roger E. Stoddard and assistant*

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

An examination of the physical structure and means of production of early manuscripts and printed books based on examples in the Houghton Library.

*Note:* Expected to be given in 2000–01.

### **[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. Offered concurrently, but with a separate section, in the Law School.*

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 2000–01. Normally alternates with History 1133.

### **Medieval Studies 119. Constitutional and Legal History of Medieval Continental Europe**

Catalog Number: 4410

*Charles Donahue, Jr. (Law School)*

*Half course (spring term). M., W., F., at 10, plus one section on F. to be arranged. Offered concurrently, but with a separate section, in the Law School. EXAM GROUP: 3*

A survey of the main outlines of continental European 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: the “barbarian law codes” (6th–10th centuries), the revival of the academic study of Roman and canon law (11th–13th centuries), the customary law (13th–16th centuries), the schools of academic law (14th–17th centuries: the “commentators,” the “humanists,” the “natural law school”), the tentative moves toward codification (13th–17th centuries). 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 omitted in 2000–01.

*Cross-listed Courses*

[\*\*Ancient Near East 121. History of the Study of the Hebrew Bible: From the Renaissance to the Present: Seminar\*\*](#)

[\*\*Arabic 245r. Classical Arabic Literature: Seminar\*\*](#)

[\*\*Celtic 112. Performance and Medieval Celtic Literature\*\*](#)

[Celtic 114. Early Irish Historical Tales]

[\*\*Celtic 138r. The Mabinogi\*\*](#)

[\*\*Celtic 150. Celtic Paganism\*\*](#)

[Celtic 184. Early Irish Literature]

[\*\*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 226r. Readings in Middle Welsh\*\*](#)

[Celtic 227. Welsh Bardic Poetry: Seminar]

[\*\*Celtic 230r. Sources for Medieval Welsh Culture and Society\*\*](#)

[Classics 244. Greek Epigraphy]

[Classics 277. Greek Palaeography]

[Classics 281. Memory and Mnemonics in the Latin Tradition]

[\*\*\\*English 90op. Poems of the Pearl Manuscript\*\*](#)

[\*\*English 101. The History and Structure of the English Language\*\*](#)

[\*\*English 102c. Anglo-Saxon Language and Culture: The Millennium\*\*](#)

[\*\*English 103. Anglo-Saxon Language and Culture: King Alfred\*\*](#)

[\*\*English 117. Medieval Drama: History and Performance\*\*](#)

[\*\*\\*English 200b. \*Beowulf\*\*\*](#)

[\*\*\\*English 212. Alliterative Poetry in Middle English\*\*](#)

[\*\*\\*English 296. Descriptive and Analytical Bibliography: Seminar\*\*](#)

[\*\*\\*English 300hf. Old and Middle English: Doctoral Conference\*\*](#)

[\*\*\\*Folklore and Mythology 103. Oral Literature\*\*](#)

[\*Folklore and Mythology 166. Witchcraft and Hostile Magic in the Later Middle Ages: Conference Course]

[Foreign Cultures 28. The Religion and Culture of Islam]

[\*\*French 70a. Introduction to French Literature I: The Beginnings of Literary Space\*\*](#)

[French 102. Introduction to Medieval Literature and Old French]

[\*\*French 109. Representations of Death and Mourning in French Medieval Literature\*\*](#)

[German 101. Introduction to Medieval Literature and Culture]

[Germanic Philology 200. Introduction to Middle High German]

[Germanic Philology 225. History of the German Language]

[Historical Study B-11. The Crusades]

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

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

[\*\*History 10a. Western Societies, Politics, and Cultures: From Antiquity to 1650\*\*](#)

[\*\*\\*History 90a. Major Themes in Medieval History\*\*](#)

[\*\*\\*History 90b. Major Themes in Early Modern European History\*\*](#)

**History 1111. World of Late Antiquity**

[History 1133. Medieval England (ca. 871–1485)]

**History 1136. Romanesque Southern France (800-1250)****History 1141. Medieval Thought: Conference Course****History 1150. The Jews in Muslim and Christian Spain****History 1166. The West European Family, 1300–1700: Conference Course**

[History 1211a. Byzantine Civilization 330–1000]

[History 1211b. Byzantine Civilization 900–1453]

**History 1212. The Imperial System: Byzantine Society and Civilization, 8thc.-1204: Conference Course**

[History 1353 (formerly History 1251 and 1551). Medieval and Early Modern Russia]

[History 1877a. History of the Near East, 600–1055]

[History 1878a. Ottoman State and Society I (1300–1550)]

**History 2101. Medieval Societies and Cultures: Proseminar**

[History 2122. Early Medieval History: Seminar: Communications in the Early Medieval Mediterranean]

**\*History 2124. Medieval History: Seminar****History 2126. Medieval Law****History 2271r. Topics in Byzantine History: Seminar****\*History 2353 (formerly History 2251). Topics in Pre-Petrine History: Seminar****History 2902. Studies in Tudor and Stuart History**

[History of Art and Architecture 14e. Introduction to Western Medieval Art and Architecture]

[History of Art and Architecture 140r. Byzantine Art]

[History of Art and Architecture 149. Art Criticism and Censorship in the Middle Ages]

[History of Art and Architecture 149x. Antique Figures in Medieval Landscapes]

[History of Art and Architecture 246y. Tomb Sculpture and Gothic Courtly Imagery: A Walk with Madness, Love, and Death]

**History of Art and Architecture 283. Early and Medieval Chinese Mortuary Art****History of Science 106. History of Ancient Science**

[History of Science 107. History of Medieval Science]

**\*History of Science 206r. Ancient Science: Seminar****\*History of Science 207r. Medieval Science: Seminar****\*History of Science 298r. The Establishment of Medieval Latin Scientific and Philosophical Texts: Seminar**[Italian 120a. Dante's *Inferno*][Italian 120b. Dante's *Purgatorio*][Italian 120c. Dante's *Paradiso*]

[Italian 135. Boccaccio]

[Italian 220. Poesia del '200]

**Italian 230. Petrarca and the Divided Self**

[Italian 256. Themes and Dreams of the Italian Renaissance]

**Latin 3m. Latin Prose Selections (Medieval)****Linguistics 250. Old Church Slavonic****Literature and Arts A-26. Dante's *Divine Comedy* and Its World**

[Literature and Arts A-68. Poets and Poetry in the Celtic Literary Tradition]



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

[Literature and Arts C-20. The Hero of Irish Myth and Saga](#)

[Literature and Arts C-22. European Culture in the Latin Middle Ages](#)

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

[Literature and Arts C-28. Icon—Ritual—Text: Reading the Culture of Medieval Rus’]

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

[Medieval Greek 115ar. Introduction to Byzantine Greek](#)

[Medieval Latin 115. Medieval Latin Lyric Poetry]

[Medieval Latin 116. Medieval Latin Epic and Romance]

[Medieval Latin 117. Fairy Tales and their Tellers in the Middle Ages](#)

[Medieval Latin 120. Wisdom and Learning]

[Medieval Latin 150. Abelard and Heloise]

[Music 191r. Topics in Medieval and Renaissance Music: Proseminar](#)

[Music 205. Medieval Notation]

[Music 211r. Topics in Medieval Music: Seminar]

[Music 212r. Chant: Seminar]

[Music 213r. Topics in Medieval Polyphony: Seminar](#)

[Scandinavian 103. Scandinavian Mythology and Folklore]

[Scandinavian 151. The Viking World](#)

[\\*Scandinavian 200a. Introduction to Old Norse](#)

[Scandinavian 200br. Old Norse Literature: Edda and Saga](#)

[Slavic 130a. Survey of Czech Literature from the Beginnings to 1774](#)

[Slavic 211. History of Muscovite Literature, 1500–1700: Conference Course](#)

[Slavic 212. The History of the Languages of Muscovy: Conference Course]

[Slavic 213. Lessons of “The Igor Tale”: Antecedents, Text, Posterity]

[Slavic 291. Problems in the History of Early Ukrainian Literature](#)

[Spanish 70a \(formerly Spanish 100a\). Hispanic Literature: The Middle Ages](#)

[Spanish 120. Medieval Spain in the *Poem of the Cid*]

[Spanish 281r. Spanish Literature: Seminar](#)

## Middle East Program

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Committee on Middle Eastern Studies*

Cemal Kafadar, Vehbi Koc Professor of Turkish Studies (*Chair*)

Eva Bellin, Associate Professor of Government

Steven C. Caton, Professor of Contemporary Arab Studies



Mary-Jo DelVecchio Good, Professor of Social Medicine (*Medical School*)  
 William A. Graham, Jr., Professor of the History of Religion and Islamic Studies  
 William E. Granara, Professor of the Practice of Arabic  
 Michael Herzfeld, Professor of Anthropology (*on leave 1999-00*)  
 Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)  
 Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)  
 F. Engin Sezer, Associate Professor of Turkish  
 Wheeler M. Thackston, Jr., Professor of the Practice of Persian and other Near Eastern Languages (*on leave spring term*)  
 Frank E. Vogel, Assistant Professor of Law (*Law School*)  
 Irene J. Winter, William Dorr Boardman Professor of Fine Arts (*on leave 1999-00*)

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 (A.M.): The program for this degree requires two years of study, leading to an A.M. 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 Ph.D.: The Faculty of Arts and Sciences has approved joint programs with other faculty departments for the degree of Ph.D. in Middle Eastern studies and in the fields of anthropology, fine arts, or history. (*A joint program in economics exists, but students are not being accepted at the present time for this program. Students interested in the economic history of the Middle East should apply to the program in History and Middle Eastern Studies.*) A Ph.D. in political science with a Middle Eastern specialization is offered through the Department of Government, and applications for this program should be made to that department. A candidate for a joint Ph.D. degree is usually expected to have completed an A.M. program in Middle Eastern studies or another relevant field, at Harvard or elsewhere, prior to admission as a doctoral candidate. Concurrent degrees are also offered in Islamic law and Middle Eastern and Islamic studies, which combine degree work in the Harvard Law School and the Faculty of Arts and Sciences. Joint or concurrent degrees with other departments and faculties are also 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 Ph.D. 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 Ph.D 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, Harvard College Professor and the Maria Moors Cabot Professor of Natural Sciences (*Co-Chair*)

Ken Nakayama, Edgar Pierce Professor of Psychology (*Co-Chair*)

Mark G. Baxter, Assistant Professor of Psychology



Alfonso Caramazza, Professor of Psychology  
 Verne S. Caviness, Jr., Joseph P. and Rose F. Kennedy Professor of Child Neurology and Mental Retardation (*Medical School*)  
 Jonathan B. Cohen, Professor of Neurobiology (*Medical School*)  
 Catherine Dulac, Assistant Professor of Molecular and Cellular Biology  
 Kurt W. Fischer, Professor of Education (*Education*)  
 Albert M. Galaburda, Professor of Neurology (*Medical School*)  
 William M. Gelbart, Professor of Molecular and Cellular Biology  
 Daniel T. Gilbert, Professor of Psychology (*on leave 1999-00*)  
 David A. Haig, Associate Professor of Biology  
 Anne Harrington, Professor of the History of Science (*on leave spring term*)  
 Marc D. Hauser, Professor of Psychology  
 Jerome Kagan, Daniel and Amy Starch Professor of Psychology (*on leave fall term*)  
 Stephen M. Kosslyn, Professor of Psychology  
 Edward A. Kravitz, George Packer Berry Professor of Neurobiology (*Medical School*)  
 Samuel M. Kunes, John L. Loeb Associate Professor of the Natural Sciences  
 Richard H. Masland, Charles Anthony Pappas Professor of Neuroscience (*Medical School*)  
 Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology  
 Venkatesh N. Murthy, Assistant Professor of Molecular and Cellular Biology (*Medical School*)  
 Naomi E. Pierce, Sidney A. and John H. Hessel Professor of Biology (*on leave fall term*)  
 Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value  
 Daniel L. Schacter, Professor of Psychology  
 Kerry L. Shaw, Associate Professor of Biology  
 Stuart M. Shieber, Gordon McKay Professor of Computer Science  
 Daniel J. Simons, Assistant Professor of Psychology  
 Mark Tramo, Assistant Professor of Neurology (*Medical School*)  
 Leslie G. Valiant, Gordon McKay Professor of Computer Science and Applied Mathematics  
 Richard W. Wrangham, Professor of Anthropology

The Committee on Mind/Brain/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/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 ways large-scale neural circuits register sensory information and control behavior. The Committee coordinates the wide and varied course offerings that address methods, findings, and theory in neuroscience; helps students learn of opportunities with the various fields allied with neuroscience; and promotes interdisciplinary interaction among members of these fields.

For undergraduate students wishing to specialize in an area related to the neurosciences, four concentrations offer specialized tracks: Biology offers a Neurobiology track; Computer Science offers a Computational Neuroscience track; History and Science offers a Mind, Brain, and Behavioral Sciences track; Psychology offers Mind/Brain Behavior track clusters in Cognition/Brain/Behavior and Psychopathology; and Psychology also administers a Cognitive Neuroscience track, a joint program in Psychology and Biology. Foundation courses are required or recommended each year in all four tracks so that students in the four concentrations can



interact. The foundation courses include Science B-29, Human Behavioral Biology (first year); Biological Sciences 25, Behavioral Neuroscience (sophomore year); one of several designated seminars (junior year); and a research workshop (senior year). For the requirements of each track, consult <http://wjh.harvard.edu/MBB/admin/>.

The courses listed below address various facets of neuroscience or closely related material. Complete descriptions may be found under the various departments.

Science B-29, B-44, B-48.

Anthropology [106].

Biology 22, 174.

Biological Sciences 25.

MCB 117, 129, 138, [225].

Computer Science 181, 182, [228], 283, [287r], 288.

Engineering Sciences 145, 148, [149], [157], 218.

History of Science [144], 172v, [173], 174, 175, [176], [177],[278].

Medical Sciences: BCMP 213; Genetics [214]; Neurobiology 200, [205], 206, [207], [208], 209, 220, 221, [230].

Psychology 13, 16, 18, 975, 985, 987a, [987c], [987d], 987f, 992, 1152, 1202, 1203, 1251, 1253, [1301], 1302, 1353, [1354], [1551], 1653, 1801, [1802], 1803, [1805], 1806, 1851, 1854, [1855], [1856r], 1858, 1859, 2090, [2140], 2150, 2260, 2300r, 2335r, [2340], [2345r], 2350, 2353r, 2355r, 2400, [2420], [2480], 2482

Additional course listings will appear in the booklet *Courses in Mind/BrainBehavior*.

## Music

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of Music*



Thomas Forrest Kelly, Professor of Music (*Chair*)  
 Kofi Agawu, Visiting Professor of Music (*Princeton University*) (*spring term only*)  
 Noël Bisson, Lecturer on Music (*fall term only*)  
 Reinhold Brinkmann, James Edward Ditson Professor of Music (*Director of Graduate Studies*)  
 David E. Cohen, Assistant Professor of Music (*Assistant Head Tutor*)  
 Mario Davidovsky, Fanny P. Mason Professor of Music  
 David Horne, Lecturer on Music  
 Laura Yvonne Kozachek, Lecturer on Music (*fall term only*)  
 Robert D. Levin, Dwight P. Robinson, Jr. Professor of the Humanities (*Head Tutor*)  
 David Lewin, Walter W. Naumburg Professor of Music  
 Lewis Lockwood, Fanny Peabody Professor of Music (*on leave fall term*)  
 Jameson N. Marvin, Senior Lecturer on Music  
 Jeff Nichols, Associate Professor of Music (*on leave 1999-00*)  
 Karen Painter, Assistant Professor of Music (*on leave 1999-00*)  
 Bernard Rands, Walter Bigelow Rosen Professor of Music  
 Mark P. Risinger, Lecturer on Music  
 David Rosen, Visiting Professor of Music (*Cornell University*) (*fall term only*)  
 Kay Kaufman Shelemay, Professor of Music (*on leave spring term*)  
 Kurt Stallmann, Lecturer on Music  
 Daniel Stepner, Preceptor in Music  
 John Stewart, Senior Preceptor in Music  
 Richard Wolf, Assistant Professor of Music  
 Christoph Wolff, William Powell Mason Professor of Music, Dean of the Graduate School of Arts and Sciences  
 James D. Yannatos, Senior Lecturer on Music

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 semester. 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 Afro-American Studies, Core Curriculum, Folklore and Mythology, General Education, and Medieval Studies.

### *Primarily for Undergraduates*

#### \*Music Ar. Musicianship

Catalog Number: 4859 Enrollment: Limited to concentrators; the Earlab is open to students concurrently taking another course in the Music Concentration Program.

*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:* 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. However, concentrators are urged to participate (unofficially) in the Earlab portion from the freshman year on.

### **Music 1a. Introduction to Music I**

Catalog Number: 8071

*Laura Yvonne Kozachek*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 4*

A survey of Western musical style from the medieval through the Classical period.

Approximately one thousand years of music history (ca. 800 - 1800) will be considered within its historical setting. Particular emphasis will be given to Gregorian chant and early polyphony, the text/music relationships in medieval and Renaissance compositions, and the works of J.S. Bach, Mozart, and Haydn. As this course focuses on the aesthetics of musical style and elements of style change, comparisons will be drawn from parallel examples in art, architecture, and literature. Above all, the course is designed to promote skills for intelligent listening. There will be guided listening labs in addition to the lectures and sections.

*Note:* No previous training in music required. May not be counted for concentration.

### **Music 1b. Introduction to Music II**

Catalog Number: 4952

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*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 4*

Music 1b continues the survey started in Music 1a, beginning from the transition from the Classical to the Romantic period. Lectures will cover the history of music within its cultural, social, and political contexts, including a study of musical forms and compositional techniques. Works by Beethoven, Schubert, Chopin, Robert and Clara Schumann, Liszt, Berlioz, Brahms, Tchaikovsky, Mahler, Wagner, Bizet, Verdi, Richard Strauss, Ives, Schoenberg, Berg, Stravinsky, Debussy, and later 20th-century composers; jazz.

*Note:* May be taken independently of Music 1a. No previous training in music required. May not be counted for concentration.

### **Music 2. Fundamentals of Music Theory I**

Catalog Number: 0645

*David Horne*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Open to all students. Provides basic training in music notation, intervals, scales, keys and rhythm. Includes an introduction to harmony, melody and form. The final project is a short composition.



*Note:* For students not intending to concentrate in Music. May not be counted for concentration. Ability to read simple musical notation is helpful but not required; sections are divided according to levels of musical background.

### **Music 3. Fundamentals of Music Theory II**

Catalog Number: 5805

*David Horne*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Focuses on the basic principles of harmony and counterpoint in the common practice period (roughly 1700–1850). The final portion of the course will include an introduction to 20th-century harmony, including a final project of a short composition.

*Note:* May be taken independently of Music 2, but a strong knowledge of music notation, scales and key signatures is essential. Sections are divided according to levels of musical background. May not be counted for concentration.

*Prerequisite:* Music 2 or permission of the instructor.

### **Music 4. Introduction to Composition**

Catalog Number: 2239 Enrollment: Limited to 25

*David Horne*

*Half course (fall term). Th., at 1, Tu., 1–3. EXAM GROUP: 15, 16*

Open to students with little or no prior experience in composition. Explores phrase structure, harmony, counterpoint, and form in a variety of idioms through exercises and short compositions. Also covers basic principles of instrumentation and score preparation.

*Prerequisite:* Music 2 or equivalent or permission of the instructor.

### **[Music 5. Intermediate Composition]**

Catalog Number: 2376

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

Continues the exploration of basic compositional principles begun in Music 4, but with a focus on strategies of large-scale organization in music. Students write three pieces, during the semester, each exemplifying a different principle of formal structure (e.g. rondo, through composition, and “moment form”).

*Note:* Expected to be given in 2000–01. May be taken independently of Music 4 with 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. In any case, concentrators should plan to meet this requirement by no later than the end of the sophomore year.



*Prerequisite:* Basic theory and ear training skills. For more specific information, consult instructor before the first class meeting.

### **\*Music 91r. Supervised Reading and Research**

Catalog Number: 1298

*Robert D. Levin 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 Department Administrator. May be counted for concentration *only* with the prior approval of the Department.

### **\*Music 92r. Senior Project**

Catalog Number: 2744

*Robert D. Levin 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 considering this course 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 semester." 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 Department Administrator.

*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

*Mark P. Risinger*

*Full course (indivisible). M., W., F., at 10, with additional meeting to be arranged.*

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. Meets weekly for three-hour sessions in small sections, with occasional lectures to the entire group.

*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

*Robert D. Levin 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

*Robert D. Levin 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*

An investigation of choral literature of varying styles and genres with emphasis on conducting technique and score analysis.

*Note:* May not be counted for concentration.

*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). M., W., 1–2:30. EXAM GROUP: 6, 7*

Development of the conductor's ear, analytical and interpretive skills, rehearsal techniques, and further development of conducting technique related to choral literature from the Renaissance through the 20th century.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Music 121a, Music 51, or conducting and musicianship background.

**\*Music 125a (formerly \*Music 158a). 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.

*Prerequisite:* Music 51 or permission of instructor.

**\*Music 125b (formerly \*Music 158b). Advanced Orchestration and Conducting**

Catalog Number: 8304

*James D. Yannatos*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

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 omitted in 2000–01.

*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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Music 125a, Music 154, and/or permission of the instructor.

**\*Music 154. Theory II**

Catalog Number: 4771

*David E. Cohen*

*Full course. M., W., F., at 11. EXAM GROUP: 4*

Tonal harmony, voice leading, and form in the late 18th century (fall term) and the 19th century (spring term), explored through analysis of selected works and compositional exercises. Fall term includes an introduction to species counterpoint.

*Note:* Required of all concentrators. May not be counted for credit toward an advanced degree.

*Prerequisite:* Music 51 or equivalent.

**Music 155 (formerly \*Music 155a). Modal Counterpoint**

Catalog Number: 7710

*David Lewin*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Written work in the Palestrina Style.

*Prerequisite:* Music 154 or permission of instructor.

**Music 156 (formerly \*Music 155b). Tonal Counterpoint**

Catalog Number: 3930

*David Lewin*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Written work in the Bach Style.

*Prerequisite:* Music 154 or equivalent.



**Music 157x (formerly \*Music 162 and 162ar). Tonal Analysis**

Catalog Number: 6830

*Kurt Stallmann*

*Half course (fall term). Th., at 4. EXAM GROUP: 18*

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

*Bernard Rands*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Detailed examination of representative 20th-century compositions.

*Prerequisite:* Music 154 or permission of instructor.

**\*Music 160ar. Composition: Proseminar**

Catalog Number: 2685

*Bernard Rands*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Work in original composition. Weekly readings and critiques of student compositions. Aims for one concert of new works each term. Occasionally, short exercises given dealing with specific compositional problems.

*Prerequisite:* Music 154 or permission of instructor.

**Music 160br. Composition: Proseminar**

Catalog Number: 0949

*David Horne*

*Half course (spring term). M., 1–3. EXAM GROUP: 15, 16*

Continuation of Music 160ar.

**[Music 166r. Electronic Music]**

Catalog Number: 1324

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*Full course. Hours to be arranged.*

Composition and performance involving the electronic medium, analog and digital. Course work centers on projects realized in the electronic studio using synthesizers and computers and includes study of relevant aspects of acoustic and electronic theory. Compositions since 1948 in the genres of *musique concrète*, “pure” and “live” electronic music, music for instruments and tape and multimedia are also studied.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Music 154 or permission of the instructor.

**Music 167ar (formerly Music 179a and 179ar ). Composition in the Digital Electronic Medium I**

Catalog Number: 5555



*Kurt Stallmann*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

Composition and performance in the digital studio: projects involve synthesis, sampling, sequencing, MIDI and digital recording and editing, and live performance.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* One course in music theory or composition, or equivalent.

### **Music 167br (formerly Music 179br). Composition in the Digital Electronic Medium II**

Catalog Number: 4618

*Kurt Stallmann*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Continuation of Music 167ar.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Music 167ar, or 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 p.m.; additional meeting time 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. 18th-Century Performance Practice**

Catalog Number: 1460

*Robert D. Levin*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Articulation, ornamentation, improvisation, and other stylistic domains are considered from the perspectives of historical evidence and modern performance.

*Note:* Expected to be omitted in 2000–01. May be counted for music concentration credit for Music 192r.

*Prerequisite:* Music 154 or permission of instructor.

### **[Music 183. 19th-Century Performance Practice ]**

Catalog Number: 0117

*Robert D. Levin*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Evolution of performance style from the Classical era to the Romantic period. The decline in the creative role of the performer, the profound changes in the nature of articulation, dynamics, vibrato and virtuosity, and the rapid technological developments in musical instruments are explored. Includes examination of contemporary treatises and performance styles. A dialogue between scholarship and performance is encouraged.

*Note:* Expected to be given in 2000–01. May be counted for music concentration credit for Music 193r.



**Music 190r. Proseminar: Topics in World Music**

Catalog Number: 0651

*Richard Wolf*

*Half course (fall term). Th., 10–12. EXAM GROUP: 12, 13*

*Music in Islam.* The organization and aesthetics of sound in Islamic music(s) of South Asia.

Research project involving a Muslim community in Boston.

*Note:* For music concentrators or by permission of instructor.

*Prerequisite:* Music 51 (may be taken concurrently).

**Music 190rr. Proseminar: Topics in World Music**

Catalog Number: 1312

*Richard Wolf*

*Half course (spring term). Th., 10–12. EXAM GROUP: 12, 13*

*Vernacular Musical Traditions of India and Pakistan.* Musics of localized South Asian

traditions, including tribal musics, musical epics and ritual drumming. Attention to conceptions and taxonomies within individual musical traditions in relation to subcontinent. Field or library project required.

*Note:* For music concentrators or by permission of instructor.

**Music 191r. Topics in Medieval and Renaissance Music: Proseminar**

Catalog Number: 2524

*Noël Bisson*

*Half course (fall term). Tu., 10–12. EXAM GROUP: 12, 13*

*English Sacred Music: ca. 1450-1600.* A study of English church music before, during, and after the turbulent period of the reformation. Topics for investigation will include the connections between English and Continental musical styles of the period, the role of music in the changing liturgy, manuscript study, and issues of performance practice. Composers studied will include those represented in the Eton Choirbook, as well as Taverner, Tallis, Sheppard, and Byrd.

*Note:* For music concentrators or by permission of instructor.

*Prerequisite:* Music 51 (may be taken concurrently).

**Music 192r. Topics in Music from 1600–1800: Proseminar**

Catalog Number: 3375

*Dana Gooley*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

*Music in English Society: 1660 - 1800.* This seminar examines musical cultures in English society from the Restoration to the end of the 18th century. We consider the interplay of "high" and "low" stylistic currents, the formation of a privileged musical repertory or canon, the idea of "Englishness" in music, and the place of music in England's imagined relationship to continental Europe. Composers whose music will be studied included Purcell, Corelli, John Gay (*The Beggar's Opera*), Handel, Thomas Arne, and Haydn.

**Music 193r. Topics in Music from 1800 to the Present: Proseminar**

Catalog Number: 3741

*Reinhold Brinkmann*

*Half course (fall term). Th., 1–3. EXAM GROUP: 16, 17*



*20th Century Opera.* Berg: Wozzeck, Weill: Dreigroschenoper, Street Scene, Thomson: Four Saints in Three Acts, Glass/Wilson: Einstein on the Beach.

*Note:* Offered for both graduate credit and undergraduate music concentration credit.

*Prerequisite:* Music 51; Music 154 (may be taken concurrently).

**[Music 194r (formerly Music 190r). Special Topics: Proseminar]**

Catalog Number: 2846 Enrollment: Limited to 15

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

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

[Literature and Arts B-51. First Nights: Five Performance Premieres](#)

[\[Literature and Arts B-54. Chamber Music from Mozart to Ravel\]](#)

[Literature and Arts B-55. Opera: Perspectives on Music and Drama](#)

[Literature and Arts B-65. Music in \*Fin-de-siècle\* Vienna: The Origins of Modernism](#)

[Literature and Arts B-78. Soundscapes: World Music at Home and Abroad](#)

[Literature and Arts B-80. The Swing Era](#)

***Primarily for Graduates***

**[\\*Music Bhf. Exercises in Tonal Writing and Analysis](#)**

Catalog Number: 3045

*John Stewart*

*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 201. Current Methods in Musicology](#)**

Catalog Number: 3973

*Reinhold Brinkmann (fall term) and Richard Wolf (spring term)*

*Full course. Fall: W., 4–6; Spring: M., 2–4. EXAM GROUP: 17, 18*

An introduction to scholarship, drawing upon the history, theoretical frameworks, and the working methods of historical musicology and ethnomusicology. Fall semester focuses on historical musicology and uses Schubert as example (Symphonic fragments, Winterreise). Spring semester focuses on the introduction to the 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:* Either semester may be taken independently by students from other departments with permission of the instructor.

**[Music 203. Primary Musical Sources at Harvard ]**

Catalog Number: 5657

*Christoph Wolff*



*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

A critical examination of manuscript and printed scores, parts, and tablatures, letters and other musical documents from the 14th to the 20th centuries in the Houghton and Isham Libraries.

*Note:* Expected to be given in 2000–01.

**[Music 205. Medieval Notation]**

Catalog Number: 4440

*Thomas Forrest Kelly*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

A survey of Western musical notation to 1400.

*Note:* Expected to be given in 2000–01.

**[Music 206r. Research Methods in Ethnomusicology: Seminar]**

Catalog Number: 6891

*Kay Kaufman Shelemay*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

The transmission of culture: oral, aural, and written. Exploration of transmission from an ethnomusicological perspective, including transmission processes, changing technologies, and cultural settings. Focus on Middle Eastern musical traditions.

*Note:* Expected to be given in 2000–01.

**[Music 207r. Ethnomusicology: Seminar](#)**

Catalog Number: 2149

*Kofi Agawu (Princeton University)*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

*Theories of African Rhythm.* A comparative and cross-cultural approach to theories of rhythm in sub-saharan African music, including a review of major theories in relation to their internal structure, ethnographic data, indigenous perceptions, and representational "pressures" from within the theorist's own culture. Research project required on rhythm in an African repertory of student's choice.

*Note:* Permission of instructor required for undergraduates.

**[Music 208r. Ethnomusicology: Seminar](#)**

Catalog Number: 2232

*Kay Kaufman Shelemay*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

*Music in Jewish Religious and Cultural Life.* Music's role in expressing and maintaining Jewish identity. Research project required.

*Note:* Permission of instructor required for undergraduates.

**[Music 211r. Topics in Medieval Music: Seminar]**

Catalog Number: 4433

*Thomas Forrest Kelly*

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

Topic to be announced.

*Note:* Expected to be given in 2000–01.



**[Music 212r. Chant: Seminar]**

Catalog Number: 4984

*Thomas Forrest Kelly*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Melodies and modes. An introduction to medieval chant and its classification according to the system of eight modes. Reading (in English) from theorists and the study of manuscript scores.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Permission of instructor required for undergraduates.

**Music 213r. Topics in Medieval Polyphony: Seminar**

Catalog Number: 5802

*Thomas Forrest Kelly*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Major repertoires in early polyphony: Winchester, Saint Martial, Notre Dame. The study of liturgical practice, style, notation, and repertory content in early but substantial repertoires.

**\*Music 214r. Renaissance Music: Seminar**

Catalog Number: 7825

*Lewis Lockwood*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 6, 7*

Basic musical trends in the 15th Century: Mass, motet, secular music.

**Music 215r. Baroque: Seminar**

Catalog Number: 6817

*Christoph Wolff*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

A study of the music of J.S. Bach and its reception history to c. 1850. The seminar will prepare a Bach anniversary exhibition scheduled for March, 2000, at Houghton Library.

*Note:* Expected to be omitted in 2000–01.

**[Music 216r. 18th-Century Music: Seminar]**

Catalog Number: 6868

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

Topic to be announced.

*Note:* Expected to be given in 2000–01.

**Music 217r. 19th-Century Music: Seminar**

Catalog Number: 3702

*David Rosen (Cornell University)*

*Half course (fall term). F., 2–4. EXAM GROUP: 7, 8*

*Verdi: Current Issues in Research, Analysis and Criticism.* The formal and expressive conventions of Ottocento opera and their role in Verdi's operas; genetic studies (the operas and their literary models, sketches and revisions); Verdian dramaturgy; performance practice, including staging; the works in their cultural context; critical readings of selected works.

*Note:* Permission of instructor required for undergraduate concentrators.



**Music 218r. 20th Century Music: Seminar**

Catalog Number: 8558

*Reinhold Brinkmann*

*Half course (spring term). W., 4–6. EXAM GROUP: 8, 9*

*Schoenberg in America.*

*Note:* May be taken by undergraduate music concentrators by permission of instructor.

**[Music 219br. 20th Century Music: Seminar]**

Catalog Number: 2275

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

*Note:* Expected to be given in 2000–01.

**[Music 219r (formerly Music 219c). 19th and 20th Century Music: Seminar]**

Catalog Number: 6404

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

*Note:* Expected to be given in 2000–01.

**Music 220ar. History of Music Theory: Seminar**

Catalog Number: 2119

*David E. Cohen*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

*Music Theory from the Italian Renaissance to the French Enlightenment.* History of music theory from the period of the Italian Renaissance (c. 1500) to the earlier treatises of Rameau (1720's). Counterpoint, thoroughbass, triadic harmony. Modes and keys. Speculative theory and acoustics. Influences from Humanism and the Scientific Revolution.

**Music 220br. History of Music Theory: Seminar**

Catalog Number: 1580

*David E. Cohen*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

*Music Theory from Rameau to Riemann.* History of music theory from Rameau in the mid-eighteenth century through Hugo Riemann (c. 1900). Theories of harmony, melody, form, meter, and rhythm, and aesthetics. Influences from contemporary philosophy and science.

**[Music 222ar. Schenkerian Analysis I]**

Catalog Number: 4055

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

*Note:* Expected to be given in 2000–01.

**[Music 222br. Schenkerian Analysis II]**

Catalog Number: 0593

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



Continuation of Music 222ar.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Music 222ar or permission of instructor.

**Music 230ar. Topics in Music Theory I**

Catalog Number: 5712

*David Lewin*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

*Texts and Musical Structures.*

**Music 230br. Topics in Music Theory II**

Catalog Number: 6696

*David Lewin*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 15, 16*

*Texts and Musical Structures.*

**\*Music 261r (formerly \*Music 268r). Composition: Seminar**

Catalog Number: 3326 Enrollment: Limited to 10

*Bernard Rands*

*Full course (indivisible). Hours to be arranged.*

*Note:* Open only to students prepared for work in original composition.

**\*Music 262r (formerly \*Music 269r). Composition: Seminar**

Catalog Number: 4457 Enrollment: Limited to 10

*Mario Davidovsky*

*Full course (indivisible). Hours to be arranged.*

*Note:* Open only to students prepared for work in original composition.

**Music 264r. Electronic Music Composition: Seminar**

Catalog Number: 1939

*Mario Davidovsky*

*Full course (indivisible). Hours to be arranged.*

*Fall:* Technical, perceptual, and aesthetic aspects of usage of electronically generated sounds in music composition. Composition using acoustic instruments in combination with electronic sounds are encouraged. *Spring:* Intensive work in computer music concentrating on the application of traditional electronic techniques in the computer realm. Includes use of UNIX-based software synthesis tools cmix and csound, and the real-time mixing program, RT.

*Prerequisite:* Previous knowledge of electronic music techniques, or permission of instructor.

**[Music 270r. Special Topics]**

Catalog Number: 3727

*Bernard Rands*

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

Topics to be announced.

*Note:* Expected to be given in 2000–01.



**[Music 271r. Fromm Seminar in Composition]**

Catalog Number: 1311

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*Half course (fall term). Tu., 4–6. EXAM GROUP: 18*

*Note: Expected to be given in 2001–02.*

**[Music 272r. Special Topics]**

Catalog Number: 2059

*Jeff Nichols*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

*Carter*

*Note: Expected to be given in 2000–01.*

***Graduate Courses of Reading and Research***

**\*Music 300. Reading and Research for Advanced Students**

Catalog Number: 2504

*Kofi Agawu (Princeton University) 2498 (spring term only), Reinhold Brinkmann 7971, David E. Cohen 1714, Mario Davidovsky 1146, Thomas Forrest Kelly 1324, Robert D. Levin 3482, David Lewin 1238, Lewis Lockwood 7099 (on leave fall term), Jeff Nichols 1456 (on leave 1999-00), Karen Painter 3615 (on leave 1999-00), Bernard Rands 1900, David Rosen (Cornell University) 2502 (fall term only), Kay Kaufman Shelemay 3483 (on leave spring term), Richard 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

*Reinhold Brinkmann 7971, David E. Cohen 1714, Mario Davidovsky 1146, Thomas Forrest Kelly 1324, David Lewin 1238, Lewis Lockwood 7099 (on leave fall term), Jeff Nichols 1456 (on leave 1999-00), Karen Painter 3615 (on leave 1999-00), Bernard Rands 1900, Kay Kaufman Shelemay 3483 (on leave spring term), Richard Wolf 1386, and Christoph Wolff 4532*

Individual work in preparation for the General Examination for the Ph.D. degree.

*Note: May not be counted toward course requirements for Ph.D. degree.*

**\*Music 309. Doctoral Colloquium**

Catalog Number: 2260

*Members of the Department*

*Half course (spring term). Th., 2–4.*

**\*Music 310. Direction of Doctoral Dissertations**

Catalog Number: 1819

*Reinhold Brinkmann 7971, Mario Davidovsky 1146, Thomas Forrest Kelly 1324, Robert D. Levin 3482, David Lewin 1238, Lewis Lockwood 7099 (on leave fall term), Bernard Rands 1900, Kay Kaufman Shelemay 3483 (on leave spring term), and Christoph Wolff 4532*

*Note: May not be counted toward course requirements for the Ph.D. degree.*



# Near Eastern Languages and Civilizations

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Near Eastern Languages and Civilizations*

William A. Graham, Jr., Professor of the History of Religion and Islamic Studies (*Chair*)  
James Alan Armstrong, Lecturer on the Ancient Near East  
Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Culture  
Paul-Alain Beaulieu, Assistant Professor of Assyriology  
Hanan M. Bordin, Preceptor in Yiddish  
J. F. Coakley, Senior Lecturer on Near Eastern Languages and Civilizations  
Ayman A. El-Desouky, Preceptor in Arabic  
William E. Granara, Professor of the Practice of Arabic  
Jo Ann Hackett, Professor of the Practice of Biblical Hebrew and Northwest Semitic Epigraphy  
(*Director of Graduate Studies*)  
Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*on leave fall term*)  
Wolfhart P. Heinrichs, James Richard Jewett Professor of Arabic  
John Huehnergard, Professor of Semitic Philology  
Miri Kubovy, Professor of the Practice of Near Eastern Languages and Civilizations  
James L. Kugel, Harry Starr Professor of Classical and Modern Jewish and Hebrew Literature  
and Professor of Comparative Literature, Director of the Center for Jewish Studies (*on leave  
spring term*)  
Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages (*Head Tutor*)  
Susan G. Miller, Senior Lecturer on Islamic Studies  
Marcus Moseley, Assistant Professor of Jewish Studies  
Dina Porat, Gerard Weinstock Visiting Professor of Jewish Studies (*Tel Aviv University*) (*fall  
term only*)  
James R. Russell, Mashtots Professor of Armenian Studies (*on leave spring term*)  
Richard James Saley, Honorary Associate  
John S. Schoeberlein-Engel, Lecturer on Central Asian Studies  
Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization  
F. Engin Sezer, Associate Professor of Turkish  
P. Oktor Skjaervo, Aga Khan Professor of Iranian  
Lawrence E. Stager, Dorot Professor of the Archaeology of Israel  
Piotr Steinkeller, Professor of Assyriology (*on leave 1999-00*)  
Sinasi Tekin, Senior Lecturer on Turkish  
Wheeler M. Thackston, Jr., Professor of the Practice of Persian and other Near Eastern  
Languages (*on leave spring term*)  
Rina Winkelman, Preceptor in Modern Hebrew



Robert Wisnovsky, Assistant Professor of Islamic Intellectual History (*on leave fall term*)  
Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative Literature (*on leave spring term*)

***Other Faculty Offering Instruction in the Department of Near Eastern Languages and Civilizations***

Gary Anderson, Professor of Hebrew Bible (*Divinity School*)  
Paul D. Hanson, Florence Corliss Lamont Professor of Divinity (*Divinity School*)  
Cemal Kafadar, Vehbi Koc Professor of Turkish Studies  
Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*) (*on leave 1999-00*)  
Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)  
Edward Roger Owen, A. J. Meyer Professor of Middle East History and Director of the Center for Middle Eastern Studies (*on leave fall term*)

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 90a. Near Eastern Mystical Traditions in 19th-Century American Literature and Culture](#)**

Catalog Number: 7077 Enrollment: Limited to 10

*James R. Russell*

*Half course (fall term). M., at 8 p.m.*

The course will consider Zoroastrian, Egyptian, Sufi, Kabbalistic, and Hindu material, and the reception of these religious ideas on the works of Poe, Melville, Thoreau, Emerson, and other writers, with consideration also of utopian and millennial communities and the theosophical movement.

*Note:* This course can function as a Junior Tutorial.

**[\\*Near Eastern Civilizations 91r. Supervised Reading and Research](#)**

Catalog Number: 1132

*Peter Machinist 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

*James R. Russell and members of the Department*

*Half course (fall term). W., 4–6.*

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

*Peter Machinist 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

*Peter Machinist and members of the Department*

*Full course. Hours to be arranged.*

*Note:* Designed for seniors concentrating in Near Eastern Languages and Civilizations.

***Graduate Courses of Reading and Research***

**\*Near Eastern Civilizations 390. Direction of Doctoral Dissertations**

Catalog Number: 3041

*Ali S. Asani 7739, William A. Graham, Jr. 4156, Jo Ann Hackett 2389, Paul D. Hanson (Divinity School) 1394, Jay M. Harris 2266 (on leave fall term), Wolfhart P. Heinrichs 4988, John Huehnergard 7697, James L. Kugel 7575 (on leave spring term), Jon D. Levenson (Divinity School) 2264 (on leave 1999-00), Peter Machinist 2812, Marcus Moseley 1693, James R. Russell 3411 (on leave spring term), Bernard Septimus 7160, F. Engin Sezer 2833, P. Oktor Skjaervo 2869, Lawrence E. Stager 1468, Piotr Steinkeller 7337 (on leave 1999-00), Wheeler M. Thackston, Jr. 4004 (on leave spring term), Robert Wisnovsky 2229 (on leave fall term), and Ruth R. Wisse 3177 (on leave spring term)*

***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

*Paul-Alain Beaulieu*



*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

Surveys the political and cultural history of Mesopotamia from c. 4000 B.C.

*Note:* Expected to be omitted in 2001–02. Offered jointly with the Divinity School as 1115.

**Ancient Near East 101. Introduction to Mesopotamian Archaeology**

Catalog Number: 1245

*James Alan Armstrong*

*Half course (spring term). W., F., 1–2:30. EXAM GROUP: 7, 8*

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 will be on the archaeological data that are used in reconstructions of Mesopotamia's history and its ancient social systems.

*Note:* Expected to be omitted in 2000–01.

**[Ancient Near East 102. Introduction to Mesopotamian Religion]**

Catalog Number: 0486

*Piotr Steinkeller*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 14*

A survey of the sources, data, and principal concerns. A selection of texts are read in translation.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3661.

**[Ancient Near East 105. History of the Ancient Near East: Syria-Palestine (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 2000–01. Offered jointly with the Divinity School as 1118.

**[Ancient Near East 107. History and Historiography in the Ancient Near East]**

Catalog Number: 0665

*Peter Machinist*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 8, 9*

Conceptions of history and the practice of historical writing in the ancient Near East. Discussion based on a comparative study of texts from a variety of cultural traditions, such as the Hittites, Mesopotamia, ancient Israel/Hebrew Bible, and Second Temple Judaism.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1427.

**[Ancient Near East 109r. History and Archaeology: Seminar]**

Catalog Number: 1822

*Lawrence E. Stager, Peter Machinist, and Piotr Steinkeller*

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

Topic for 2000-2001: TBA

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1822.



**[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. This course will have a lab section.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1420.

**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:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 1422. This course will have a lab session TBA.

**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:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 1862. This course will have a lab session TBA.

**Ancient Near East 120. Introduction to the Hebrew Scriptures**

Catalog Number: 6544

*Gary Anderson (Divinity School)*

*Half course (fall term). M., W., at 9. One additional hour TBA. EXAM GROUP: 2*

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 121. History of the Study of the Hebrew Bible: From the Renaissance to the Present: Seminar**

Catalog Number: 8086

*Peter Machinist*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*



Within the framework of a broad survey of Hebrew biblical scholarship since the Renaissance, the course focuses on particular scholars and their representative and seminal works. The central theme is the emergence of a historical-critical understanding of the Bible and the elaborations of and reactions to this.

*Note:* Offered jointly with the Divinity School as 1425.

**[Ancient Near East 122. Biblical Interpretation]**

Catalog Number: 4289

*Paul D. Hanson (Divinity School)*

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

Topic for 2000–01: To be announced.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1413.

**[Ancient Near East 124. Myth and Mythmaking in the Biblical and Ancient Near Eastern World]**

Catalog Number: 6475

*Peter Machinist*

*Half course (spring term). W., F., at 11. One additional hour TBA. EXAM GROUP: 4*

An exploration of the nature and function of myth in the context of the ancient Near East.

Focuses on selected mythic texts from various Near Eastern cultures and considers them in the light of general approaches to myth developed in Western scholarship. Particular attention given to the issue of myth in the Hebrew Bible.

*Note:* Expected to be given in 2000–01. No knowledge of the ancient languages involved is assumed. Offered jointly with the Divinity School as 1128/3410.

**[Ancient Near East 126. History of the Religion of Israel](#)**

Catalog Number: 1672

*Peter Machinist*

*Half course (spring term). W., F., at 3. One additional hour TBA. EXAM GROUP: 8*

The study of ancient Israelite religion and culture in comparative historical context. Topics examined include conceptions of divinity, prophecy, law, kingship, and cult. Through such topics the aim is to see how Israel related to other cultures of the ancient Near East and, thus, of what value the study of the other cultures has in understanding the character of Israelite religion itself.

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 1110.

**[Ancient Near East 127. Prophecy in Ancient Israel]**

Catalog Number: 6739

*Peter Machinist*

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

A study of the phenomenon and history of Israelite prophecy, as recorded in the Hebrew Bible, in the light of prophecy elsewhere in the ancient Near East and in other cultures. Pertinent sociological, literary, and religious issues are explored.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1125.



**[Ancient Near East 128. Jewish Apocalypticism]**

Catalog Number: 6332

*Paul D. Hanson (Divinity School)*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 6, 7*

A study of Jewish apocalyptic movements, from origins in the 6th and 5th centuries B.C.E. down to their flowering in Hellenistic and Roman times. A variety of texts are examined in English translation. Special attention is given to the traditions found in these texts, the origins of those traditions in biblical and extrabiblical sources, and the use of those traditions in the literature under study. Attention also given to comparable phenomena in other ancient cultures. Questions of contemporary theological significance are also raised.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1460.

*Prerequisite:* Ancient Near East 120 or equivalent.

**[Ancient Near East 129. Selected Literature of Second Temple Judaism]**

Catalog Number: 2077

*Jon D. Levenson (Divinity School)*

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

A close critical reading in English of a selection of narrative and wisdom compositions of the late Second Temple period, such as Esther, Qoheleth (Ecclesiastes), Ben Sira (Ecclesiasticus), Daniel, Judith, Tobit 3 and 4 Maccabees, Joseph and Aseneth, and the Wisdom of Solomon. Emphasis on literary and theological analysis.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1426.

*Prerequisite:* An introductory course in the historical critical study of the Hebrew Bible.

**Ancient Near East 131. Readings in the Septuagint**

Catalog Number: 3661

*Richard James 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.

*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 2000–01. 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 (fall term). W., 1–3. EXAM GROUP: 6, 7*

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:* Expected to be omitted in 2001–02. 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 (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Political models found in the Hebrew Bible; the role of biblical traditions in the development of church-state relations in the history of the U.S.; the possibility of a suitable political theology within the context of contemporary religion and politics.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1465/2529.

*Cross-listed Courses*

**[History of Art and Architecture 13h. Foundations of Early Civilization: An Introduction to the Art of Ancient Mesopotamia]**

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

**[Literature and Arts C-37. The Bible and Its Interpreters]**

*Primarily for Graduates*

**[\*Ancient Near East 215r. Problems in the Archaeology of Bronze and Iron Age Levant: Seminar]**

Catalog Number: 2960

*Lawrence E. Stager*

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

Topic for 2000–01: To be announced.

*Note:* Expected to be given in 2000–01.

**[Ancient Near East 236. Biblical Theology: Seminar](#)**

Catalog Number: 7022

*Paul D. Hanson (Divinity School)*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

An examination of resources within the Bible for the construction of contemporary political theology.

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 1801/2471.

*Prerequisite:* Ancient Near East 120 or equivalent.

*Cross-listed Courses*



[History of Art and Architecture 135m. Ancient Egyptian Art and Architecture](#)  
[History of Art and Architecture 234. Representation of the Environment in Ancient Egyptian Art](#)

*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*

**\*Ancient Near East 320. Reading and Research in Ancient Mesopotamian Civilization**

Catalog Number: 5678

*John Huehnergard 7697, Peter Machinist 2812, and Piotr Steinkeller 7337 (on leave 1999-00)*

**\*Ancient Near East 330. Reading and Research in Biblical Studies**

Catalog Number: 1524

*Gary Anderson (Divinity School) 1771, Jo Ann Hackett 2389, Paul D. Hanson (Divinity School) 1394, James L. Kugel 7575 (on leave spring term), Jon D. Levenson (Divinity School) 2264 (on leave 1999-00), Peter Machinist 2812, and Lawrence E. Stager 1468*

*Postbiblical Jewish Studies*

See also below under Aramaic, Hebrew, and Yiddish.

*For Undergraduates and Graduates*

**[Jewish Studies 110. Modern Jewish Religious Movements]**

Catalog Number: 0214

*Jay M. Harris*

*Half course (spring term). M., W., at 12. EXAM GROUP: 5*

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 2000–01. Offered jointly with the Divinity School as 3681

**[Jewish Studies 111. Modern Jewish Thought](#)**

Catalog Number: 5461

*Jay M. Harris*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

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:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 3682.



**Jewish Studies 113. Pre-State Israel, 1933-1948, vis-à-vis the British Mandate and Germany's Rule in Europe: Problems of Structure, Leadership, and Zionist Self-Images**

Catalog Number: 5735

*Dina Porat (Tel Aviv University)*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

This course introduces the student to the 15 formative years of pre-state Israel, 1933-1948: from the rise of the Nazi party to power which had an immediate impact on European Jewry and the Yishuv, the Hebrew community in then Palestine, to the establishment of the state of Israel.

**Jewish Studies 114. Modern Hebrew Literature in Translation**

Catalog Number: 0343

*Marcus Moseley*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Traces the development of modern Hebrew literature from the period of the Jewish enlightenment (Haskalah), through the period of cultural “renaissance” in Jewish Eastern Europe (Tehiyah) in the late 19th and the early 20th centuries, to the literature of contemporary Israel. Where appropriate, reading of the English translations will be accompanied by study of the Hebrew text. Authors include Mendele the Bookseller (S. Y. Abramovich), H. N. Bialik, Saul Tschernichowsky, Amos Oz, A. B. Yehoshua.

*Note:* Offered jointly with the Divinity School as 3685.

**Jewish Studies 116. Messianism, Mysticism and Magic in Modern Jewish Literature**

Catalog Number: 5229

*Marcus Moseley*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

The aim of the present course is to trace the transmigrations of Jewish mystical and messianic motifs within the modern literary context. Literature by Jews in non-Jewish languages and in Hebrew and Yiddish will be considered. Authors to be studied include Sholem Aleichem, Isaac Beshevis Singer, Sh. Ansky, Jacob Wasserman, Walter Benjamin. All texts will be in English translation.

*Note:* Offered jointly with the Divinity School as 3687.

**[Jewish Studies 117. Religious Elements in Modern Jewish Poetry]**

Catalog Number: 5465

*Marcus Moseley*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

This course will examine aspects of continuity and discontinuity between modern Jewish poetry and the texts of traditional Judaism. We shall focus upon texts written in Hebrew and Yiddish and English. All foreign-language texts will be taught in English translation. Poets to be included in this survey: H.N. Bialik, H. Tchernikowsky, Uri Zvi Greenberg, Yankev Glatstein, Allen Ginsberg, and Leonard Cohen.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3689.

***Cross-listed Courses***



[Comparative Literature 103r. Literature and Politics: The Case of the Holocaust]  
[Comparative Literature 104. Jewish Autobiography from the Renaissance to the 20th Century](#)

[Comparative Literature 166. The Comic Tradition in Jewish Culture]

[Foreign Cultures 56. Jewish Life in Eastern Europe]

[History 1090. History of Jews and Judaism in the Ancient World]

[History 1150. The Jews in Muslim and Christian Spain](#)

[History 1585. Jews in Modern Times: From the French Revolution to the Emergence of Israel]

[Literature and Arts A-48. The Modern Jewish Experience in Literature](#)

*Primarily for Graduates*

[\\*Jewish Studies 200r. Guided Readings in Jewish History](#)

Catalog Number: 4478

*Jay M. Harris*

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

*Graduate Courses of Reading and Research*

[\\*Jewish Studies 300. Reading and Research in Postbiblical Jewish Studies](#)

Catalog Number: 1544

*Jay M. Harris 2266 (on leave fall term), James L. Kugel 7575 (on leave spring term), Bernard Septimus 7160, and Ruth R. Wisse 3177 (on leave spring term)*

*Early Iranian Civilizations*

See also below under Arabic, Aramaic, and Iranian.

[Early Iranian Civilizations 102. Old Iranian Religion](#)

Catalog Number: 5408

*P. Oktor Skjaervo*

*Half course (spring term). F., 12–2. EXAM GROUP: 5, 6*

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., 12–2. EXAM GROUP: 5, 6*

Introduction to and readings in Iranian Manicheism (on the basis of translated texts).

*Note:* Offered jointly with the Divinity School as 3580.

[[Early Iranian Civilizations 104. The Zoroastrian Religion](#)]

Catalog Number: 2996

*James R. Russell*

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



A survey of the pre-Islamic religion of the Iranian and Armenian peoples, based upon the Gathaas of Zarathustra, the Old Persian inscriptions, Pahlavi texts, and materials of surrounding countries. The survival of the Faith amongst the Parsis of India.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3585.

### ***Islamic Civilizations***

See also below under Arabic, Iranian, and Turkish.

#### ***For Undergraduates and Graduates***

#### **Islamic Civilizations 120. The City in North African History**

Catalog Number: 0686

*Susan G. Miller*

*Half course (fall term). Th., 2–4.*

A survey of the city in Maghribi history from 1500 to the present, with the emphasis on the interaction of urban form and social praxis—the city as a religious space, performance/ritual space, domestic and monumental space. Topics include: the Islamic city debate; city/state relations; “traditional” society and municipal authority; the Maghribi city through Western eyes; the politics of colonial design; modernity and urban change; the city and memory; the post-colonial city in popular literature.

*Note:* Expected to be omitted in 2000–01.

#### **[Islamic Civilizations 121. North Africa, 1500 to the Present]**

Catalog Number: 6224

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

An initiation to North African (Maghribi) history, surveying the evolution of relations between state and society from the late medieval period to the present and emphasizing the specificity of the North African experience. Topics include: Maghribi space and society in the medieval literature; saint worship and sultanic authority; society viewed through the literature of captivity; the 19th century encounter with the West; race and caste in the colonial era; the Algerian revolution in essay, film and fiction; post-colonial political change.

*Note:* Expected to be given in 2000–01.

#### **Islamic Civilizations 124. Central Asian Culture and Society**

Catalog Number: 3927 Enrollment: Limited.

*John S. Schoeberlein-Engel*

*Half course (spring term). W., 2–4, and an additional hour to be arranged. EXAM GROUP: 8, 9*

The course explores the diversity and continuity in contemporary Central Asian culture and society and their historical roots. After building a basis of knowledge of the pre- and early-modern history of the region and of its contemporary political context and institutions, the course will approach Central Asian culture, social structure and everyday life from a variety of angles. These will include perspectives available in various types of literature on the region, including the travel accounts of travelers to the region from pre-modern to recent time, indigenous literary folklore traditions, 19th-century orientalist scholarship, and contemporary scholarly approaches.



The course will draw on ethnographic accounts to develop a rich picture of the social meaning and cultural context of ways of life (from the historical caravan trade and pastoral nomadism to contemporary collective farm and urban life), community rituals, social institutions, religious practices, moral sensibilities and aesthetic traditions.

*Note:* Intended primarily for advanced undergraduates and graduate students; some background in the Near East and/or the former Soviet Union desirable.

**[Islamic Civilizations 125. History and Culture of Islamic Peoples of the Former Soviet Union]**

Catalog Number: 0646 Enrollment: Limited.

*John S. Schoeberlein-Engel*

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

Themes in the history of cultural change, from prior to Russian expansion into Muslim lands until the post-Soviet period. The course encompasses territories falling under Russian dominion by the 19th century that are inhabited by peoples which are culturally more akin to Asia and the Islamic Middle East than to Europe: Central Asia, the Caucasus, and southern Russia. Themes include the background of Iranian, Turkic and Islamic culture, problems of induced cultural change (Russification/Europeanization/modernization), social transformation under the establishment and dissolution of Russian rule and the Communist system, the institutionalization of national identities, and changing family and community organization.

*Note:* Expected to be given in 2000–01. Intended primarily for graduates and advanced undergraduates; some background in the Near East and/or the Soviet Union desirable.

**[Islamic Civilizations 145 (formerly Arabic 145). Islamic Philosophy and Theology]**

Catalog Number: 0292

*Robert Wisnovsky*

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

An introduction to some of the philosophical and theological problems that have preoccupied Muslim intellectuals from the 8th century AD to the present. Topics to be covered include theodicy and God's attributes, politics and prophecy, psychology and epistemology, natural philosophy and metaphysics. Points of conflict between philosophers and theologians will be examined in detail.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

**[Foreign Cultures 28. The Religion and Culture of Islam]**

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

**[History 1877a. History of the Near East, 600–1055]**

**[History 1877b. History of the Near East, 1055–1517: Conference Course]**

**[History 1878a. Ottoman State and Society I (1300–1550)]**

**[History 1878b. Ottoman State and Society II \(1550–1920\)](#)**

**[History 1884. Introduction to Archival Research in Ottoman History: Proseminar]**

**[History 1889. Transmission of Traditional Islamic Learning in the Middle East from the Beginning of Islam to the Present](#)**

**[Religion 1551. For the Love of God and His Prophet: Literary and Artistic Expressions of**



**Muslim Devotional Life]**

**Religion 1555. Introduction to Islamic Mysticism: The Sufi Tradition**

**[\*Religion 1585. Islam in South Asia: Seminar]**

*Primarily for Graduates*

**\*Islamic Civilizations 200a. Approaches to Islamic Studies: Proseminar**

Catalog Number: 5918

*Cemal Kafadar*

*Half course (fall term). M., 4–6. EXAM GROUP: 9*

Interdisciplinary introduction for all first-year graduate students in Islamic subjects. Explores selected “classic” works and problems in diverse fields basic to Islamic studies. Format involves biweekly discussion meetings with rotating guest faculty resource persons in Islamic subjects.

**\*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:* Open to qualified undergraduates.

*Prerequisite:* Introductory coursework on Islam, Religion 1585 or equivalent.

***Graduate Courses of Reading and Research***

**\*Islamic Civilizations 300. Reading and Research in Islamic Civilizations**

Catalog Number: 1963

*Ali S. Asani 7739, William A. Graham, Jr. 4156, Wolfhart P. Heinrichs 4988, Wheeler M. Thackston, Jr. 4004 (on leave spring term), and Robert Wisnovsky 2229 (on leave fall term)*

**\*Islamic Civilizations 350. Reading and Research in Ottoman History and Literature**

Catalog Number: 4084

*Sinasi Tekin 2353*

***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*).

*Note:* Expected to be given in 2000–01.

**Armenian Studies 102. Armenian Civilization**

Catalog Number: 6070

*James R. Russell*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

An introduction to the history, traditions, religion, and literature of the Armenian people from the earliest times to the Middle Ages.

*Note:* Expected to be omitted in 2000–01. No knowledge of Armenian is required.

**Armenian Studies 200r. Guided Readings in Armenian Studies**

Catalog Number: 8105

*James R. Russell*

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

***Cross-listed Courses***

***Graduate Courses of Reading and Research***

**\*Armenian Studies 300. Reading and Research in Armenian Studies**

Catalog Number: 1740

*James R. Russell 3411 (on leave spring term)*

***Akkadian and Sumerian***

See also above under Ancient Near Eastern and Biblical Studies.

***Akkadian***

***For Undergraduates and Graduates***

**Akkadian A (formerly Akkadian 230a, and 230b). Elementary Akkadian**

Catalog Number: 4891

*Paul-Alain Beaulieu*

*Full course (indivisible). M., W., F., at 9. EXAM GROUP: 2*

Introduction to the fundamentals of Akkadian grammar and the most commonly encountered Old Babylonian and Neo-Assyrian cuneiform signs.

**Akkadian 120. Intermediate Akkadian**

Catalog Number: 3724

*John Huehnergard (fall term) and Peter Machinist (spring term)*



*Full course (indivisible). Tu., 2–4. EXAM GROUP: 16, 17*

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**Akkadian 140a. Akkadian Historical Texts**

Catalog Number: 3737

*Paul-Alain Beaulieu*

*Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8*

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**Akkadian 140b. Akkadian Historical Texts**

Catalog Number: 4748

*Paul-Alain Beaulieu*

*Half course (spring term). M., 2–5. EXAM GROUP: 7, 8, 9*

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 141r. Akkadian Myths and Epics]**

Catalog Number: 6930

*Peter Machinist*

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

*Note:* Expected to be given in 2000–01.

**[Akkadian 142. Akkadian Hymns and Prayers]**

Catalog Number: 6387

*Paul-Alain Beaulieu*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 15, 16, 17*

Readings from the various genres of Akkadian hymns and prayers, with particular emphasis on the genre of *shuilla* prayers. In the course of the semester 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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 143. Neo-Babylonian Archival Texts]**

Catalog Number: 7434

*Paul-Alain Beaulieu*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 7, 8, 9*

Readings from letters and legal and administrative documents dated to Neo- and Late Babylonian periods (c. 750–100 B.C.). The goal of the course is to learn how to use these documents as sources for the culture and social and economic history of Babylonia in that period.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 144. Akkadian Divination Texts]**

Catalog Number: 6734

*Piotr Steinkeller*



*Half course (spring term). Hours to be arranged.*  
*Note:* Expected to be given in 2000–01.

**[Akkadian 145. Akkadian Incantations and Rituals]**

Catalog Number: 6533

*Paul-Alain Beaulieu*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 148. Akkadian Letters]**

Catalog Number: 0975

*John Huehnergard*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Akkadian A.

**[Akkadian 149. Akkadian Legal and Economic Texts]**

Catalog Number: 6703

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 150. Akkadian Historiographic Texts]**

Catalog Number: 2417

*Peter Machinist*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 153. Old Akkadian]**

Catalog Number: 8334

*Piotr Steinkeller*

*Half course (fall 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 2000–01.

*Prerequisite:* Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

**[Akkadian 154a. Peripheral Akkadian]**

Catalog Number: 2416

*Piotr Steinkeller*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 7, 8, 9*

*Note:* Expected to be given in 2001–02.

*Prerequisite:* Two full courses in Akkadian.



**[Akkadian 155r. Akkadian Historical Grammar and Dialectology]**

Catalog Number: 0232

*John Huehnergard*

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

Topic for 2000–01: To be announced.

*Note:* Expected to be given in 2001–02.

*Prerequisite:* Two full courses in Akkadian.

*Primarily for Graduates*

**[Akkadian 200r. Readings in Akkadian: Seminar]**

Catalog Number: 2970

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2000–01.

**[Akkadian 210ar (formerly Near Eastern Languages 294a). Mesopotamian History: Seminar]**

Catalog Number: 8072

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2000–01.

**[Akkadian 210br. Mesopotamian History: Seminar]**

Catalog Number: 6737

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2001–02.

***Graduate Courses of Reading and Research***

**\*Akkadian 300. Akkadian Language and Literature**

Catalog Number: 2233

*Paul-Alain Beaulieu 3708 (fall term only), John Huehnergard 7697, Peter Machinist 2812, and Piotr Steinkeller 7337 (on leave 1999-00)*

***Sumerian***

***For Undergraduates and Graduates***

**[Sumerian A. Elementary Sumerian]**

Catalog Number: 5260

*Piotr Steinkeller*

*Full course. Tu., Th., at 12. EXAM GROUP: 14*

Introduction to the Sumerian language with emphasis on grammatical structure.

*Note:* Expected to be given in 2000–01.



**Sumerian 120. Intermediate Sumerian**

Catalog Number: 2573

*Paul-Alain Beaulieu and assistant*

*Full course. M., W., at 11. EXAM GROUP: 4*

*Prerequisite:* Knowledge of basic Sumerian grammar, vocabulary, and cuneiform script.

**[Sumerian 140. Sumerian Historical Texts]**

Catalog Number: 2956

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2000–01.

**[Sumerian 141. Sumerian Myths and Epics]**

Catalog Number: 3736

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2001–02.

**[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 2000–01.

**[Sumerian 146. Sumerian Religious Literature]**

Catalog Number: 2605

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2000–01.

**[Sumerian 149. Sumerian Legal and Economic Texts]**

Catalog Number: 8820

*Piotr Steinkeller*

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

*Note:* Expected to be given in 2000–01.

**[Sumerian 160. Sumerian and Akkadian Bilingual Texts]**

Catalog Number: 5027

*Paul-Alain Beaulieu*

*Half course (fall term). Th., 2–5. EXAM GROUP: 16, 17, 18*

*Note:* Expected to be given in 2000–01.

***Primarily for Graduates***

**[Sumerian 200r. Readings in Sumerian: Seminar]**

Catalog Number: 7496



*Piotr Steinkeller*

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

*Note: Expected to be given in 2000–01.*

### ***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 (on leave 1999-00)*

### ***Arabic***

See also Islamic Civilizations.

### ***For Undergraduates and Graduates***

#### [\*\*Arabic A. Elementary Arabic\*\*](#)

Catalog Number: 5773

*William E. Granara and assistant*

*Full course. Section I&II: M. through F., at 9; Section III&IV: M. through F., at 10. EXAM*

*GROUP: Fall: 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: Exam date to be announced.*

#### [\*\*Arabic 110. Colloquial Levantine Arabic\*\*](#)

Catalog Number: 6732

*Wheeler M. Thackston, Jr.*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

A basic course in the spoken Arabic of the Levant (Lebanon, Syria, Palestine). Principles of grammar and syntax and foundation for conversation.

*Note: Expected to be omitted in 2000–01. Some knowledge of Arabic helpful but not required.*

#### [\*\*Arabic 120a. Intermediate Classical Arabic\*\*](#)

Catalog Number: 1106

*William E. Granara and assistant*

*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 will 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.

*Prerequisite:* Arabic A or equivalent.

### **Arabic 120b. Intermediate Classical Arabic**

Catalog Number: 0597

*William E. Granara and assistant*

*Half course (spring term). M., through F., at 10. EXAM GROUP: 3, 12*

Continuation of Arabic 120a.

### **Arabic 121a. Intermediate Modern Arabic**

Catalog Number: 0973

*Ayman A. El-Desouky and assistant*

*Half course (fall term). M., through F., at 11. EXAM GROUP: 4, 13*

A continuation of Elementary Arabic with equal emphasis on speaking, reading, oral and aural skills. Selections from contemporary Arabic media will be introduced and will serve as bases for reading and conversation.

### **Arabic 121b. Intermediate Modern Arabic**

Catalog Number: 0685

*Ayman A. El-Desouky and assistant.*

*Half course (spring term). M., through F., at 11. EXAM GROUP: 4, 13*

A continuation of Arabic 121a.

### **Arabic 130a. Advanced Classical Arabic**

Catalog Number: 4591

*William E. Granara*

*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, *hadith*, *sira*, and *tafsir* literature; directed readings and textual analysis; review of classical Arabic morphology and syntax.

### **Arabic 130b. Advanced Classical Arabic**

Catalog Number: 2964

*Robert Wisnovsky*

*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 secular prose and poetry.

### **Arabic 131a. Advanced Modern Arabic**

Catalog Number: 0739

*Ayman A. El-Desouky and assistant.*



*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

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.

**Arabic 131b. Advanced Modern Arabic**

Catalog Number: 0697

*Ayman A. El-Desouky and assistant.*

*Half course (spring term). M., W., F., at 1, and two additional hours to be arranged. EXAM GROUP: 7*

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.

**Arabic 140. The Qur'an**

Catalog Number: 6021

*William A. Graham, Jr.*

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

Introduction to and selected readings from the Qur'an and Arabic exegesis.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Arabic 120b or equivalent.

**[Arabic 141. Introduction to the Hadith]**

Catalog Number: 0705

*William A. Graham, Jr.*

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

Introduction to and selected readings in the Hadith literature.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Arabic 120b or permission of instructor.

**[Arabic 144. Sources for the Study of Islamic History]**

Catalog Number: 3450

*Roy Mottahedeh*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Elementary knowledge of Arabic.

**[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 Arabic, 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 2000–01.

*Prerequisite:* Two years of Arabic or equivalent.

**Arabic 150r. History of Arabic Literature**

Catalog Number: 7759

*Wolfhart P. Heinrichs*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Overview of Classical Arabic literature, including reading and discussion of selected texts.

*Note:* Expected to be omitted in 2000–01. Knowledge of Arabic an advantage, but not required.

**[Arabic 155. Society and Culture in Modern Arabic Fiction]**

Catalog Number: 2102

*William E. Granara*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A study of cultural and social issues in contemporary Arab society as reflected in modern fiction. Attention 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 gender roles. Readings will include works by Tayeb Salih, Nagib Mahfouz, Muhammad Choukri, Hanan Al-Shaikh, and Sahar Khalifeh.

*Note:* No knowledge of Arabic required.

**Arabic 160r. Readings in Arabic Historians, Geographers and Biographers**

Catalog Number: 5617

*Roy Mottahedeh*

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

***Primarily for Graduates***

**Arabic 240r. Classical Arabic Philology**

Catalog Number: 5920

*Wolfhart P. Heinrichs*

*Full course (indivisible). Tu., 2–4. EXAM GROUP: 16, 17*

Arabic philology, including discussion of difficult grammatical problems, introduction to manuscript and editorial work, and readings from the *'ulum al-lugha* (fall) and *'ulum al-din* (spring).

*Note:* This constitutes the fourth and final year of the Classical Arabic track.

**Arabic 241a. Modern Arabic Literature**

Catalog Number: 3309

*William E. Granara*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

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.

*Prerequisite:* Advanced proficiency in Arabic.



**Arabic 241b. Modern Arabic Literature**

Catalog Number: 6399

*Ayman A. El-Desouky*

*Half course (spring term). Th., 2:30–5. EXAM GROUP: 16, 17*

A continuation of Arabic 241a.

**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 1999–00: Kitab al-Aghani of Abu 'l-Faraj al-Isbahani.

*Note:* Expected to be omitted in 2000–01.

**[Arabic 248r. Medieval Arabic Writings on Grammar and Literary Theory: 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 (or with literature, depending on the interests of those who wish to take the course). Discussion of selected topics on the basis of text readings and recent secondary literature.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Arabic.

**Arabic 249r. Arabic Philosophical Texts: Seminar**

Catalog Number: 3572

*Robert Wisnovsky*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Selected readings from *falsafa* literature. Topic for 1999–00: To be announced.

*Prerequisite:* Two years of Arabic or equivalent.

**[Arabic 250r. Arabic Theological Texts: Seminar]**

Catalog Number: 7849

*Robert Wisnovsky*

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

Selected readings from *kalam* literature. Topic for 2000–01: To be announced.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Two years of Arabic or equivalent.

***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, Roy Mottahedeh 1454 (on leave fall term), Wheeler M. Thackston, Jr. 4004 (on leave spring term), and Robert Wisnovsky 2229 (on leave fall term)*



## ***Aramaic***

### ***For Undergraduates and Graduates***

See also Ancient Near East and Biblical Studies, Jewish Studies, and Early Iranian Civilizations.

#### **[Aramaic B. Targumic Aramaic]**

Catalog Number: 4720

*Gary Anderson (Divinity School)*

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

Basic grammar of the Targum Onqelos, with selected readings. In addition, there will be some comparative use of Targum Neophyti and a consideration of the genre and function of the literary form “Targum.”

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 4060.

#### **Aramaic C (formerly Aramaic Ca/Cb). Elementary Syriac**

Catalog Number: 3494

*J. F. Coakley*

*Full course. M., W., F., at 10. EXAM GROUP: 3*

Basic Syriac grammar and syntax, with selected readings from the Syriac Bible and other early texts.

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 4109.

#### **[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 2000–01. Offered jointly with the Divinity School as 4112.

*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 2000–01. Offered jointly with the Divinity School as 4113.

*Prerequisite:* Aramaic C or equivalent.

#### **Aramaic 128. Introduction to Turoyo**

Catalog Number: 3747

*Wolfhart P. Heinrichs*

*Half course (spring term). To be arranged.*

*Note:* Expected to be omitted in 2000–01.

*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

*Jo Ann Hackett 2389 and John Huehnergard 7697*

***Armenian***

See also Armenian Studies.

***For Undergraduates and Graduates***

**[Armenian A. Elementary Classical Armenian]**

Catalog Number: 5476

*James R. Russell*

*Full course. Hours to be arranged.*

Introduction to classical Armenian grammar and reading of selected texts.

*Note:* Expected to be given in 2000–01.

**[Armenian B. Elementary Modern Eastern Armenian]**

Catalog Number: 7168

*James R. Russell*

*Full course. Hours to be arranged.*

Introduction to the spoken and literary language of the Republic of Armenia.

*Note:* Expected to be given in 2000–01.

**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 2000–01.

*Prerequisite:* Armenian A.



***Primarily for Graduates***

**Armenian 240r. Readings in Classical Armenian**

Catalog Number: 6603

*James R. Russell*

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

**Armenian 241r. Readings in Modern Armenian Literature**

Catalog Number: 8746

*James R. Russell*

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

***Graduate Courses of Reading and Research***

**\*Armenian 300. Armenian Language and Literature**

Catalog Number: 0240

*James R. Russell 3411 (on leave spring term)*

***Egyptian***

***For Undergraduates and Graduates***

**Egyptian A. Introduction to Middle Egyptian**

Catalog Number: 2224

*John Huehnergard*

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

Introduction to the classical Middle Egyptian language and script. An overview of Egyptian grammar with emphasis on syntax as well as a thorough introduction to the hieroglyphic writing system.

***Ethiopic***

***For Undergraduates and Graduates***

**[Ethiopic A. Introduction to Classical Ethiopic (Ge'ez)]**

Catalog Number: 7667

*John Huehnergard*

*Full course (indivisible). Hours to be arranged.*

*Note:* Expected to be given in 2001–02. Offered jointly with the Divinity School as 4090.

**Ethiopic 120ar. Readings in Classical Ethiopic (Ge'ez) Texts I**

Catalog Number: 0231

*John Huehnergard*

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

*Prerequisite:* Ethiopic A.



**[Ethiopic 120br. Readings in Classical Ethiopic (Ge'ez) Texts II]**

Catalog Number: 0390

*John Huehnergard*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Ethiopic A.

***Graduate Courses of Reading and Research***

**\*Ethiopic 300. Ethiopian Semitic Language and Literature**

Catalog Number: 5135

*John Huehnergard 7697*

***Hebrew***

See also Ancient Near East 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. M., W., F., at 1. EXAM GROUP: 6*

A thorough and rigorous introduction to Biblical Hebrew, with emphasis on grammar, in preparation for translation of biblical prose. Daily preparation and active class participation mandatory. Readings in the Hebrew Bible/Old Testament begin in the first semester and increase in complexity throughout the year.

*Note:* Offered jointly with the Divinity School as 4010.

**[Classical Hebrew C. Introduction to Rabbinic Hebrew]**

Catalog Number: 0301

*Jon D. Levenson (Divinity School)*

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

A survey of the grammar of the Hebrew of the Mishnah and other works of rabbinic Judaism combined with exercises in reading and interpreting texts, with the goal of building vocabulary, the ability to read unpointed materials, and familiarity with rabbinic modes of expression.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 4036.

*Prerequisite:* Classical Hebrew A or Modern Hebrew B.

**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*



Review of grammar; readings in prose books.

*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., W., F., at 2. EXAM GROUP: 7*

*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*

*Half course (fall term). W., at 11, F., at 1. EXAM GROUP: 4, 6*

*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

*John Huehnergard*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

*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 2000–01.

*Prerequisite:* Classical Hebrew 130, or equivalent.

### **Classical Hebrew 238r. Advanced Study of Historical Hebrew Grammar**

Catalog Number: 9997

*Jo Ann Hackett and John Huehnergard*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Reading of major sections of the Biblical corpus with emphasis on historical linguistic issues.

*Prerequisite:* Classical Hebrew 130b and either Classical Hebrew 138 or Semitic Philology 140.

### **Modern Hebrew B. Elementary Modern Hebrew**

Catalog Number: 4810

*Miri Kubovy and Rina Winkelman*

*Full course (indivisible). Section I: M. through F., at 9; Section II: M. through F., at 12; Section III: M. through F., at 3. EXAM GROUP: Fall: 2, 11; Spring: 2*

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.”

*Note:* Offered jointly with the Divinity School as 4015.

### **Modern Hebrew 120a. Intermediate Modern Hebrew I**

Catalog Number: 1711

*Miri Kubovy and assistant*

*Half course (fall term). Section I: M. through F., at 1. Section II: M. through F., at 2. EXAM GROUP: 6, 15*

For students with basic understanding of modern Hebrew grammar and some experience in reading. Emphasis on rapid reading of contemporary newspapers, magazines, short stories, and poetry.

*Note:* Conducted primarily in Hebrew. Offered jointly with the Divinity School as 4040.

*Prerequisite:* Modern Hebrew B or passing of special departmental placement test.

### **\*Modern Hebrew 120b. Intermediate Modern Hebrew II**

Catalog Number: 2563

*Miri Kubovy and assistant*

*Half course (spring term). Section I: M. through F., at 1. Section II: M. through F., at 2. EXAM GROUP: 6, 15*

Continuation of Modern Hebrew 120a. Selected readings from 20th-century Hebrew literature prose, poetry, and drama. 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. Offered jointly with the Divinity School as 4041.

### **Modern Hebrew 130r (formerly Modern Hebrew 130a). Advanced Modern Hebrew: Contemporary Israeli Culture**

Catalog Number: 8127

*Miri Kubovy and assistant*

*Half course (fall term). W., 7–9 p.m.*

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.

*Note:* Conducted in Hebrew. All texts will be read in Hebrew. Offered jointly with the Divinity School as 4045.

*Prerequisite:* Modern Hebrew 120a, 120b or equivalent.

### **Modern Hebrew 131r. Advanced Modern Hebrew: Hebrew of the Media: Press, TV, and Radio**

Catalog Number: 1940

*Rina Winkelman*

*Half course (spring term). M., W., 2:30–4.*

Will introduce students of Hebrew language and literature courses to a central aspect of the language as practiced in the media, both orally and in writing, on radio and television broadcasts



and in newspapers and magazines. In Hebrew, more than in other languages, the language of the media differs considerably: it uses terminology, vocabulary and syntactic structures which are unique to these fields, which both express and influence meaningful trends in culture and society. Samples will be presented from Israeli TV, radio and daily newspapers.

*Note:* Conducted in Hebrew. Offered jointly with the Divinity School as 4047.

*Prerequisite:* Modern Hebrew 120a, 120b, or equivalent.

## ***Literature and History Courses***

### ***For Undergraduates and Graduates***

#### **[Hebrew 142. The Dead Sea Scrolls ]**

Catalog Number: 6753

*James L. Kugel*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A survey of the main texts discovered at Qumran and their importance for an overall understanding of Judaism toward the end of the biblical period.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1431..

*Prerequisite:* A reading knowledge of biblical Hebrew.

#### **Hebrew 150a (formerly Hebrew 150). Introduction to Rabbinic Literature**

Catalog Number: 7629

*Bernard Septimus*

*Half course (spring term). M., 2–4.*

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). M., 2–4. EXAM GROUP: 7, 8*

This course is 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. No prior knowledge of Aramaic is assumed.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Hebrew 150a or permission of the instructor.

#### **[Hebrew 153. Midrash Seminar]**

Catalog Number: 3397

*James L. Kugel*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

An examination of rabbinic interpretations of the Bible and their relationship to other early exegetical traditions. Focuses on a series of specific midrashic themes and motifs found in a



variety of rabbinic texts and seeks to understand their original exegetical function as well as their development and history of transmission.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1840.

*Prerequisite:* A good reading knowledge of Mishnaic Hebrew.

### **Hebrew 156. Readings in Medieval Judeo-Arabic**

Catalog Number: 1363

*Bernard Septimus*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

*Prerequisite:* Reading knowledge of Arabic and Hebrew.

### **[Hebrew 165. Maimonides' *Book of Knowledge* and its Medieval Critics]**

Catalog Number: 3393

*Bernard Septimus*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

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 other works by Maimonides; the role of the *Book of Knowledge* in the Maimonidean Controversy of the 13th century.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A good reading knowledge of Hebrew.

### **[Hebrew 168. Medieval Hebrew Poetry]**

Catalog Number: 2715

*Bernard Septimus*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 16, 17*

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 2000–01.

*Prerequisite:* Reading knowledge of Hebrew.

### **[Hebrew 169. The Bavli and the Yerushalmi]**

Catalog Number: 2226

*Jay M. Harris*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

A comparative study of the Babylonian and “Jerusalem” Talmuds. Emphasis on comparing their relationship to antecedent sources, their use of *midrash*, and their rhetorical patterns. Also studied is the historical destiny of these two works in the medieval and modern periods.

*Note:* Expected to be given in 2000–01.

### **Hebrew 171. The Problem of Language in Medieval Jewish Thought**

Catalog Number: 7205

*Bernard Septimus*



*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

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 omitted in 2001–02.

*Prerequisite:* A good reading knowledge of Hebrew.

### **Hebrew 174. Political Thought: Late Antiquity through the Middle Ages**

Catalog Number: 8693

*Bernard Septimus*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

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.

*Prerequisite:* A good reading knowledge of Hebrew.

### **[Hebrew 176. Aristotle's *Ethics* in Medieval Jewish Thought]**

Catalog Number: 0805

*Bernard Septimus*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A good reading knowledge of Hebrew.

### **[Hebrew 184. Jewish Bible Commentary in the Modern Period]**

Catalog Number: 5236

*Jay M. Harris*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A study of Jewish Bible commentaries in the late 18th and 19th centuries that seeks to introduce the student to the wide range of Jewish Bible commentary in this period. Commentators to be studied include the Gaon of Vilna, Moses Mendelssohn, Moses Sofer, Meir Leibush Malbim, Samuel David Luzatto, and Naftali Zvi Yehudah Berlin, each studied within the appropriate cultural context.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3688.

### **[Hebrew 194. Literature and Ideology in Jewish Eastern Europe]**

Catalog Number: 2015

*Marcus Moseley*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

An examination of the nexus of ideology and literary aesthetics in the secular discourse of Eastern European Jews. Starting with the poetics of the early ideologues of the Haskalah in late 18th-century Berlin, varying formulations of the role and nature of literature will be studied against the background of the changing socio-cultural circumstances of the Jews in Eastern Europe, culminating in consideration of the echoes of these literary debates in contemporary Israel. Readings will be in Hebrew and Yiddish, including D. Sadan, A. Kovner, Bal-



makhshoves (Eliashev), M. Y. Berdichevsky, Y. Ratosh.

*Note:* Expected to be given in 2000–01.

**[Hebrew 195. The Literature of the Modern Hebrew Renaissance (Tehiyah)]**

Catalog Number: 2298

*Marcus Moseley*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

An introduction to the leading prose writers and poets of the “Renaissance” period of modern Hebrew literature. The origins and validity of the notion that the period from the 1890’s to the 1917 revolution marked a Hebraic cultural renaissance in Jewish Eastern Europe will also be examined. Equal attention will be paid to belletristic prose, poetry and publicistic writings.

Writers include H. N. Bialik, S. Tschernikowsky, Y. H. Brenner, D. Frishman, U. N. Gnessin.

*Note:* Expected to be given in 2000–01. Primary readings are in Hebrew; lectures are in English.

***Cross-listed Courses***

**[Comparative Literature 103r. Literature and Politics: The Case of the Holocaust]**

**[Comparative Literature 104. Jewish Autobiography from the Renaissance to the 20th Century](#)**

**[History 1585. Jews in Modern Times: From the French Revolution to the Emergence of Israel]**

**[Literature and Arts C-37. The Bible and Its Interpreters]**

**[Religion 1212a. Judaism: The Liturgical Year]**

**[Religion 1212b. Judaism: The Liturgical Year]**

***Primarily for Graduates***

**[\\*Hebrew 200r. Problems in the Literature, History, and Religion of Israel: Seminar](#)**

Catalog Number: 3265

*Peter Machinist and Lawrence E. Stager; Paul D. Hanson (Divinity School), Gary Anderson (Divinity School), Jo Ann Hackett, and James L. Kugel.*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Topic for 1999–00: Icon and Idol in Israel and Other Ancient Near Eastern Cultures. Designed as an exegesis seminar, this course will cover background matters such as the history of the 5th–6th centuries B.C.E., neo-Babylonian and Persian religious traditions and archaeological data.

*Note:* Expected to be omitted in 2000–01. Intended primarily for doctoral students. Offered jointly with the Divinity School as 1810.

**[Hebrew 209r. Literature of Israel: Seminar](#)**

Catalog Number: 1326

*James L. Kugel*

*Half course (fall term). W., 1–3.*

Topic for 1999–00: The Book of Psalms

*Note:* Expected to be omitted in 2000–01. Offered jointly with the Divinity School as 1824.

*Prerequisite:* Good reading knowledge of biblical Hebrew.



**Hebrew 210r. Literature of Israel: Seminar**

Catalog Number: 6322 Enrollment: Limited to 10

*Paul D. Hanson (Divinity School)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Topic for 1999-00: Haggai, Zechariah, and Malachi. Close exegetical study, utilizing text-, literary-, and form-criticism, with attention to the location of these books in their Judean and Persian historical settings and their place in the development of the history of Israelite religion.

*Note:* Expected to be omitted in 2001–02. Offered jointly with the Divinity School as 1820.

*Prerequisite:* Reading knowledge of biblical Hebrew.

**[Hebrew 215r. Readings in the Book of Biblical Antiquities and Other Second Temple Texts: Seminar]**

Catalog Number: 4083

*James L. Kugel*

*Half course (fall term). M., 3–5. EXAM GROUP: 9*

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Knowledge of biblical Hebrew required; Latin appreciated but not required.

**[Hebrew 216. Hebrew Language and Texts of the Post-Exilic Period]**

Catalog Number: 2137

*James L. Kugel*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines a series of Hebrew texts extending from the Babylonian exile to early rabbinic writings, with attention both to the linguistic character of the texts surveyed and to the world of ideas exhibited therein. Texts include parts of Ezekiel; Chronicles; Ecclesiastes; Ben Sira; Qumran documents; Mishnah. Latter part of the course specifically designed to articulate transition to Mishnaic Hebrew.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1823.

*Prerequisite:* 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 (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Introduction to the use of medieval Jewish biblical commentaries as a resource for the modern exegete. Primary readings include a Torah chapter with the comments of several of the following figures: Rashi, Rashbam, Ibn Ezra, Radaq, Chizquni, Ramban, Bachya ben Asher, Seforno, and Abarbanel. Discusses relationship of the hermeneutical presuppositions of these figures to modern forms of biblical study.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1836.

*Prerequisite:* Three years of college-level Hebrew (any period) and a strong control of Hebrew grammar.

**[Hebrew 218. Joseph and Esther: Seminar]**

Catalog Number: 0880

*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 the literary design and religious message of each work and on the influence of the story of Joseph upon the Book of Esther.

*Note:* Expected to be given in 2001–02. Offered jointly with the Divinity School as 1802.

*Prerequisite:* Three years of Hebrew or the equivalent.

**[Hebrew 223. The Book of Jubilees and Ancient Biblical Interpretation]**

Catalog Number: 1813

*James L. Kugel*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

An in-depth examination of one of the most important texts of the post-exilic period.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1432.

*Prerequisite:* A reading knowledge of biblical Hebrew. (Also, welcome but not required: reading knowledge of Ge'ez and Aramaic.)

**[Hebrew 224. Readings in the Testaments of the Twelve Patriarchs and Other Second Temple Texts.](#)**

Catalog Number: 4565

*James L. Kugel*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

A study centering on one mysterious document of the Second Temple period and the light it can shed on Jewish religious piety and practice toward the end of the biblical period.

*Prerequisite:* A reading knowledge of biblical Hebrew. (Also, welcomed but not required: reading knowledge of Greek and Aramaic.)

**[Hebrew 225. Books of Leviticus and Numbers]**

Catalog Number: 8843

*Gary Anderson (Divinity School)*

*Half course (spring term). Th., 8–10. EXAM GROUP: 10, 11*

This course will cover issues of sacrifice, purity, and food laws in the priestly source.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1806.

*Prerequisite:* Three years of Hebrew

**[Hebrew 230. Midrash: The Figure of Abraham: Seminar]**

Catalog Number: 0203

*Jon D. Levenson (Divinity School)*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

A close reading in Hebrew of some rabbinic midrashim centering on the figure of Abraham.

Emphasis on the acquisition of the textual skills necessary for studying midrash and on the role of Abraham in rabbinic theology. Comparison with other primary sources about Abraham from Second Temple Judaism and the New Testament, presented in English.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1803/3871.

*Prerequisite:* Sound reading knowledge of Hebrew (any period).

**[Hebrew 231. Genesis 12-23: Seminar]**

Catalog Number: 1109



*Jon D. Levenson (Divinity School)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15*

A close critical reading of Genesis 12-23 in Hebrew. Emphasis on literary design and religious message of this section of the story of Abraham and his family. Students will make presentations about historical, literary, and theological aspects of the material.

*Note:* Expected to be given in 2000–01. 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 245. Early Biblical Interpretation: Seminar]**

Catalog Number: 6731

*James L. Kugel*

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

Biblical interpretation from its beginnings within the Hebrew Bible itself to evidence of its continuing development as found in ancient Bible translations, biblical apocrypha and pseudepigrapha, commentaries, sermons, liturgical poetry, and other Jewish and Christian writings of late antiquity.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1804.

*Prerequisite:* A good reading knowledge of biblical Hebrew.

**[Hebrew 250. Jewish Autobiography]**

Catalog Number: 4097

*Marcus Moseley*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Jewish autobiographical texts from the Renaissance to the late 20th century will be examined in the light of contemporary theoretical and critical perspectives. Authors include Y. A. Modena, Y. Emden, M. L. Lilienblum, M. A. Gunzberg, Y. L. Peretz, Mendele Mokher Sefarim (S. Y. Abramovich), S. Y. Agnon. All primary readings will be in Hebrew and Yiddish; lectures are in English.

*Note:* Expected to be given in 2000–01.

***Graduate Courses of Reading and Research***

**\*Hebrew 300. Classical Hebrew Language and Literature**

Catalog Number: 7831

*Jo Ann Hackett 2389, Paul D. Hanson (Divinity School) 1394, John Huehnergard 7697, James L. Kugel 7575 (on leave spring term), Peter Machinist 2812, and Lawrence E. Stager 1468*

**\*Hebrew 350. Postbiblical Hebrew Language and Literature**

Catalog Number: 4408

*Jay M. Harris 2266 (on leave fall term), James L. Kugel 7575 (on leave spring term), and Bernard Septimus 7160*

***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*

*Full course (spring term). M., W., 3–5. EXAM GROUP: 8, 9*

Introduction to Old Persian.

*Note:* Expected to be omitted in 2000–01.

**[Iranian B. Introduction to Avestan]**

Catalog Number: 3936

*P. Oktor Skjaervo*

*Full course (indivisible). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

**[Iranian Cb. Middle Persian II]**

Catalog Number: 1696

*P. Oktor Skjaervo*

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

Readings in Middle Persian (Pahlavi or Manichean Middle Persian/Parthian).

*Note:* Expected to be given in 2000–01.

**[Iranian 120. Sorani Kurdish]**

Catalog Number: 4915

*Wheeler M. Thackston, Jr.*

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

Introduction to Sorani Kurdish.

*Note:* Expected to be given in 2000–01.

**[Iranian 121r. Readings in Sorani Kurdish]**

Catalog Number: 3037

*Wheeler M. Thackston, Jr.*

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

*Note:* Expected to be given in 2000–01.

**[Iranian 122. Luri]**

Catalog Number: 2664

*Wheeler M. Thackston, Jr.*

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

Introduction to the language of Luristan.

*Note:* Expected to be given in 2000–01.



**Iranian 142br. Avestan III**

Catalog Number: 7835

*P. Oktor Skjaervo*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Introduction to Old Avestan.

*Note:* Expected to be omitted in 2000–01.

**Iranian 143a. Middle Persian III**

Catalog Number: 9136

*P. Oktor Skjaervo*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Advanced readings in Middle Persian (Pahlavi or Manichean Middle Persian/Parthian).

**Iranian 144a. Eastern Middle Iranian I**

Catalog Number: 1542

*P. Oktor Skjaervo*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

Introduction to Sogdian.

*Prerequisite:* Knowledge of at least one Iranian language.

**Iranian 144b. Eastern Middle Iranian II**

Catalog Number: 7834

*P. Oktor Skjaervo*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*

Readings in Sogdian.

***Cross-listed Courses***

**[Linguistics 221r. Workshop in Indo-European]**

***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 (on leave spring term)*

***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. (fall term), P. Oktor Skjaervo (spring term) and assistant 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. 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

*P. Oktor Skjaervo and assistant*

*Half course (spring term). M., W., F., at 9. 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

*Mohammad Reza Shafi-Kadkani (Tehran University)*

*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 (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

### **Persian 151. Persian Mystical Poetry**

Catalog Number: 6664

*Mohammad Reza Shafi-Kadkani (Tehran University)*

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

The topic of this course is the origin and development of Persian mystical poetry. The historical development of this subject will be considered ranging from the 4th century C.E. to the age of Rumi.

*Prerequisite:* Advanced level of reading in Persian.



***Graduate Courses of Reading and Research***

**\*Persian 300. Persian Language and Literature**

Catalog Number: 6962

*Wheeler M. Thackston, Jr. 4004 (on leave spring term) and Roy Mottahedeh 1454 (on leave fall term)*

***Semitic Philology***

***For Undergraduates and Graduates***

**[Semitic Philology 140. Introduction to the Comparative Study of Semitic Languages](#)**

Catalog Number: 8602

*John Huehnergard*

*Half course (spring term). Tu., Th., at 11, /iplus an additional hour Th at 12./n. EXAM GROUP: 13*

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Knowledge of two Semitic languages.

**[Semitic Philology 151. Introduction to Northwest Semitic Epigraphy](#)**

Catalog Number: 2858

*Jo Ann Hackett*

*Half course (fall term). Th., 10–12. EXAM GROUP: 12, 13*

Readings in Hebrew and Phoenician inscriptions with an introduction to methods and techniques of Northwest Semitic palaeography, and attention to problems of historical grammar.

*Note:* Expected to be omitted in 2000–01.

*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 2000–01.

*Prerequisite:* Semitic Philology 140 or equivalent.

**[Semitic Philology 170. Old South Arabian](#)**

Catalog Number: 8199

*John Huehnergard*

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

Grammar and readings in Old South Arabian inscriptions.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Semitic Philology 140 and knowledge of either Classical Ethiopic or Classical Arabic.



*Cross-Listed Courses*

**Linguistics 172. Topics in Semitic Syntax**

*Primarily for Graduates*

**[Semitic Philology 200r. Comparative Semitic Grammar: Seminar]**

Catalog Number: 0168

*John Huehnergard*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

*Note:* Expected to be given in 2000–01.

*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). W., 11–1. EXAM GROUP: 4, 5*

Topic for 1999–00: Phoenician and Punic Texts.

*Prerequisite:* Semitic Philology 151.

**[Semitic Philology 230. The Early History of Northwest Semitic]**

Catalog Number: 3959

*John Huehnergard*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

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.

*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, and John Huehnergard 7697*

***Swahili***

See also above under Near Eastern Civilizations; Islamic Civilizations.

*For Undergraduates and Graduates*

**Swahili A (formerly Swahili Aab). Elementary Swahili**

Catalog Number: 6439

*Ali S. Asani and assistant*

*Full course (indivisible). M., W., F., at 11. EXAM GROUP: 4*



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 120ar. Readings in Swahili**

Catalog Number: 5026

*Ali S. Asani and assistant*

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

*Prerequisite:* Swahili Aab or equivalent.

### **Swahili 120br. Readings in Swahili**

Catalog Number: 4270

*Ali S. Asani and assistant*

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

*Prerequisite:* Swahili 120ar or equivalent.

## ***Turkish***

See also above under Near Eastern Civilizations; Islamic Civilizations.

### ***For Undergraduates and Graduates***

### **Turkish A. Elementary Modern Turkish**

Catalog Number: 2527

*F. Engin Sezer*

*Full course (indivisible). M., through F., at 10. EXAM GROUP: 3, 12*

Emphasis on all aspects of Turkish grammar toward developing a solid foundation for speaking, listening, reading, writing, and vocabulary skills.

*Note:* Expected to be omitted in 2000–01. Not open to auditors.

### **Turkish 120a. Intermediate Turkish I**

Catalog Number: 4009

*F. Engin Sezer*

*Half course (fall term). M., through F., at 9. EXAM GROUP: 2, 11*

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

*F. Engin Sezer*

*Half course (spring term). M., through F., at 9. EXAM GROUP: 2, 11*

Studies in argumentative and literary prose.



*Note:* Not open to auditors.

*Prerequisite:* Turkish 120a or equivalent.

### **Turkish 121a (formerly Turkish 121). Elementary Uzbek**

Catalog Number: 3006

*Wheeler M. Thackston, Jr. and assistant*

*Half course (fall term). Hours to be arranged; four meetings per week.*

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**

Catalog Number: 7303

*Wolfhart P. Heinrichs and assistant*

*Half course (spring term). Hours to be arranged; four meetings per week.*

Continuation of Turkish 121a.

*Note:* Some knowledge of Modern Turkish or other Turkic language helpful but not required.

### **Turkish 130a. Advanced Turkish I**

Catalog Number: 6964

*F. Engin Sezer*

*Half course (fall term). M., through F., at 11. EXAM GROUP: 4, 13*

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:* Not open to auditors.

*Prerequisite:* Turkish 120b or equivalent.

### **Turkish 130b. Advanced Turkish II**

Catalog Number: 4354

*F. Engin Sezer*

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

Studies in literary and idiomatic prose through readings, discussions, and writing of short analytical papers.

*Note:* Not open to auditors.

*Prerequisite:* Turkish 130a or equivalent.

### **Turkish 140. Introduction to Ottoman**

Catalog Number: 1906

*Sinasi Tekin*

*Full course. Hours to be arranged.*

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; and one year of Arabic or Persian desirable.



**Turkish 142. Introduction to Ottoman Palaeography and Diplomatic Correspondence**

Catalog Number: 0239

*Sinasi Tekin*

*Full course. Hours to be arranged.*

Calligraphic, orthographic, and stylistic characteristics of Ottoman legal and diplomatic correspondence through reading and analysis of primary sources.

*Prerequisite:* Turkish 140 or equivalent.

**Turkish 146. Old Turkish**

Catalog Number: 2929

*Sinasi Tekin*

*Full course. Hours to be arranged.*

Writing and structure of Old Turkish through readings in Orkhon inscriptions and Old Uyghur Buddhist and Manichaean texts.

*Prerequisite:* Knowledge of one Turkish language.

**Turkish 147a. Advanced Uzbek**

Catalog Number: 3846

*Wheeler M. Thackston, Jr. and assistant*

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

**Turkish 147b. Advanced Uzbek**

Catalog Number: 4820

*Wolfhart P. Heinrichs and assistant.*

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

Continuation of Turkish 147a.

**[Turkish 148a. Chaghatay: Readings in Literary Sources]**

Catalog Number: 1712

*Wheeler M. Thackston, Jr.*

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

Readings in literary and historical sources from the 15th and 16th centuries, including Mir Ali-Sher Navai and the *Baburnama*.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Knowledge of elementary Turkish and/or Persian.

**Turkish 148b. Chaghatay: Poetry**

Catalog Number: 6843

*Sinasi Tekin and assistant*

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

Language and style of Chaghatay poetry through selected readings from the post-Karakhanid period until the 16th century.

*Prerequisite:* Turkish A, Persian A, or equivalents.

**[Turkish 149. Introduction to Modern Turkish Literature]**

Catalog Number: 2156



*F. Engin Sezer and assistant*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

A survey of 20th-century Modern Turkish poetry and prose through selected readings of novels, short stories and poetry in Turkish and/or in translation. Emphasis on both literary appreciation and themes such as the impact of modernization and social change on new forms and content.

*Note:* Expected to be given in 2000–01. Some knowledge of Turkish is helpful but not necessary.

### **Turkish 150. Turkic Languages**

Catalog Number: 9106

*F. Engin Sezer*

*Half course (fall term). Th., at 2, Tu., 2–4. EXAM GROUP: 16, 17*

General and specific linguistic properties and the interrelationship of Turkic languages, old and new. The nature of linguistic evidence provided by the historical written sources.

*Note:* Not open to Auditors.

*Prerequisite:* Knowledge of one Turkic language and at least one half-course in historical linguistics is desirable, which may be taken concurrently.

### **Turkish 151. Issues in Turkic Linguistics**

Catalog Number: 2046

*F. Engin Sezer*

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

A critical analysis of the (Ural-) Altaic theory and the claims that relate Turkic to various other languages. The sound changes such as lambdacism and rhotacism, the Volga shift, shortening of long vowels, etc., with extensive specific reference to sound systems of the relevant languages.

*Note:* Not Open to Auditors.

*Prerequisite:* Turkish 150 or equivalent

*Primarily for Graduates*

### **Turkish 240. Readings in Ottoman Sources**

Catalog Number: 2180

*Sinasi Tekin and assistant*

*Full course (indivisible). Hours to be arranged.*

Codicological analysis of handwritten documents from the 13th to the 18th century in photocopies and in the originals from a private collection. Analysis of textual styles of different genres.

*Prerequisite:* Turkish 140 or equivalent.

*Graduate Courses of Reading and Research*

**\*Turkish 300 (formerly \*Turkish 385 and \*Turkic 385). Turkish Languages and Literatures**

Catalog Number: 7702

*F. Engin Sezer 2833 and Sinasi Tekin 2353*

***Yiddish***



See also above under Near Eastern Civilizations: Jewish Studies.

***For Undergraduates and Graduates***

**Yiddish A. Elementary Yiddish**

Catalog Number: 4623

*Hanan M. Bordin*

*Full course (indivisible). M., W., F., at 10. EXAM GROUP: 3*

Introduction to the Yiddish language, and to the culture of Ashkenazic Jewry.

*Note:* For students with little or no knowledge of Yiddish.

**Yiddish B. Intermediate Yiddish**

Catalog Number: 6147

*Hanan M. Bordin*

*Full course (indivisible). M., W., F., at 11. EXAM GROUP: 4*

Further develops the four basic communication skills. Includes selected readings from modern Yiddish literature.

*Prerequisite:* Yiddish A or equivalent.

**Yiddish Ca. Advanced Yiddish I**

Catalog Number: 8331

*Hanan M. Bordin*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

**[Yiddish Cb. Advanced Yiddish II]**

Catalog Number: 8968

*Hanan M. Bordin*

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

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Yiddish Ca or equivalent.

**[Yiddish 102r. Modern Yiddish Literature I]**

Catalog Number: 4013

*Ruth R. Wisse*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Topic for 2000-01: TBA

*Note:* Expected to be given in 2000–01. Readings will be available in Yiddish and English.

Lectures will be in English. Extra weekly section (one hour) in Yiddish.

**Yiddish 103r. Modern Yiddish Literature II**

Catalog Number: 8269

*Ruth R. Wisse*

*Half course (fall term). Tu., 2–4. There will be an additional one-hour section for students who wish to read works in the original. EXAM GROUP: 16, 17*

Topic for 1999-2000: Imagining Self and Nation. Studies some of the most influential and



controversial Yiddish works of the inter-war period that tried to fashion a new, autonomous modern Jewish culture. Authors include H. Leivick, Israel Rabon, the three Singers -- Israel Joshua, Isaac Beshevis, and Esther Kreitman; Jacob Glatstein; genres include drama, fiction, poetry, and film. The course welcomes students with no prior exposure to Yiddish, and offers additional hours to those who will be reading works in the original. This is the second part of a survey of Yiddish masterworks, the first half of which will be given in 2000-2001.

*Note:* Expected to be omitted in 2000–01.

**[Yiddish 105. Yiddish Language and Linguistic Theory]**

Catalog Number: 7146

*David Braun*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Yiddish, spoken among Ashkenazic Jews (i.e., Jews of Western and Central European and, later, Eastern European origin) for the past millenium, 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, many of which are not common to other Germanic languages. We will look at a wide range of Yiddish data and will read and discuss some of the more recent analytical attempts to understand these phenomena.

*Note:* Expected to be given in 2000–01.

***Cross-listed Courses***

**[Comparative Literature 103r. Literature and Politics: The Case of the Holocaust]**

***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 1999-00: Memory, Autobiography and Diary. A study of the changing function of personal naratives from Gluckl of Jameln to ghetto diarists during World War II.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Yiddish.

**[Yiddish 202r. Yiddish Literature: Seminar]**

Catalog Number: 3854

*Ruth R. Wisse*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Topic for 2000–01: To be announced.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Yiddish.

**[Yiddish 204. An Introduction to Yiddish Literary Criticism]**

Catalog Number: 7662



*Marcus Moseley*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

Traces the development of modern Yiddish literary criticism from the late 19th to the mid-20th century. The focus will be upon varying, and often quite opposing, critical responses to the three “classic” writers of modern Yiddish literature: Mendele Moykher Sforim, Sholem Aleichem and Y. L. Peretz. Critics to be studied include Bal Makshoves, Sh. Nigur, M. Weinreich, M. Erik, M. Viner, Y. Y. Trunk, N. Oyslender, M. Litvakov.

*Note:* Expected to be given in 2000–01. Primary readings are in Yiddish; lectures are in English.

### ***Graduate Courses of Reading and Research***

#### **\*Yiddish 300. Yiddish Language and Literature**

Catalog Number: 7833

*Ruth R. Wisse 3177 (on leave spring term)*

## Oceanography

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

#### ***Faculty of the Committee on Oceanography***

Michael B. McElroy, Gilbert Butler Professor of Environmental Studies (*Chair*)

Heinrich D. Holland, Harry C. Dudley Professor of Economic Geology

James J. McCarthy, Alexander Agassiz Professor of Biological Oceanography in the Museum of Comparative Zoology

Allan R. Robinson, Gordon McKay Professor of Geophysical Fluid Dynamics

Daniel P. Schrag, John L. Loeb Associate Professor of the Natural 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*

Christine M. Korsgaard, Arthur Kingsley Porter Professor of Philosophy (*Chair*) (*on leave 1999-00*)

K. Anthony Appiah, Professor of Afro-American Studies and of Philosophy

Warren Goldfarb, Walter Beverly Pearson Professor of Modern Mathematics and Mathematical Logic (*Acting Chair*)

Melissa Barry, Assistant Professor of Philosophy

Michael Blake, Assistant Professor of Philosophy

Stanley Cavell, Walter M. Cabot Professor of Aesthetics and the General Theory of Value (Emeritus)

William G. Demopoulos, Visiting Professor of Philosophy (*University of Western Ontario*) (*spring term only*)

Susan Kay Hahn, Visiting Assistant Professor of Philosophy (*Johns Hopkins University*) (*fall term only*)

Richard G. Heck, Jr., Professor of Philosophy (*Head Tutor*)

Richard Moran, Professor of Philosophy

Robert Nozick, Pellegrino University Professor

Derek Parfit, Visiting Professor of Philosophy (*All Souls College, Oxford*) (*spring term only*)

Charles D. Parsons, Edgar Pierce Professor of Philosophy (*Director of Graduate Studies*)

James Pryor, Assistant Professor of Philosophy (*on leave 1999-00*)

Hilary Putnam, Cogan University Professor

Thomas M. Scanlon, Jr., Alford Professor of Natural Religion, Moral Philosophy, and Civil Polity

Susanna Claire Siegel, Assistant Professor of Philosophy

Alison Simmons, John L. Loeb Associate Professor of Philosophy

Raphael Graham Woolf, Assistant Professor of Philosophy

### *Other Faculty Offering Instruction in the Department of Philosophy*

Scott Brewer, Professor of Law (*Law School*)

Cornel West, Alphonse Fletcher, Jr., University Professor and Professor of Afro-American Studies (*FAS*) and Professor of the Philosophy of Religion (*Divinity School*)

### *Primarily for Undergraduates*

#### [Philosophy 3. Introduction to the Problems of Philosophy](#)

Catalog Number: 1996

*K. Anthony Appiah*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

The aim of this course is to introduce some central philosophical topics and to demonstrate, through careful discussion of them, the characteristics of contemporary philosophical work. This



is not an historical course, but we will discuss the work of a small number of canonical Western philosophers, including Plato, Descartes, Locke, Frege and Wittgenstein. The main readings will be of contemporary philosophy. Topics will include: mind and body, belief and knowledge, language and meaning, science.

**Philosophy 8. Introduction to Early Modern Philosophy**

Catalog Number: 8947

*Alison Simmons*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

A survey of early modern 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, causation, freedom, and human knowledge.

**Philosophy 15. Political Obligation and Civil Disobedience**

Catalog Number: 2507

*Susanna Claire Siegel*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

An examination of political obligations: what they are; what makes them reasonable; what limits, if any, they have; in what sorts of communities they apply. Texts will be both philosophical and historical.

**\*Philosophy 97hf. Tutorial — Sophomore Year**

Catalog Number: 1669

*Richard G. Heck, Jr.*

*Half course (throughout the year). Hours to be arranged.*

*Note: Required of all sophomore concentrators.*

**\*Philosophy 98hf. Tutorial — Junior Year**

Catalog Number: 5533

*Richard G. Heck, Jr.*

*Half course (throughout the year). Hours to be arranged.*

*Note: Required of all junior concentrators.*

**\*Philosophy 99. Tutorial — Senior Year**

Catalog Number: 4396

*Richard G. Heck, Jr., 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 60. Reason and Morality**

**Moral Reasoning 62. Reasoning In and About the Law**

**Quantitative Reasoning 22. Deductive Logic**



***For Undergraduates and Graduates***

**Philosophy 102. Aristotle**

Catalog Number: 6236

*Raphael Graham Woolf*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

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 107. Plato's Republic: Proseminar**

Catalog Number: 3115

*Raphael Graham Woolf*

*Half course (fall term). F., 12–2. EXAM GROUP: 5, 6*

An examination of the earliest and most famous attempt by a philosopher to give an account of an ideal society. Plato's views on justice and happiness, the soul and the city, and the metaphysical and epistemological underpinnings of his ethical and political theories.

**Philosophy 120. The Rationalists**

Catalog Number: 2512

*Alison Simmons*

*Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15*

A study of some of the major works of Descartes, Spinoza, Malebranche and Leibniz, with primary emphasis on their contributions to metaphysics and epistemology.

**Philosophy 129. Kant's Critique of Pure Reason**

Catalog Number: 0614

*Charles D. Parsons*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Aims at a general understanding of the first *Critique* as a whole. An examination of the work's central metaphysical and epistemological doctrines, with particular attention to its historical context.

*Prerequisite:* Philosophy 8 strongly recommended.

**Philosophy 132. The Young Hegel**

Catalog Number: 3768

*Susan Kay Hahn (Johns Hopkins University)*

*Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5*

Introduction to the dialectical thought and method of the young Hegel. Focuses on the place of his early writings in the development of his mature thought, beginning with his youthful reflections on love, labor, enslavement, and his first critical engagement with Kant's ethics. Other topics: Hegel's early relation to skepticism, the place of historicism in the development of his thought, how his theory of recognition and social conflict evolved out of his early period. Finally, our investigations will lead to reading the core chapters of the *Phenomenology of Spirit*, beginning with some background in the early logic.

**Philosophy 134. Four Jewish Philosophers**

Catalog Number: 5486

*Hilary Putnam**Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16*

Selected writings by Maimonides, Rosenzweig, Buber and Levinas (as well as Wittgenstein's *Lectures on Rational Belief*) in order to think about the question: how do the concerns of religion and philosophy relate to and differ from one another? What happens to philosophy when it is in the service of religious transformation, and to religion when it becomes philosophical? Although these concerns will be explored in the context of the Jewish tradition, their wider relevance will also be considered.

*Note:* Offered jointly with the Divinity School as 3679.**Philosophy 135. Pragmatism and Neo-Pragmatism**

Catalog Number: 1517

*Hilary Putnam and Cornel West**Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5*

An examination of the variety of pragmatisms in the past and present, exploring the American origins—especially its New England and Harvard beginnings—of pragmatism, as well as its most recent versions. Readings include Emerson, Peirce, James, Dewey, Rorty, Cavell, Putnam and West.

*Note:* Offered jointly with the Divinity School as 2452**Philosophy 139. Phenomenology**

Catalog Number: 7467

*Charles D. Parsons**Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

The background of Husserl's phenomenology in the philosophy of Brentano. Husserl's approach to intentionality and meaning. Selected further topics in his philosophy, such as truth, perception, the phenomenological method, the phenomenological reduction and the question of idealism, and the "life-world." Brief consideration of some of the later development of phenomenology if time permits.

**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.

*Note:* Expected to be omitted in 2000–01.*Prerequisite:* Some knowledge of deductive logic.**\*Philosophy 145z. Philosophy of Language: Demonstratives: Proseminar**

Catalog Number: 7508

*Susanna Claire Siegel**Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*



An examination of demonstrative reference and of related mental states. Topics to include formal theories of demonstrative reference; proposals about what Fregean Senses of demonstratives might be; arguments that there are no such things.

**Philosophy 146 (formerly Philosophy 146r). Philosophy of Language**

Catalog Number: 3795

*William G. Demopoulos (University of Western Ontario)*

*Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14*

A study of the contributions to the philosophy of language by the two great founders of the contemporary approach to the subject, Gottlob Frege and Bertrand Russell; how their theories of meaning and reference departed from earlier approaches and how they developed in tandem with the emergence of modern logic. A review of prominent criticisms that have been urged against ideas emanating from Frege and Russell and an exploration of some alternative theories suggested by these criticisms.

**Philosophy 147. Meaning and Communication**

Catalog Number: 1407

*Richard G. Heck, Jr.*

*Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12*

Language is used for communication. In part, this is because words mean things and because we understand them. What is it to understand what someone says? What is it for words to mean what they do? How do we know what our words mean? And how does this knowledge enable us to use language as we do? Readings taken from Davidson, Dummett, Evans, Grice, Higginbotham, Putnam, Soames, Strawson, Wright and others.

**\*Philosophy 151z. Philosophy of Psychology: Proseminar**

Catalog Number: 4062

*Robert Nozick*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

An examination of psychologists' theories (and data) about positive psychological traits, experiences and functioning; of philosophers' theories about the constituents of a good or a flourishing life; and of ways to integrate these related theories.

**Philosophy 154. Non Scientific Knowledge**

Catalog Number: 6141

*Hilary Putnam*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Knowledge outside the mature sciences: knowledge of language, knowledge and the arts, knowledge in the social sciences, and moral and religious knowledge.

**[Philosophy 156. Philosophy of Mind]**

Catalog Number: 3677

*Richard G. Heck, Jr.*

*Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6*

An introductory course focusing on the development of the subject in the 20th century. Approaches to the mind-body problem, including dualism, behaviorism, type- and token-identity



theories, functionalism and their contemporary heirs, considering how these approaches address problems about consciousness, intentional content, and the mental causation of action. Readings from Armstrong, Block, the Churchlands, Dennett, Fodor, Kim, Lewis, Putnam, Ryle and many others.

*Note:* Expected to be given in 2000–01.

**\*Philosophy 157z. Perception: Proseminar**

Catalog Number: 6037

*Susanna Claire Siegel*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

An overview of some contemporary problems and theories of consciousness and perceptual experience, which will also introduce many central issues in the philosophy of mind.

**\*Philosophy 160. Wittgenstein and Philosophy of Mind: Proseminar**

Catalog Number: 1630

*Richard Moran*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Wittgenstein's conception of philosophical psychology. Topics include 1) the nature of psychological concepts and psychological discourse; 'expressivism' and related issues; 2) the role of 'grammar' and 'criteria' and the question of realism or naturalism about the psychological; 3) privacy and incommunicability; other minds and skepticism about them; the 'inner and the outer'; 4) the nature of the self and subjectivity; states of consciousness, mental processes, sensations, 5) meaning and understanding.

**\*Philosophy 164z. Metaphysics: Transcendental Arguments: Proseminar**

Catalog Number: 1047

*Susanna Claire Siegel*

*Half course (spring term). F., 12–2. EXAM GROUP: 5, 6*

An examination of P. F. Strawson's *Individuals* and related psychological and philosophical literature.

**\*Philosophy 165. Metaphysics of Color: Proseminar**

Catalog Number: 8508

*Alison Simmons*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

A consideration of such questions as: What is color? What is the relation between the appearance and the reality of color? Is color subjective or objective? Is it an intrinsic or a relational property of objects? Why should a philosopher (as opposed to a scientist) think she has anything to say about the matter? And how does the science of color bear on the philosophy of color?

**[Philosophy 168. Kant's Ethical Theory]**

Catalog Number: 8361

*Christine M. Korsgaard*

*Half course (fall 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:* Expected to be given in 2000–01.

**Philosophy 169. Morality and Action**

Catalog Number: 8138

*Thomas M. Scanlon, Jr.*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

Various views of the rational and motivational basis of action and their implications for the nature of moral requirements, moral appraisal and moral responsibility.

**\*Philosophy 170. The Nature of Normativity: Proseminar**

Catalog Number: 1053 Enrollment: Limited to 20

*Melissa Barry*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

An examination of influential contemporary accounts of the rational authority ("normativity") of moral claims. Topics to be discussed include the nature of normativity, the possibility of an objective account of normativity in a naturalistic framework, realism and antirealism, and reasons for action.

**Philosophy 171 (formerly Philosophy 177). Political Philosophy**

Catalog Number: 2266

*Michael Blake*

*Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6*

A critical introduction to issues of state authority, justice, liberty and equality through readings of major works in political philosophy, including the writings of such theorists as Hobbes, Locke, Mill, Marx, and Rawls.

**\*Philosophy 173. Philosophy of Law: Proseminar**

Catalog Number: 1068

*Michael Blake*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

An examination of some central questions in the philosophy of law, with primary focus on the private law of property and contract and consideration of the nature, justification and appropriate scope of such institutions.

**Philosophy 174. Recent Ethical Theory**

Catalog Number: 5525

*Melissa Barry*

*Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14*

An examination of the strengths and weaknesses of consequentialist and deontological ethical theories. We will consider the foundations of these views, their underlying conceptions of actions and persons, and their resulting conceptions of moral reasoning.

*Prerequisite:* at least one course in philosophy, political theory, or moral reasoning

**\*Philosophy 185. Philosophy and the Ordinary: J.L. Austin and Others: Proseminar**

Catalog Number: 2178



*Stanley Cavell*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

An assessing of Austin's quarrels with, and provocations from, both Anglo-American analysis and Franco-German phenomenology and its aftermath, the latter represented in Derrida's encounter, in his "Signature Event Context," with Austin's *How to Do Things with Words*, the former in Austin's encounter, in his *Sense and Sensibilia*, with A.J. Ayer's *Foundations of Empirical Knowledge*. Some experience with Wittgenstein's *Philosophical Investigations* will be helpful.

**Philosophy 187. Aesthetics: Experience and Expression**

Catalog Number: 2594

*Richard Moran*

*Half course (spring term). M., W., (F.), at 2. EXAM GROUP: 7*

An examination of some texts of philosophical aesthetics from the 18th and 19th centuries, texts which either represent or anticipate the Romantic period. Themes include the role of emotion in art (from the point of view of both artist and audience), the nature of expression and its relation to the will, problems of sincerity and authenticity, and art or poetry as sources of knowledge. Readings will include some, but probably not all, of the following authors: Diderot, Schiller, Burke, Kant, Hume, Hegel, Lessing, Rousseau.

*Cross-listed Courses*

[**Afro-American Studies 125. Philosophical Problems of Race and Racism**]

[**Classics 165. Ancient Greek Medicine**]

[**Economics 2054. Social Choice and Welfare Economics**]

[**Greek 110r. Plato's Phaedrus**]

[**History of Science 106. History of Ancient Science**]

[**Islamic Civilizations 145 (formerly Arabic 145). Islamic Philosophy and Theology**]

[**Mathematics 141. Introduction to Mathematical Logic**]

[**Mathematics 142. Recursion Theory**]

[**Mathematics 143 (formerly Mathematics 143r). Set Theory**]

*Primarily for Graduates*

**\*Philosophy 201. Plato on Falsehood and Not-Being: Seminar**

Catalog Number: 4207

*Raphael Graham Woolf*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

In his later period Plato becomes increasingly concerned with the question "is falsehood possible?" It seems absurd to deny that statements can be false, and yet Plato confronts a series of arguments purporting to show just that. We examine Plato's attempts to deal with these arguments, attempts which involve consideration of the nature of language and thought, and of their relation to the world. Readings: the *Theaetetus*, the *Sophist* and possibly Plato's account of false pleasure in the *Philebus*.



**\*Philosophy 224. Hume's *Treatise Concerning Human Understanding*: Seminar**

Catalog Number: 5644

*Melissa Barry and Alison Simmons*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

This text is typically treated separately by philosophers interested in metaphysics and epistemology (who look at Book I) and by philosophers interested in moral philosophy and moral psychology (who look at Books II-III). We shall read the entire text, attending to the ways in which Hume is attempting to integrate his theoretical and practical philosophical views.

**\*Philosophy 232. Nietzsche and Foucault: Seminar**

Catalog Number: 4359

*Susan Kay Hahn (Johns Hopkins University)*

*Half course (fall term). Tu., 12–2. EXAM GROUP: 14, 15*

The direct influence of Nietzsche's philosophical thought and method on Foucault. First half, Nietzsche's revisionary view of truth and knowledge, with particular application of his anti-metaphysical commitments to morals. Second half, Foucault's Nietzsche-inspired theory of power, "knowledge/power" thesis, and genealogical methods in *Discipline and Punish*, *History of Sexuality* and other works.

**\*Philosophy 237. The Later Philosophy of Wittgenstein: Seminar**

Catalog Number: 2359

*Hilary Putnam*

*Half course (fall term). W., 4–6. EXAM GROUP: 9*

A discussion of Wittgenstein's masterpiece, the *Philosophical Investigations*, and some of the different approaches that have been taken to understanding it.

**\*Philosophy 248. Philosophy of Mathematics: Seminar**

Catalog Number: 3423

*Charles D. Parsons*

*Half course (fall term). F., 1–3. EXAM GROUP: 6, 7*

**\*Philosophy 252. Metaphysics and the Philosophy of Language: Seminar**

Catalog Number: 3910

*William G. Demopoulos (University of Western Ontario)*

*Half course (spring term). W., 4–6. EXAM GROUP: 9*

Aspects of Michael Dummett's program in metaphysics and the philosophy of language for the evaluation of metaphysical disputes. Particular emphasis on the philosophy of time and issues pertaining to the reality of the past and on the notion of an "absolute form of description" of reality. Independent developments and extensions of Dummett's program for selected issues in the philosophy of science. Basic texts: selections from Dummett's *Truth and other Enigmas* and *The Logical Basis of Metaphysics*.

**\*Philosophy 258. Belief, Trust and Testimony: Seminar**

Catalog Number: 1303

*Richard Moran*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*



The nature of our dependence on each other (including those long dead) for most of what we take ourselves to know. We shall consider what is involved in believing on the authority of another person's testimony, the relation between this and the value of autonomy, and the question whether this sort of reliance has a proper role to play in such contexts as moral or aesthetic experience. Readings will be drawn from Hume, Austin, Gadamer, Coady, Wellbourne, Anscombe, Baier and others.

**\*Philosophy 275. Practical Reason and Ethics: Seminar**

Catalog Number: 4228

*Derek Parfit (All Souls College, Oxford)*

*Half course (spring term). Tu., Th., 4–6. EXAM GROUP: 18*

Reasons for caring and for acting, rationality, normativity, motivation, naturalism, non-cognitivism, constructivism, non-reductive realism, egoism, consequentialism, contractualism, Kant.

**\*Philosophy 277. Philosophy and the Law: Seminar**

Catalog Number: 3887

*Robert Nozick and Scott Brewer*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

An examination of philosophical theories of the good life and human flourishing, and their implications for legal and political philosophy.

*Note:* Offered jointly with, and meeting at, the Law School. Open only to graduate students in the Department, with the permission of the instructor.

**\*Philosophy 279. Contemporary Theories of Justice: Seminar**

Catalog Number: 1026

*Michael Blake*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

A consideration of recent debates in political philosophy about social and political justice. How is justice related to different conceptions of human nature? How is it connected with ideas such as community, rights, and the good? We will focus on recent work dealing with justice and the claims made on behalf of social groups such as minority cultures, and the consequences of the exclusion or inclusion of these claims in our thinking about justice.

**\*Philosophy 299hf. Individual Supervision**

Catalog Number: 8076

*Charles D. Parsons and members of the Department*

*Half course (throughout the year). Hours to be arranged.*

*Note:* Required of candidates for the A.M. or Ph.D. in Philosophy. Consult the Department's Supplement to the General Announcement for details.

***Cross-listed Courses***

**Arabic 249r. Arabic Philosophical Texts: Seminar**

**\*History of Science 206r. Ancient Science: Seminar**

**\*History of Science 207r. Medieval Science: Seminar**



### ***Graduate Courses of Reading and Research***

#### **\*Philosophy 300a. Colloquium**

Catalog Number: 5615

*Richard G. Heck, Jr. 2993*

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

An intensive study — in small, informal seminars — of selected problems in contemporary philosophy.

*Note: Open only to first-year graduate students in the Department.*

#### **\*Philosophy 300b. Colloquium**

Catalog Number: 6280

*Thomas M. Scanlon, Jr. 7986*

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

Continuation of Philosophy 300a.

#### **\*Philosophy 303. Colloquium: Dissertation Presentations**

Catalog Number: 1089

*Thomas M. Scanlon, Jr. 7986*

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

#### **\*Philosophy 305. Individual Reading and Research**

Catalog Number: 4462

*K. Anthony Appiah 3067, Melissa Barry 3037, Michael Blake 1471, Warren Goldfarb 4499, Richard G. Heck, Jr. 2993, Christine M. Korsgaard 2994 (on leave 1999-00), Richard Moran 1786, Robert Nozick 2999, Charles D. Parsons 2298, James Pryor 2190 (on leave 1999-00), Hilary Putnam 2838, Thomas M. Scanlon, Jr. 7986, Alison Simmons 1300, and Raphael Graham Woolf 2488*

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

#### **\*Philosophy 310. Research Seminars**

Catalog Number: 4465

*K. Anthony Appiah 3067, Melissa Barry 3037, Michael Blake 1471, Warren Goldfarb 4499, Richard G. Heck, Jr. 2993, Christine M. Korsgaard 2994 (on leave 1999-00), Richard Moran 1786, Robert Nozick 2999, Charles D. Parsons 2298, James Pryor 2190 (on leave 1999-00), Hilary Putnam 2838, Thomas M. Scanlon, Jr. 7986, Alison Simmons 1300, and Raphael Graham Woolf 2488*

Small seminars on specialized topics, to be arranged when practicable by these members of the Department in consultation with graduate students who are suitably prepared. When topics of such seminars are decided far enough in advance, the seminars will be listed individually with numbers from 311 through 398.

#### **\*Philosophy 311. Workshop on Moral and Political Philosophy**

Catalog Number: 5370

*Melissa Barry 3037, Michael Blake 1471, Derek Parfit (All Souls College, Oxford) 2066, and Thomas M. Scanlon, Jr. 7986*



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

A forum for the presentation and discussion of work in progress by students and faculty working in the areas of moral and political philosophy. Open only to graduate students in the Philosophy Department and by special invitation of the instructors.

*Note:* Meets approximately every two weeks throughout the year.

**\*Philosophy 333. Preparation for the Topical Examination**

Catalog Number: 1967

*K. Anthony Appiah 3067, Melissa Barry 3037, Michael Blake 1471, Warren Goldfarb 4499, Richard G. Heck, Jr. 2993, Christine M. Korsgaard 2994 (on leave 1999-00), Richard Moran 1786, Robert Nozick 2999, Charles D. Parsons 2298, James Pryor 2190 (on leave 1999-00), Hilary Putnam 2838, Thomas M. Scanlon, Jr. 7986, Alison Simmons 1300, and Raphael Graham Woolf 2488*

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

*K. Anthony Appiah 3067, Melissa Barry 3037, Michael Blake 1471, Stanley Cavell 2087, Warren Goldfarb 4499, Richard G. Heck, Jr. 2993, Christine M. Korsgaard 2994 (on leave 1999-00), Richard Moran 1786, Robert Nozick 2999, Charles D. Parsons 2298, James Pryor 2190 (on leave 1999-00), Hilary Putnam 2838, Thomas M. Scanlon, Jr. 7986, Alison Simmons 1300, and Raphael Graham Woolf 2488*

## Physics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Department of Physics*

David R. Nelson, Mallinckrodt Professor of Physics and Professor of Applied Physics (*Chair and Director of Graduate Studies*) ( )

Howard C. Berg, Professor of Molecular and Cellular Biology and Professor of Physics

Michael Bershadsky, Associate Professor of Physics

George W. Brandenburg, Lecturer on Physics, Senior Research Fellow, Director of the High Energy Physics Laboratory

Sidney Coleman, Donner Professor of Science

John M. Doyle, John L. Loeb Associate Professor of the Natural Sciences

Henry Ehrenreich, Clowes Professor of Science

Gary J. Feldman, Frank B. Baird, Jr. Professor of Science

Daniel S. Fisher, Professor of Physics and Professor of Applied Physics



Melissa Franklin, Professor of Physics  
Gerald Gabrielse, Professor of Physics  
Peter L. Galison, Mallinckrodt Professor of the History of Science and of Physics  
Howard Georgi, Mallinckrodt Professor of Physics  
Sheldon L. Glashow, Higgins Professor of Physics  
Roy J. Glauber, Mallinckrodt Professor of Physics (*on leave fall term*)  
Jene A. Golovchenko, Gordon McKay Professor of Applied Physics and Professor of Physics  
Leonardo Golubovic, Visiting Associate Professor of Physics (*West Virginia University*)  
Bertrand I. Halperin, Hollis Professor of Mathematics and Natural Philosophy  
Lene V. Hau, Gordon McKay Professor of Applied Physics and Professor of Physics  
Thomas C. Hayes, Lecturer on Physics  
Eric J. Heller, Professor of Chemistry and Physics (*on leave fall term*)  
Paul Horowitz, Professor of Physics  
John Huth, Professor of Physics (*on leave spring term*)  
Arthur M. Jaffe, Landon T. Clay Professor of Mathematics and Theoretical Science  
Efthimios Kaxiras, Gordon McKay Professor of Applied Physics and Professor of Physics  
Margaret E. Law, Senior Lecturer on Physics, Director of the Physics Laboratories (*Head Tutor*)  
Juan Maldacena, Professor of Physics  
Charles M. Marcus, Professor of Physics  
Paul C. Martin, John H. Van Vleck Professor of Pure and Applied Physics  
Eric Mazur, Harvard College Professor, Gordon McKay Professor of Applied Physics and Professor of Physics  
Costas D. Papaliolios, Professor of Physics  
William Paul, Mallinckrodt Professor of Applied Physics and Professor of Physics  
Peter S. Pershan, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)  
Mara Prentiss, Professor of Physics  
William H. Press, Professor of Astronomy and of Physics (*on leave 1999-00*)  
Michael Schmitt, 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  
John Terning, Lecturer on Physics  
Michael Tinkham, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics  
Cumrun Vafa, Professor of Physics  
Steven Weinberg, Morris Loeb Visiting Professor of Physics (*University of Texas, Austin*)  
David A. Weitz, Gordon McKay Professor of Applied Physics and Professor of Physics  
Robert M. Westervelt, Gordon McKay Professor of Applied Physics and Professor of Physics  
Richard Wilson, Mallinckrodt Professor of Physics  
Tai T. Wu, Gordon McKay Professor of Applied Physics and Professor of Physics (*on leave spring term*)

***Other Faculty Offering Instruction in Physics***



Gerald Holton, Mallinckrodt Professor of Physics and Professor of the History of Science, Emeritus

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.

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 semesters, 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 will 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., 8:30–10, plus twice weekly conference sections and six laboratory sessions to be arranged. EXAM GROUP: 11*

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.

*Prerequisite:* Mathematics 1b or the equivalent. Students with a lower level of mathematical preparation should consult the instructor.

### **Physics 1b. Principles of Physics: Electricity, Waves, Nuclear Physics**

Catalog Number: 7483

*Eric Mazur and David A. Weitz*

*Half course (spring term). Tu., Th., 8:30–10, plus twice weekly conference sections and five laboratory sessions to be arranged. EXAM GROUP: 10, 11*

A continuation of Physics 1a: electricity and magnetism, direct-current and alternating-current circuits, sound and light, radioactivity and nuclear physics.

*Note:* May not ordinarily be taken for credit in addition to Physics 11b or 15b.

*Prerequisite:* Physics 1a and Mathematics 1b, or the equivalent.

### **Physics 11a. Mechanics**

Catalog Number: 3131

*John Huth, Michael Bershadsky, and assistants*

*Half course (fall term). Lectures, Tu., Th., 11:30–1; weekly ninety-minute discussion sections. EXAM GROUP: 13*

Physics 11a is the first half of a one-year physics sequence. It provides an introduction to classical mechanics, including the laws of conservation of energy, momentum, and angular momentum; the translational motion of particles, rigid bodies, and fluids; the rotational motion of rigid bodies; the general description of waves and optics. 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.

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

Catalog Number: 5472

*Michael Bershadsky and Michael Schmitt*

*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 optics, and a brief introduction to quantum physics.

*Note:* May not be taken for credit by students who have passed Physics 15b or Physics 15c.

*Prerequisite:* Physics 11a; Mathematics 21a or 23a.

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

Catalog Number: 1984

*Michael Tinkham (fall term) and George W. Brandenburg (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30, and a weekly two-hour discussion section. EXAM GROUP: 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; special relativity. *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

*Mara Prentiss (fall term), Cumrun Vafa (spring term), and assistants*

*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: 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.

*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

*Costas D. Papaliolios (fall term) and Juan Maldacena (spring 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*

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.

*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: 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.

*Prerequisite:* Score of 4 or 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 89. Applications of Mechanics]**

Catalog Number: 6551

*Sheldon L. Glashow*

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

Introduction to theoretical research through discussions of a wide variety of open-ended problems in classical mechanics suggested by everyday phenomena. Students are expected to pursue individual research on chosen or assigned projects. This course is intended for those with a scientific bent including, but not limited to, physics concentrators.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 11a, 15a, 16 and familiarity with elementary calculus, or permission of the instructor.

### **\*Physics 90r. Supervised Research**

Catalog Number: 2460

*Margaret E. Law and members of the Department*

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

*Note:* Ordinarily open to 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 Jefferson 365.

### **\*Physics 91r. Supervised Reading Course for Undergraduates**

Catalog Number: 1218

*Margaret E. Law 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 Jefferson 365.



### **Physics 95 (formerly Physics 99). Topics in Current Research**

Catalog Number: 2806

*Isaac F. Silvera*

*Half course (fall term). M., 3–4, W., 7:30–9 p.m. EXAM GROUP: 8*

The goal of this physics tutorial is to guide students in the transition from learning physics by subject (e.g., electricity and magnetism, quantum mechanics, etc.) to appreciating physics as an intense, diverse discipline of modern research. Examples from experimental and theoretical, high and low energy physics are presented. Every Wednesday evening, a physics faculty member speaks on his/her area of research. Each presentation is preceded by assigned reading and a lecture designed to introduce students to some of the basic physics of the area discussed, as well as to important developments and burning problems being addressed at the frontiers of research.

*Note:* Intended mainly for junior and senior concentrators.

### **[\*Physics 98r. Tutorial ]**

Catalog Number: 3033 Enrollment: Limited.

*Howard Georgi and members of the Department*

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

Small group tutorial, ordinarily limited to Physics or Chemistry and Physics concentrators.

Supervised individual projects and class presentations required. Topics for 1999-2000 to be announced. Past topics have included Relativity, Optical Instrumentation, and Foundations of Quantum Mechanics.

*Note:* Expected to be given in 2000–01. May be repeated for course credit with permission from the Head Tutor. Only one tutorial may count for concentration credit.

*Prerequisite:* Introductory physics and math at least through the level of Physics 15b and Math 21b. The detailed prerequisites will vary with the subject of the tutorial.

### ***Cross-listed Courses***

**Astronomy 45. Introduction to Astrophysics**

**Science A-15. Dynamics and Energy**

**[Science A-16. Relativity and Quantum Physics]**

**Science A-20. From Alchemy to Elementary Particle Physics**

**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. Studies in the 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 2000–01. 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. EXAM GROUP: 6*

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. The treatment moves quickly from passive circuits, through design with discrete transistors, then concentrates on the application of integrated operational amplifiers to make a variety of circuits including integrators, oscillators, regulators, and filters. The digital half of the course emphasizes the use of programmable logic devices, microprocessors, and microcontrollers, while treating issues that arise in interfacing both analog and digital devices to a computer. Provides an overview of radio and television, digital audio, signal averaging, and construction techniques.

*Note:* Both sections must report to the first course meeting.

### **Physics 125. Widely Applied Physics**

Catalog Number: 6990

*John M. Doyle*

*Half course (spring 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. Materials: materials engineering, structure of the Earth, mountains, bridges, buildings. Nuclear physics: reactions, cross-sections, origin of the elements in the Big Bang and stars, reactors. Flight: aerodynamics, aircraft, rockets, spacecraft, fluid flow. Energy use and production: the automobile, fossil, nuclear, solar, and wind power. Communications: signal and noise, radar, radio astronomy. Biological physics: radiation, health risks. Climate and global change.

*Note:* Physics 143a and 181 are very helpful, but not required.

*Prerequisite:* Physics 15a,b,c, and mathematics at the level of Mathematics 21a (which may be taken concurrently).

### **Physics 143a. Quantum Mechanics I**

Catalog Number: 1050

*John M. Doyle (fall term) and Gary J. Feldman (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 10–11:30. EXAM GROUP: Fall: 13; Spring: 12, 13*

Introduction to nonrelativistic quantum mechanics: uncertainty relations; Schrödinger equation; one-dimensional problems including particle in box, tunneling, and harmonic oscillator; angular momentum, hydrogen atom, spin, Pauli principle; time-independent perturbation theory.

*Prerequisite:* Physics 15c or written permission of the Head Tutor.



### **Physics 143b. Quantum Mechanics II**

Catalog Number: 0253

*Gary J. Feldman*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Further techniques and applications of quantum mechanics, including approximation methods for time-dependent problems, several and many-particle systems, interaction of quantum systems with radiation and external fields, collision theory, and measurement theory.

*Prerequisite:* Physics 143a.

### **Physics 145. Elementary Particle Physics**

Catalog Number: 6057

*Sheldon L. Glashow*

*Half course (spring term). Lecture meets Tu., Th., 11:30–1; additional seminars Tu., Th., 7:30–9 p.m. as needed. EXAM GROUP: 13, 14*

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 146. Group Theory Applied to Physics]**

Catalog Number: 6105

*Sheldon L. Glashow*

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

An introduction to group theory and its applications to physics. Both finite groups and continuous groups will be discussed. Applications may include, but are not limited to, symmetries of crystals, vibrations of molecules, isotopic spin and its generalizations, and space-time symmetries.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 143a.

### **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; action principles, Hamilton's equations; symmetry and conservation laws, Hamilton-Jacobi theory and phase space dynamics. Applications to celestial mechanics, quantum mechanics, rigid body motion, the theory of small oscillations and classical fields, and nonlinear oscillations, including chaotic systems will be 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

*Michael Tinkham*

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

Aimed at advanced undergraduates. Emphasis on the properties and sources of the field vectors and on the wave aspect of the electromagnetic fields. Course starts with electrostatics and subsequently develops the Maxwell equations. Topics: electrostatics, dielectrics, magnetostatics, electrodynamics, wave propagation in various media, reflection and refraction, radiation, antennas and interference. In addition, a number of applications of electrodynamics 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 181. Statistical Mechanics and Thermodynamics**

Catalog Number: 6346

*Robert M. Westervelt*

*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.

*Melissa Franklin (fall term), Gerald Gabrielse (fall term), and Robert M. Westervelt (fall term); Costas D. Papaliolios (spring term), and Mara Prentiss (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 1–5. EXAM GROUP: 15, 16, 17*

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:* The course cooperates with Applied Physics 191; experiments from that course may be chosen when available. 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

*William Paul*

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

Fundamental physical properties of crystalline solids discussed in terms of the basic principles of



classical and quantum physics. Crystal structure, x-ray determination of structure, lattice vibrations, specific heat, energy band theory of metals and semiconductors and insulators, electrical transport in metals and semiconductors, optical properties, applications of semiconductors in devices.

*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.

### **Physics 197. Computational Physics Methods and Applications**

Catalog Number: 8653

*Efthimios Kaxiras*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course develops computational approaches for understanding physical systems, and illustrates the applications of such approaches to specific problems. The methods to be covered include: numerical differentiation and integration, solution of ordinary and partial differential equation, eigensystems, and stochastic approaches like Monte Carlo and genetic algorithms for statistical sampling and optimization of multi-variable systems. The emphasis is on developing the ability to handle both simple and complex physical systems which are analytically intractable. Examples will be drawn from several diverse fields of physics. Familiarity with a programming language (Like Fortran or C) is assumed.

*Note:* May not be taken for credit by students who have taken Applied Physics 197.

*Prerequisite:* Background in mathematics at the level of Applied Mathematics 105b, which may be taken concurrently.

### ***Cross-listed Courses***

**[Applied Physics 195. Introduction to Solid State Physics]**

**Astronomy 145. Topics in Astrophysics**

**Astronomy 150 (formerly Astronomy 205). Physical Processes in Astrophysics**

**Astronomy 191. Astrophysics Laboratory**

**Astronomy 192. Astronomical Measurements**

**Chemistry 160. Physical Chemistry**

**Chemistry 161. Statistical Thermodynamics**

**Earth and Planetary Sciences 106. Introduction to Planetary Physics**

**Engineering Sciences 120. Introduction to the Mechanics of Solids**

**Engineering Sciences 123. Introduction to Fluid Mechanics**

**Engineering Sciences 154. Introduction to Electronic Circuits**

**Engineering Sciences 181. Thermodynamics and Introduction to Statistical Mechanics**

**Engineering Sciences 190. Introduction to Materials Science**

**[MCB 125. Introduction to Biophysics]**

***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 equations; the Newtonian limit; gravitational radiation; experimental tests; Penrose diagrams; black holes.

*Prerequisite:* Physics 151 and 153, and Mathematics 21 or equivalents.

### **[Physics 211. General Relativity, Cosmology, and Other Topics]**

Catalog Number: 0469

*Andrew Strominger*

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

The focus will be the classical and quantum theory of black holes. Schwarzschild and Kerr-Newman solutions; causal structure; Penrose diagrams; the classical laws of black hole mechanics, experimental evidence; Hawking radiation; the information paradox; black hole entropy.

*Note:* Expected to be given in 2000–01. Physics 253a helpful but not required. Auditors should obtain permission of instructor. It is suggested that students may wish to take Astronomy 211 when this course is bracketed.

*Prerequisite:* General relativity at level of Physics 210 or equivalent.

### **Physics 218. Modern Dynamical Systems**

Catalog Number: 1362

*Arthur M. Jaffe*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduction to modern topics in dynamical systems and classical Hamiltonian theory, including nonlinear systems and chaos. Modern topics include iterated maps, Poincaré maps, nonlinear resonance theory, KAM theory, structure of phase space, mixing and entropy production, bifurcation theory, homoclinic tangles, Smale horseshoes, fractal repellers and numerical methods.

*Prerequisite:* Physics 151 and 143a,b or equivalent; Applied Math 201,202 or equivalent.

### **Physics 231 (formerly Physics 232a). Electrodynamics I**

Catalog Number: 4885

*Paul C. Martin*

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

This course will concentrate on the properties of static fields, electromagnetic waves generated by prescribed charges and currents (including synchrotron radiation), and scattering. The formation of Maxwell's equations as a relativistically covariant field theory (in which the transition to quantum electrodynamics is most natural) will also be presented along with applications where the covariant description is convenient. Some elementary



magnetohydrodynamics will also be discussed.

*Note:* Physics 231 is being offered as a complement to Physics 232, which concentrates on the interactions of radiation with atoms and condensed matter. Neither course has the other as a prerequisite and both may be taken for credit.

*Prerequisite:* Physics 153 and Applied Mathematics 105a,105b, or equivalent.

### **Physics 232 (formerly Physics 232b). Advanced Electrodynamics**

Catalog Number: 7246

*Peter S. Pershan*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 12, 13*

Electrodynamical phenomena that are relevant to low-energy experimental physics will be discussed. Topics to be covered will include the interaction of electromagnetic radiation with atoms, molecules and condensed matter, scattering from non-relativistic charged particles and currents, diffraction phenomena, linear and non-linear optical phenomena, microwave and optical waveguides, propagation in periodic media, including the dynamic theory of x-ray diffraction and photonic crystals.

*Prerequisite:* Physics 153 and Applied Mathematics 105a and 105b, or equivalent.

### **Physics 245. Relativistic Quantum Mechanics with Applications**

Catalog Number: 3551

*Michael Schmitt*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Basic techniques of relativistic quantum mechanics and field theory, including Feynman diagrams, with applications. Emphasis is given to the basic concepts of quantum field theory and their applications in the phenomenology of elementary particle physics. Applications covered include QED, weak interactions, and an introduction to the standard electroweak model.

*Prerequisite:* Two semesters of quantum mechanics, e.g., Physics 143a,b or equivalent.

### **\*Physics 247r. Laboratory Course in Contemporary Physics**

Catalog Number: 8665 Enrollment: Together with Physics 191r, limited to a total of 24 students.

*Melissa Franklin, Gerald Gabrielse and Robert M. Westervelt (fall term); Costas Papaliolios and Mara Prentiss (spring term)*

*Half course (fall term; repeated spring term). Tu., Th., 1–5. EXAM GROUP: 15, 16, 17*

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:* The course cooperates with Applied Physics 210r. A substantial amount of outside reading may be required.

### **Physics 248. Phenomena of Elementary Particle Physics**

Catalog Number: 5431

*Melissa Franklin*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

A systematic introduction to the phenomena of elementary particle interactions. Topics:



symmetries, hadron spectroscopy, deep inelastic scattering and structure functions, QCD, heavy quark production and decay, CP violation, symmetry breaking, Higg's mechanism, and others.

*Prerequisite:* Physics 245 or equivalent.

### **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 Schrodinger 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; identical particles and second quantization; symmetry groups.

*Prerequisite:* Physics 251a.

### **Physics 253a. Quantum Field Theory**

Catalog Number: 8050

*Sidney Coleman*

*Half course (fall term). Tu., Th., 1-2:30. EXAM GROUP: 15, 16*

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**

Catalog Number: 5250

*Sidney Coleman*

*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 262. Statistical Physics]**

Catalog Number: 1157

*Roy J. Glauber*

*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; fluctuations about equilibrium, and the response to time-dependent perturbations.



*Note:* Expected to be given in 2000–01. It is suggested that students may wish to take Applied Physics 284 when this course is bracketed.

*Prerequisite:* Ordinarily, Physics 143a,b and Physics 181 or Engineering Sciences 181.

**[Physics 264. Group Theory with Application to Particle Physics]**

Catalog Number: 5317

*Howard Georgi*

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

Introduces the theory of Lie groups and their representations. Emphasizes compact groups and applications to particle physics.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 143a and 143b or equivalent.

**[Physics 265r (formerly Physics 265). Topics in Experimental Atomic, Molecular, and Optical Physics]**

Catalog Number: 4203

*Mara Prentiss*

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

Survey of current topics in experimental atomic, optical, and low energy particle physics.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Quantum mechanics.

**Physics 266. Topics in Bose-Einstein Condensation and Superfluidity**

Catalog Number: 0104

*Isaac F. Silvera*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

This special topics course will present a deep treatment of Bose-Einstein condensation and superfluidity in fluids of identical bosons. Both the homogeneous systems such as superfluid helium and the inhomogeneous systems such as the alkali gases and spin-polarized hydrogen will be considered in three and two dimensions. The material will be balanced between theory and experiment. Degenerate Fermion systems will also be discussed.

*Prerequisite:* Quantum mechanics and statistical mechanics.

**Physics 268r. Theory of Many-Particle Systems**

Catalog Number: 7951

*Daniel S. Fisher*

*Half course (spring term). M., W., 12–1:30. EXAM GROUP: 5, 6*

A selection of topics in statistical physics, including some of the following: disordered systems, phase transitions, non-equilibrium dynamics, and renormalization group methods.

*Prerequisite:* Physics 262 or equivalent.

**Physics 270. Experiments and Ideas in Mesoscopic Physics**

Catalog Number: 0788

*Charles M. Marcus*

*Half course (spring term). F., 2:30–4, W., 3:15–4:45. EXAM GROUP: 7, 8, 9*

This special topics course introduces the subject of mesoscopic quantum effects in small



electronicsystems, including conductance fluctuations, localization, electron interference, and persistence currents in metals and semiconductors. More or less attention will be given to specialized topics such as hybrid superconducting systems, magnetic and Kondo systems, clean (ballistic) systems, dynamical effects, and the high magnetic field regime, depending on the interests of participants. The reading list will focus primarily on the experimental literature, augmented by recent texts and reviews. The format of the course will be a combination of lectures and journal-club-style presentations.

*Prerequisite:* Basic familiarity with quantum mechanics and solid state physics at the level of undergraduate courses.

**[Physics 275r. Topics in Particle Physics: Weak Decays and CP Violation ]**

Catalog Number: 1092

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

Assumes a very basic knowledge of quantum field theory and covers renormalization, path integrals, TCP symmetries, rotational symmetry, and helicity formalism, gauge theory, the standard model, and CP violation.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 245 or equivalent.

**[Physics 283. The Standard Model]**

Catalog Number: 3620

*Howard Georgi*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Theory and phenomenology of the Standard Model of particle physics.  $SU(2) \times U(1) \times SU(3)$  gauge theory of the electroweak and strong interactions. Neutral currents, W and Z, charm, bottom and top, and electroweak symmetry breaking. Additional topics in advanced quantum field theory including some or all of the following: including effective field theory; effective chiral theories; heavy quark effective theory; supersymmetry; and unified gauge theories.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Physics 253a,b or equivalent.

**Physics 284. Advanced Quantum Field Theory**

Catalog Number: 6571

*Howard Georgi and John Terning*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Topics in advanced quantum field theory. This year, the focus will be supersymmetry (SUSY), including duality in  $N=1$  SUSY, dynamical SUSY breaking and some aspects of SUSY phenomenology.

*Prerequisite:* Physics 253a, 253b or equivalent.

**[Physics 285. Non-Relativistic Quantum Electrodynamics]**

Catalog Number: 3264

*Roy J. Glauber*

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

Quantum theory of interactions of light with various atomic systems. Coherence and statistical



optics. Statistics of more general boson and fermion systems.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A course in electromagnetic theory (Physics 232 or equivalent); one half course in intermediate or advanced quantum mechanics.

### **Physics 287a. Introduction to String Theory**

Catalog Number: 2012

*Juan Maldacena*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

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.

*Note:* Expected to be omitted in 2000-01.

*Prerequisite:* Physics 253a,b or equivalent.

### **Physics 287br (formerly Physics 287b). Topics in String Theory**

Catalog Number: 4555

*Andrew Strominger*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

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*

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

Introduction to supersymmetry and constructive quantum field theory, with emphasis on applications to geometric problems.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Basic knowledge of quantum mechanics, analysis, and geometry.

### ***Cross-listed Courses***

#### **Applied Mathematics 201. Complex Function Theory with Applications**

**[Applied Mathematics 202. Partial Differential and Integral Equations]**

**[Applied Mathematics 203. Topics in Applied Mathematics]**

**[Applied Mathematics 205. Scientific Computing]**

#### **Applied Physics 216 (formerly Applied Physics 216r). Optical Physics 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 297r. Computational Approaches in Many-Body Physics]**

**Applied Physics 298r. Materials Chemistry and Physics: Seminar**

**[\*Astronomy 204. Galactic and Extragalactic Dynamics]**



[**Astronomy 206. Stellar Physics**]

[**Astronomy 208. The Physics of the Interstellar Medium**]

[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 305,306. Experimental High Energy Physics**

Catalog Number: 7929,0855

*John Huth 3506 (on leave spring 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*

**\*Physics 313,314. Topics in String Theory, Quantum Gravity and Field Theory**

Catalog Number: 9411,5350

*Juan Maldacena 3697*

**\*Physics 315,316. Topics in Theoretical Atomic, Molecular, and Optical Physics**

Catalog Number: 7387,8871

*Eric J. Heller 1074 (on leave fall term)*

**\*Physics 317,318. High Energy Physics**

Catalog Number: 5095,1603

*Richard Wilson 2866*

**\*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 325,326. Electronic Theory of Condensed Matter**

Catalog Number: 2946,2952

*Henry Ehrenreich 2411*

**\*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*

**\*Physics 335,336. Topics in the History and Philosophy of Physics**

Catalog Number: 6697,4276

*Gerald Holton 1883*

**\*Physics 339,340. Theory and Elementary Particles**

Catalog Number: 3676,5962

*Sheldon L. Glashow 2123*

**\*Physics 341,342. Topics in Elementary Particles**

Catalog Number: 1990,6602

*Sidney Coleman 2111*

**\*Physics 345,346. Experimental Gravitation: Radio and Radar Astronomy**

Catalog Number: 5067,5072

*Irwin I. Shapiro 7660*

**\*Physics 351,352. Experimental Low Energy Physics**

Catalog Number: 1134,1129

*Costas D. Papaliolios 2970*

**\*Physics 353,354. Topics in Statistical Physics**

Catalog Number: 3721,5287

*Paul C. Martin 2103*



**\*Physics 355,356. Theory of Elementary Particles**

Catalog Number: 1213,7654

*Roy J. Glauber 2113 (on leave fall term)*

**\*Physics 357,358. Experimental Condensed Matter Physics**

Catalog Number: 4430,5227

*Robert M. Westervelt 6148*

**\*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 (on leave spring term)*

**\*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*

**\*Physics 375,376. Superconductivity and Mesoscopic Physics**

Catalog Number: 1228,7663

*Michael Tinkham 2131*

**\*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*

**\*Physics 381,382. Topics in Experimental High Energy Physics**

Catalog Number: 6613,6614

*Michael Schmitt 3698*

**\*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*

**\*Physics 387,388. Topics in Quantum Optics and Molecular Physics**

Catalog Number: 5772,5774

*Eric Mazur 7952*

**\*Physics 391,392. Gravitation Theory and Astrophysical Applications**

Catalog Number: 6119,6293

*William H. Press 4693 (on leave 1999-00)*

**\*Physics 393,394. Topics in Elementary Particle Theory**

Catalog Number: 6051,6218

*Howard Georgi 4754*

**\*Physics 397,398. Experimental Condensed Matter Physics**

Catalog Number: 7355,7356

*Jene A. Golovchenko 1986*

## Political Economy and Government

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

*Faculty of the Committee on Higher Degrees in Political Economy and Government*



Robert H. Bates, Eaton Professor of the Science of Government (*Chair*)  
 Alberto F. Alesina, Professor of Economics and of Government  
 Christopher N. Avery, Assistant Professor of Public Policy (*Kennedy School*)  
 George J. Borjas, Professor of Public Policy (*Kennedy School*)  
 Cary Coglianese, Assistant Professor of Public Policy (*Kennedy School*)  
 Suzanne J. Cooper, Assistant Professor of Public Policy (*Kennedy School*)  
 Jeffrey Frieden, Professor of Government (*on leave spring term*)  
 Edward L. Glaeser, Professor of Economics  
 Jerry R. Green, John Leverett Professor in the University and the David A. Wells Professor of Political Economy  
 William W. Hogan, Thornton Bradshaw Professor of Public Policy and Management (*Kennedy School*) (*ex officio*)  
 Dale W. Jorgenson, Frederic E. Abbe Professor of Economics (*on leave spring term*)  
 Joseph P. Kalt, Ford Foundation Professor of Political Economy (*Kennedy School*)  
 Gary King, Professor of Government  
 Robert Z. Lawrence, Albert L. Williams Professor of International Trade and Investment (*Kennedy School*)  
 Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science (*ex officio*)  
 Lisa L. Martin, Professor of Government (*on leave spring term*)  
 Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)  
 Kenneth A. Shepsle, George D. Markham Professor of Government  
 Robert N. Stavins, Professor of Public Policy (*Kennedy School*)  
 Jeffrey G. Williamson, Laird Bell Professor of Economics (*ex officio*)  
 David A. Wise, John F. Stambaugh Professor of Empirical Analysis (*Kennedy School*)  
 Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy (*Kennedy School*)

The Ph.D. in Political Economy and Government (PEG degree) is intended for scholars interested in either academic or policy-making careers requiring advanced knowledge of both economics and political science. It is appropriate only for the small number of students whose academic interests are not served by doctoral studies in economics, political science, or public policy.

Candidates for the PEG degree are typically in residence for at least two years before undertaking an oral general examination. Course work integrates economics, political science, and other social sciences. 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 of residence and research. Recent scores from the aptitude portion of the Graduate Record Examination are required, as are transcripts for all prior study and 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.



# Psychology

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Psychology*

Daniel L. Schacter, Professor of Psychology (*Chair*)  
Nalini Ambady, Ruth and John Hazel Associate Professor of the Social Sciences  
Mark G. Baxter, Assistant Professor of Psychology  
Alfonso Caramazza, Professor of Psychology  
Patrick Cavanagh, Professor of Psychology  
Patricia Deldin, Assistant Professor of Psychology (*on leave 1999-00*)  
L. Dodge Fernald, Senior Lecturer on Psychology  
Daniel T. Gilbert, Professor of Psychology (*on leave 1999-00*)  
J. Richard Hackman, Cahners-Rabb Professor of Social and Organizational Psychology;  
Professor of Psychology  
Marc D. Hauser, Professor of Psychology  
Jill M. Hooley, Professor of Psychology  
Jerome Kagan, Daniel and Amy Starch Professor of Psychology (*on leave fall term*)  
Pamela Kohl Keel, Assistant Professor of Psychology  
Lauren Korfine, Lecturer on Psychology  
Stephen M. Kosslyn, Professor of Psychology (*Head Tutor*)  
Sharon H. Kramer, Lecturer on Psychology  
Ellen J. Langer, Professor of Psychology  
Michelle D. Leichtman, Associate Professor of Psychology  
Mark F. Lenzenweger, Associate Professor of Psychology  
Christiane Linster, Lecturer on Psychology (*fall term only*)  
Richard J. McNally, Professor of Psychology (*Chair, Committee on Higher Degrees*)  
Ken Nakayama, Edgar Pierce Professor of Psychology  
Karen M. Ruggiero, Assistant Professor of Psychology (*on leave 1999-00*)  
Robert L. Savoy, Lecturer on Psychology (*fall term only*)  
Daniel J. Simons, Assistant Professor of Psychology  
Philip Stone, Professor of Psychology  
Sheldon H. White, John Lindsley Professor of Psychology in Memory of William James (*on leave 1999-00*)

### *Other Faculty Offering Instruction in the Department of Psychology*

Teresa M. Amabile, Professor of Business Administration (*Business School*)  
John Barnard, Assistant Professor of Statistics



Francine M. Benes, Associate Professor of Psychiatry (*Medical School*)  
Kurt W. Fischer, Professor of Education (*Education*)  
Howard E. Gardner, Professor of Education (*Education*)  
Carol F. Gilligan, Professor of Education (*Education*)  
Anne Harrington, Professor of the History of Science (*on leave spring term*)  
Dara S. Manoach, Assistant Professor of Neurology (*Medical School*)  
William P. Milberg, Associate Professor of Psychiatry in the Department of Psychiatry (*Medical School*)  
Margaret G. O'Connor, Assistant Professor of Neurology (*Medical School*)  
Donald B. Rubin, Professor of Statistics (*on leave spring term*)  
Robert L. Selman, Professor of Psychology (*Medical School*) and Professor of Education (*Education*)  
Catherine E. Snow, Henry Lee Shattuck Professor of Education (*Education*)  
Mark Tramo, Assistant Professor of Neurology (*Medical School*)  
Drew Westen, Associate Professor of Psychology in the Department of Psychiatry (*Medical School*)

The following courses offered in Human Development at the Graduate School of Education automatically count for undergraduate concentration credit:

Education H-105. Cognitive and Symbolic Development

Education H-125. Art and the Mind: A Cognitive View of the Arts, Development, and Education

Education H-135. Extraordinary Intellectual Achievement: Its Explanation and its Nurturance

\*Education H-155. Seminar: Methods and Concepts in Research on Dynamic Development of Emotion of Cognition

\*Education H-173. The Role of the Disciplines in Education Today

\*Education H-390. The Promotion of Interpersonal Development and Intergroup Competence

\*Education H-391. Research Seminar: The Development of Interpersonal Competence

Education H-637. A Radical Geography of the Psyche

Education H-710. Child Language and Education I

Education H-000. Proseminar in Mind, Brain, and Education

Cross-registration with instructors' and departmental signature is required. Forms for cross-registration are available in Senior Tutors' offices.

The above courses; H-090, Proseminar in Human Development and Psychology; and H-731, Bilingualism and Second Language Acquisition: Psycholinguistic and Planning Perspectives, are



also particularly recommended for graduate students.

For full course descriptions, consult the School of Education course catalog.

***Primarily for Undergraduates***

**Psychology 1. Introduction to Psychology**

Catalog Number: 0854

*Patrick Cavanagh (spring term) and Richard J. McNally (fall term)*

*Half course (fall term; repeated spring term). Fall: Tu., Th., 2:30–4 and one hour to be arranged; Spring: M., W., 2–3:30 and one hour to be arranged. EXAM GROUP: Fall: 16, 17; Spring: 7, 8*

Surveys historical and contemporary approaches to the scientific study of human behavior. Introduces students to the bases of sensation, perception, and emotion; human development and learning; personal and social influences on behavior, personality, and psychopathology.

**Psychology 13. Cognitive Psychology**

Catalog Number: 8706

*Daniel J. Simons*

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

Introduces the study of human cognition. Topics include perception, attention, memory, knowledge representation, language, problem solving, and reasoning. Considers the real-world implications of laboratory findings.

*Prerequisite:* Psychology 1, or permission of the instructor.

**Psychology 15. Social Psychology**

Catalog Number: 4760

*Ellen J. Langer*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines social psychological processes relevant to perspectives on the self, prejudice and stereotyping, mindfulness theory, social cognition, social influence and group processes, and applications to law, education, and health.

**[Psychology 16. Human Development]**

Catalog Number: 1483

*Michelle D. Leichtman*

*Half course (fall term). M., W., F., at 11, plus sections W., at 10 a.m. or at 12 p.m. EXAM GROUP: 4*

Introduces theory, empirical research, and applied issues in developmental psychology. Social, cognitive, and linguistic aspects of development are treated from infancy through adolescence, with special emphasis on early childhood. Sections include child observation and testing.

*Note:* Expected to be given in 2000–01.

**Psychology 17. Personality Psychology**

Catalog Number: 4538



*Mark F. Lenzenweger*

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

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 omitted in 2000–01.

*Prerequisite:* An introductory course in psychology, preferably Psychology 1.

### **Psychology 18. Abnormal Psychology**

Catalog Number: 8560

*Pamela Kohl Keel*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Introduction to the study of psychopathology. Focus 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.

*Note:* Cannot be taken Pass/Fail.

*Prerequisite:* An introductory course in psychology.

### **\*Psychology 910r. Supervised Reading and Research**

Catalog Number: 1472

*Stephen M. Kosslyn and members of the Department*

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

Supervised research and reading on topics or problems not covered by regular courses of instruction.

*Note:* Paper required. Admission to course via application (available in Psychology Undergraduate Office). May be taken not more than three times for College credit, not more than twice for non-honors concentration credit, and not at all for honors concentration credit.

### **\*Psychology 970. Sophomore Tutorial in Psychology**

Catalog Number: 8008

*Stephen M. Kosslyn 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.

*Note:* This tutorial, or Psychology 971 or 975, is required of concentrators upon entering the concentration, normally the sophomore year. Sophomore Essay required. Letter-graded.

### **\*Psychology 971. Sophomore Tutorial in Psychology**

Catalog Number: 3498

*Stephen M. Kosslyn and members of the Department*

*Half course (fall term; repeated spring term). 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.

*Note:* This tutorial is designed for students who enter the concentration after the first semester of the sophomore year. For assignment to a section, speak to the Undergraduate Program Administrator before Study Cards are due. Sophomore Essay required. Letter-graded. Students who take this course instead of Psychology 970 must take an additional concentration elective to fulfill the full-year tutorial requirement.

### **\*Psychology 975. Sophomore Tutorial in Cognitive Neuroscience**

Catalog Number: 1806

*Stephen M. Kosslyn and members of the Department*

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

Examines selected issues and phenomena in psychology and cognitive neuroscience, with an emphasis on contemporary research. Special attention given to examining topics from a variety of perspectives, to reading primary sources in the field, and to developing thinking, writing, research, and discussion skills.

*Note:* Designed for joint concentrators in psychology and biology in the Cognitive Neuroscience Track. Students must register for course in person. Registration will be in the Psychology Undergraduate Office on September 22nd for the fall term and on February 2nd for the spring term. Enrollments in sections will be on a first-come, first-served basis. Sophomore Essay required. Letter-graded.

### **\*Psychology 985. Junior Tutorial: Honors Thesis Preparation**

Catalog Number: 2343

*Stephen M. Kosslyn and members of the Department*

*Half course (fall term; repeated spring term). Fall term: Hours to be arranged; Spring term: Hours to be arranged, plus occasional, optional but highly recommended group meetings M., 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.

*Note:* Normally limited to junior psychology concentrators. Admission to course via application (available in Psychology Undergraduate Office). Graded SAT/UNS. Full prospectus or term paper required.

### ***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.

### **Anthropology 266a. Materials in Ancient Societies: Metals**

Catalog Number: 5945

*Nikolaas J. van der Merwe*

*Half course (fall term). To Be Arranged.*

Principles of physical metallurgy; interpretation of metallic microstructures; chemical analysis of metals, alloys, smelting of metallic ores; fabrication of metal artifacts. Emphasis on archaeological and art historical case studies utilizing methodologies from archaeology, ethnography, ethnohistory, and materials science.



*Note:* CMRAE course topics change each year. Sessions held in CMRAE Graduate Lab, MIT 20B-012. This course will begin on Harvard's academic schedule: First meeting on September 21. Course continues spring term as Anthropology 266br.

**\*Psychology 987a. The Interface between Cognitive Neuroscience and Neuropsychology: What Patients Teach Us About Theories of the Mind**

Catalog Number: 1424

*Dara S. Manoach (Medical School) and Margaret G. O'Connor (Medical School)*

*Half course (spring term). Tu., 4–6.*

In this seminar we will evaluate cognitive neuroscience models of brain function using the clinical case study approach. Patients with a variety of neuropsychological syndromes will be presented, discussed, and used to challenge current theories. We will review a variety of assessment techniques including neuropsychological evaluation and neuroimaging. Students will take turns reviewing the recent literature relevant to presented cases.

**\*Psychology 987b. Music, Mind, and Brain**

Catalog Number: 7107

*Mark Tramo (Medical School)*

*Half course (spring term). Th., 6:30–9:30 p.m. EXAM GROUP: 18*

This course takes a multidisciplinary approach to understanding neural systems that govern music perception and cognition. Students expected to master topics in acoustics, music theory, psychophysics, cognitive psychology, auditory development, neurophysiology, neuroanatomy, and neurology. Similarities and differences between music and language with respect to their underlying mental operations and brain mechanisms explored.

**\*Psychology 987c. Multidisciplinary Perspectives on Drug Policy**

Catalog Number: 1082

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*Half course (spring term). Th., 3:30–5:30. EXAM GROUP: 17, 18*

Applies the perspectives of molecular psychiatry, psychology, epidemiology and sociology to the problem of substance abuse, with a special focus on cocaine and other legal drugs. The perspectives illuminate fundamental public policy choices about primary systems we use to respond to substance abuse -- the criminal justice and health care systems -- and will particularly suggest a closer working relationship between these systems, especially in urban poverty areas. The course will also examine the challenges in developing community strategies to address substance abuse. Readings drawn from the literature of neurobiology, psychiatry, psychology, public health, public policy, law and history.

**[\*Psychology 987d (formerly \*Psychology 1055). Social Cognitive Neuroscience: Seminar]**

Catalog Number: 7953

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*Half course (fall term). Th., 10–12. EXAM GROUP: 6, 7*

Explores a handful of topics from the perspectives of social psychology, cognitive psychology, and neuropsychology. For any given phenomenon (e.g., the cognitive control of emotion), social psychology emphasizes phenomenology (what do people do when they want to manage their moods?), cognitive psychology emphasizes information-processing models (how might cognitive



and emotional systems be designed to control each other?), and neuropsychology emphasizes biological underpinnings (where in the brain does emotional control occur?). The seminar offers a multi-level analysis of complex phenomena and attempts to integrate otherwise disparate approaches to similar problems.

*Note:* Expected to be given in 2000–01.

**\*Psychology 987f. The Biology of Conscious States: Waking, Sleeping, and Dreaming**

Catalog Number: 3372

*Robert Stickgold (Medical School)*

*Half course (spring term). Tu., 3–5.*

This course focuses on waking, sleeping, and dreaming as examples of conscious states in both humans and animals. After an initial introduction to the concept of conscious states and the various ways of approaching the study of wake-sleep states, the course spends most of its time reviewing what is known about sleep and dreaming from the perspectives of physiology, psychology, and cognitive neurosciences. It then describes various approaches to understanding the function of sleep and presents several theories as to this function. Finally, it offers an argument for a critical role of sleep and dreaming in memory consolidation and integration, attempts to relate this to the question of the “meaning” of dreams, and ends with a second, more sophisticated review of the nature and function of conscious states.

***Senior Tutorial***

**\*Psychology 990. Senior Tutorial: Honors Thesis in Psychology**

Catalog Number: 3553

*Stephen M. Kosslyn and members of the Department*

*Full course. Hours to be arranged, plus occasional, optional but highly recommended group meetings M., at 4.*

Individual supervised thesis research supplemented with group meetings to discuss major aspects of the thesis process (e.g., organizing, conducting, and presenting research).

*Note:* Required of and limited to honors senior psychology concentrators. Graded SAT/UNS.

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.

*Prerequisite:* Advanced methods course.

**\*Psychology 992. Senior Tutorial: Honors Thesis in Cognitive Neuroscience**

Catalog Number: 4990

*Stephen M. Kosslyn, Jerome Kagan (fall term), and Ken Nakayama.*

*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.

*Note:* Required of and limited to seniors in the Cognitive Neuroscience Track. Track seniors will take this course in lieu of Psychology 990, although they are strongly encouraged to attend group meetings of Psychology 990. Graded SAT/UNS. 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.

*Prerequisite:* An advanced methods course.

**\*Psychology 995. Senior Seminar: General Psychology**

Catalog Number: 5201

*L. Dodge Fernald and members of the Department*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

A capstone course aimed at an integrated review of the field through seminar discussions, oral reports, field experience, practitioner interviews, and independent research. Focus is upon the diverse perspectives in contemporary psychology.

*Note:* Designed for senior concentrators not engaged in an honors thesis.

*Cross-listed Courses*

**Biological Sciences 25 (formerly MCB 25 and Psychology 12). Behavioral Neuroscience Science B-44. Vision and Brain**

**Statistics 100. Introduction to Quantitative Methods**

**Statistics 101. Introduction to Quantitative Methods**

**Statistics 102. Fundamentals of Biostatistics**

**Statistics 104. Introduction to Quantitative Methods**

*For Undergraduates and Graduates*

**\*Psychology 1152 (formerly Anthropology 130). Animal Cognition: Laboratory**

Catalog Number: 1805 Enrollment: Limited to 12. Preference given to Psychology undergraduates and students in the Mind/Brain/Behavior program.

*Marc D. Hauser*

*Half course (spring term). M., 5:30–7:30 p.m., with additional hours to be arranged. 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.

*Prerequisite:* Science B-29 or Biology 22 or permission of instructor.

**\*Psychology 1201 (formerly \*Psychology 2260). Psychopharmacology**

Catalog Number: 6717 Enrollment: Limited to 30

*Joshua Stephen Rodefer*

*Half course (spring term). Tu., 4–6, and a section meeting to be arranged. EXAM GROUP: 18*

Provides an overview of basic pharmacology and neuroscience before covering topics related to preclinical and clinical psychopharmacology. Specifically, examines drugs used in treatment of mental/neurological disorders in addition to those substances that have abuse potential.

*Prerequisite:* Biological Sciences 25 or Psychology 1 or permission of instructor.

**Psychology 1202. Cognition, Emotion, and the Developing Brain**

Catalog Number: 5907



*Kurt W. Fischer (Education) and Francine M. Benes (Medical School)*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

Provides an overview of knowledge about brain and behavior development in human beings across the life cycle. The focus will be normal human development, although there will be discussion of pathology and of findings with animals where relevant. The two instructors bring complementary backgrounds in psychology, human neurology, and education. Topics will include normal neurological development in human beings, cognitive and emotional development, nonlinear dynamics of development, and especially relations between development of brain and behavior.

*Note:* Offered jointly with the School of Education as H-134.

### **Psychology 1203. Functional Neuroimaging: Basic Methods and Results**

Catalog Number: 2876

*Robert L. Savoy*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Functional mapping of the human brain is an area of rapid growth, both scientifically and technologically. This class deals with the methods and experimental results of recent developments in functional neuroimaging: making pictures of the working human brain. The underlying physics and physiology for various methods for monitoring human brain function will be presented. Data analysis, including the creation of “maps” of the localization of brain function, will be examined in detail. Emphasis will be on the techniques of Functional Magnetic Resonance Imaging (fMRI), but all modalities will be discussed. Students will be required to design experiments, in consultation with the instructor.

### **\*Psychology 1251 (formerly Psychology 2270). Neural Networks**

Catalog Number: 3146

*Christiane Linster*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Review of neural network theory and computational neuroscience, with emphasis on realistic models of hippocampal memory and processing. Includes survey of connectionist and computational neuroscience models of hippocampal and cortical processing. Associative memory function, place cells, oscillatory processes and self-organization are some of the topics that will be covered. Comparisons between abstract connectionist models, detailed biophysical models and experimental data will be a major discussion focus in this seminar.

### **[\*Psychology 1252. Neurobiology of Learning and Memory: Seminar]**

Catalog Number: 8580 Enrollment: Graduate students welcome to enroll.

*Mark G. Baxter*

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

Consideration of experimental studies aimed at defining the neural systems involved in learning and remembering different types of information. The primary focus will be research attempting to assign specific mnemonic functions to specific brain areas, and theories attempting to integrate what is known about the biological organization of the brain with the psychological phenomena of learning and memory.

*Note:* Expected to be given in 2000–01.



**\*Psychology 1253. Laboratory in Behavioral Neuroscience**

Catalog Number: 7938 Enrollment: Preference given to psychology concentrators and students in the Mind/Brain/Behavior program.

*Mark G. Baxter*

*Half course (fall term). W., at 1. EXAM GROUP: 6*

Experimental studies of brain-behavior relationships provide an understanding of the organization of function within the central nervous system, as well as a window into potential substrates of brain disorders. Students develop and conduct research projects on the neural basis of behavior. Empirical research is accompanied by a critical reading and discussion of papers on such topics as the neurobiology of learning and memory, functional neuroanatomy, and the biological basis of neurodegenerative disease.

*Prerequisite:* Biological Science 25.

**[Psychology 1301 (formerly Psychology 1430). Human Memory and Cognition]**

Catalog Number: 8377

*Daniel L. Schacter*

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

Surveys current data and theory concerning human memory from both cognitive and neuropsychological perspectives. Topics considered include short-term memory, encoding and retrieval processes, forgetting, schemas and scripts, metamemory, implicit memory, drug effects on memory, amnesic syndromes, and aging memory.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 1.

**Psychology 1302 (formerly Psychology 1500). Psychology of Language**

Catalog Number: 0295

*Alfonso Caramazza*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

An examination of the psychological processes that underlie the use of language. Studies of normal performance as well as research on language impairments in brain-damaged patients are considered. Topics include sentence comprehension and production, reading and writing, and the role of memory, perception, and attention in language processing.

**\*Psychology 1353. Laboratory in Human Cognition**

Catalog Number: 8207

*Daniel J. Simons*

*Half course (spring term). M., 3–6. EXAM GROUP: 8, 9*

Considers all phases of conducting research in cognitive psychology. Students run and modify classic experiments as well as design and conduct original research.

*Prerequisite:* Psychology 13 or permission of instructor.

**[Psychology 1354. Models of Lexical Access: Seminar ]**

Catalog Number: 1463

*Alfonso Caramazza*

*Half course (spring term). .*

Review of current models of lexical access in language production and comprehension.



Experimental evidence with normal and brain-damaged speakers will be considered.

*Note:* Expected to be given in 2000–01.

### **Psychology 1501. Social Psychology of Organizations**

Catalog Number: 0823

*J. Richard Hackman*

*Half course (fall term). Tu., Th., 8:30–10, and a one-hour 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 1502. Psychology Applied to Business**

Catalog Number: 4239

*Philip Stone*

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

Redesigned course examines importance of individual identity, self-esteem, personal strengths and signature themes, levels of engagement, performance standards, reward systems, and organizational cultures in shaping effective job matches and project-team participation. Includes case studies and videos. Open to students without prior background in psychology.

### **[Psychology 1505. Intergroup Relations]**

Catalog Number: 3832

*Karen M. Ruggiero*

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

Are members of minority groups vulnerable to stereotypes? How does prejudice develop? How do minorities cope with discrimination? What are some of the unintended consequences of affirmative action? This lecture course aims to answer questions like these by focusing on the social psychology of relations between societal groups such as the majority, ethnic and racial minorities, and women. An introduction to intergroup relations is given, followed by a systematic review of current theories in intergroup relations. Contemporary issues are then explored, including stereotypes, prejudice and discrimination, and affirmative action.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 1 (may be taken concurrently).

### **\*Psychology 1506. Social Relationships**

Catalog Number: 9327

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

Provides an overview of the empirical study of friendships, dating relationships, and marriages. Topics include differentiating types of social relationships; processes of relationships formation, maintenance, and dissolution; relationships across the lifespan; individual differences (e.g. attachment style, sex, sexual orientation); and affective, cognitive, and social processes involved



in relationships (e.g. interpersonal attraction, jealousy, social power, communication). Issues of measurement assessment, and hypothesis testing addressed throughout the course. Draws from diverse theoretical perspectives social psychology (e.g. social roles, equity, social exchange models) and from other disciplines, including evolutionary biological approaches (reciprocal altruism, mate choice) and economics. Readings cover relationships in a variety of human societies.

*Prerequisite:* Psychology 1, 13, 15, 16, or 17 or permission of the instructor.

**[Psychology 1551. Themes and Controversies in Social Cognition: Seminar]**

Catalog Number: 3829 Enrollment: Limited to 15.

*Daniel T. Gilbert*

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

Explores theory and research on cognitive processes in social psychology. Rather than focusing on the details of particular methods and models, the seminar concentrates instead on scientific answers to “big questions,” such as: How does the mind construct reality? Can we, do we, and should we control our thoughts and actions? How do we gain knowledge of ourselves and others? What does it mean to be rational, and is this something to strive for? Can we avoid thinking in socially pernicious ways, and if not, can we be held responsible for the consequences of our thoughts? Can we fool ourselves about ourselves, and if so, is this a bad thing?

*Note:* Expected to be given in 2000–01.

*Prerequisite:* A course in social or cognitive psychology.

**[\\*Psychology 1558r. Supervised Research Experience in Social Psychology](#)**

Catalog Number: 4067

*Sharon H. Kramer*

*Half course (fall term; repeated spring term). Hours to be arranged. First fall term meeting on Friday, September 24 at 1:00. First spring term meeting is on Friday, February 4th at 1 p.m.*

Provides students with experience conducting social psychology research under the direct supervision of a graduate student mentor, each of whom offers a unique program of work and instruction. Students perform literature searches, create experimental materials, recruit and test human subjects, code and analyze data, and so on. This course affords students a “hands on” experience of the research process in social psychology and an opportunity to work closely with a graduate student mentor.

**[\*Psychology 1559. Interpersonal Influence and Communication: Seminar]**

Catalog Number: 4489 Enrollment: Limited to 15.

*Nalini Ambady*

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

Surveys influence and communication in dyadic relationships. Topics include nonverbal and verbal communication, universals of politeness, gender and culture, impression management, deception, and influence and communication in various dyadic relationships such as teacher-student, manager-employee, and romantic and marital relationships.

*Note:* Expected to be given in 2000–01. Graduate students are welcome to enroll.

**[\\*Psychology 1560r \(formerly Psychology 2650r\). Interpersonal Influence and Communication: Laboratory](#)**



Catalog Number: 6494

*Nalini Ambady*

*Half course (fall term; repeated spring term). M., 2–4. EXAM GROUP: 7, 8*

Laboratory course in interpersonal influence and communication. Students will conduct independent research under the supervision of the instructor.

*Note:* Undergraduates and graduate students interested in examining communication, interpersonal influence, social identity, and culture and emotion are encouraged to enroll.

*Prerequisite:* Psychology 1559 or permission of the instructor.

**[\*Psychology 1561. Social Stigma: Seminar]**

Catalog Number: 7288 Enrollment: Limited to 15

*Karen M. Ruggiero*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 6, 7*

Examines current advances in the social psychology of stigma, primarily from the perspective of the stigmatized. Topics include an introduction to stigma; attributional ambiguity and perceptions of discrimination; stereotype threat; legitimacy, ideology, and reactions to stigma; social comparison; group identification; stigma in social interaction; stigma and disidentification; and affirmative action. The goal of the course is to stimulate creative thinking and original research on this topic.

*Note:* Expected to be given in 2000–01.

**\*Psychology 1563. Psychological Themes in Text: Seminar**

Catalog Number: 9275 Enrollment: Limited to 15

*Philip Stone*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Analyses of themes reflecting motives, attitudes, cognitive styles, attributional tendencies, and perceived interpersonal relationships, as found in interview and focus-group transcripts, open-ended survey responses, corporate reports, and editorials and newspaper accounts. Enlists computer-aided procedures for analyzing theme patterns within large amounts of text.

*Note:* Open also to undergraduate and graduate students outside of Psychology.

**\*Psychology 1564. Designs for a Positive Psychology: Seminar**

Catalog Number: 6442

*Philip Stone*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Builds upon an American Psychological Association initiative to foster psychological research with applications for developing flourishing, fulfilling lives as well as thriving families and communities. Student projects will each study a domain of psychology for its potential contributions to a well-grounded, valid positive psychology.

**\*Psychology 1651 (formerly \*Psychology 1915). Social Organization of Children's Thought: Seminar**

Catalog Number: 1267 Enrollment: Limited to 24

*Sheldon H. White*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*



Discussion of current research and theoretical literature dealing with the social frameworks and organizations guiding children's cognitive development.

**Psychology 1653 (formerly Psychology 1480). Cognitive Development: Seminar**

Catalog Number: 6712 Enrollment: Limited to 15

*Michelle D. Leichtman*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Considers the development of cognition across the lifecourse, with emphasis on infancy and early childhood. Topics include memory, language, intelligence, culture, social cognition, and contextual influences. Examines contrasting theoretical perspectives on the nature of cognitive development.

*Prerequisite:* Psychology 16 or concurrent enrollment, or permission of instructor.

**[\*Psychology 1654 (formerly Psychology 1601). The Age of Reason]**

Catalog Number: 6842

*Sheldon H. White*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

Discusses research literature dealing with developmental changes in children near the age of schooling. A number of Western and non-Western societies conceive of this period as an age of reason. So, too, do some prominent theorists of human development. But the research now raises questions and holds out other possibilities, and these have interesting theoretical and practical implications.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Two or more courses in psychology, or permission of the instructor.

**Psychology 1801. Anxiety Disorders**

Catalog Number: 4906 Enrollment: Limited to 25

*Richard J. McNally*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

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:* For both graduate and advanced undergraduate students.

*Prerequisite:* Psychology 18.

**[Psychology 1802. Psychophysiology]**

Catalog Number: 3596

*Patricia Deldin*

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

The field of psychophysiology is concerned with the measurement of physiological responses as they relate to behavior. This course focuses on basic psychophysiological measurements (e.g., EEG, EKG, etc.) and their utility in understanding all areas of psychology.

*Note:* Expected to be given in 2000–01. Graduate students are encouraged to attend.

**Psychology 1803. Eating Disorders**

Catalog Number: 4992 Enrollment: Limited to 20



*Pamela Kohl Keel*

*Half course (spring term). Th., 4–5:30. EXAM GROUP: 18*

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:* May not be taken Pass/Fail.

*Prerequisite:* An introductory course in psychology.

### **[Psychology 1805. Personality and Personality Disorders]**

Catalog Number: 0290

*Mark F. Lenzenweger*

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

Focuses on interface between normal personality and personality disorder. Particular attention to the DSM–IV defined personality disorders. Current theoretical models of personality disorder will be surveyed and the possible connections with models of normal personality explored. Examines this theoretical and empirical literature from multiple vantage points and levels of analysis, such as the genetic, neurobiological, cognitive, emotional, temperament, trait, and familial.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 1, 17, and 18.

### **Psychology 1806. Sex, Gender, and Psychopathology**

Catalog Number: 4518

*Lauren Korfine*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines the way in which sex and gender impact the expression of severe psychopathology. Explores biological, psychological, and cultural factors associated with sex and gender as they influence the epidemiology, phenomenology, etiology, and course of illness in major forms of psychopathology: specifically, schizophrenia, major affective illness, anxiety disorders, eating disorders, and personality disorders. These topics will be examined through the frameworks of psychological science and feminism in an attempt to understand the effects that gender and science have on one another and the ways in which they influence the understanding of mental illness.

### **\*Psychology 1851 (formerly \*Psychology 1950). Advanced Psychopathology: Seminar**

Catalog Number: 6392 Enrollment: Limited to 20

*Jill M. Hooley*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Builds upon the material presented in Psychology 18. Provides exposure to current and controversial topics in psychopathology through a focus on recent empirical and theoretical developments. Issues reflect the current state of the field but typically include new research on schizophrenia, mood, anxiety and personality disorders, and issues relating to diagnostic classification.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Psychology 18.



**\*Psychology 1854. Schizophrenia: Seminar**

Catalog Number: 2771 Enrollment: Limited to 25

*Jill M. Hooley*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

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: Seminar]**

Catalog Number: 6867

*Patricia Deldin*

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

Examines current theory and research on the etiology and treatment of mood disorders (e.g., unipolar and bipolar disorder, dysthymia). Cognitive, behavioral, and biological approaches are emphasized.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 1 and Psychology 18.

**[\*Psychology 1856r. Laboratory in Psychophysiology]**

Catalog Number: 7521

*Patricia Deldin*

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

An advanced psychophysiology course designed to give students “hands-on” psychophysiology research experience. Theoretical psychophysiology background required.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 1 and Psychology 1802, or permission of instructor.

**Psychology 1858. Borderline Personality Disorder: Seminar**

Catalog Number: 2035

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Examines the theoretical and empirical literature concerned with the emotional, cognitive, and interpersonal characteristics associated with borderline personality disorder. Focuses on early and modern clinical perspectives, as well as the interface with emotion and personality research relevant to the expression of these traits. Recent empirical developments from neurobiological, psychological, and cultural perspectives will be emphasized to aid in an understanding of the classification, etiology, course of illness, and phenomenology of this disorder and associated characteristics.

*Prerequisite:* Psychology 18.

**Psychology 1859. Trauma and Psychopathology: Seminar**

Catalog Number: 6023

*Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16*

Examines relationships between the experience of trauma and the subsequent development of severe psychopathology from biological, psychological, and cultural perspectives. Attention will



be paid to defining and classifying traumatic experiences, demonstrating the complex pathways that exist between trauma and psychopathology, and identifying factors that may facilitate or block the expression of severe psychopathology in trauma survivors.

*Prerequisite:* Psychology 18.

**Psychology 1901 (formerly Psychology 1000). Methods of Behavioral Research**

Catalog Number: 3811

*Sharon H. Kramer*

*Half course (spring term). Tu., Th., 1:30–3, and a one-hour section meeting to be arranged.*

*EXAM GROUP: 15, 16*

Theoretical and practical introduction to planning, conducting, reporting, and evaluating research in the social and behavioral sciences. Students conduct their own research that can lead to (and become part of) their thesis.

*Prerequisite:* Statistics 100 or 101 or 102 or 104 or the equivalent.

**Psychology 1951 (formerly Psychology 1990). Intermediate Quantitative Methods**

Catalog Number: 8674

*Nalini Ambady*

*Half course (fall term). Tu., Th., 2–4, and a one-hour section meeting to be arranged. EXAM*

*GROUP: 16, 17*

Emphasis on the analysis of variance and contrasts.

*Prerequisite:* Statistics 100 or 101 or 102 or 104 or the equivalent.

**Psychology 1952. Multivariate Analysis in Psychology**

Catalog Number: 6191

*Mark G. Baxter*

*Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11*

Multiple regression analysis, analysis of variance, analysis of covariance, measures of partial association, factor analysis. Introduction to multidimensional scaling, structural equations modeling, and discriminant analysis.

*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***

**Biology 174. Topics in Behavioral Biology: The Evolution of Cooperation**

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

**[History of Science 176. Evolution and the Mind: Conference Course]**

**[History of Science 177. Stories Under the Skin: The Mind-Body Connection in Modern Medicine]**

**Science B-29. Human Behavioral Biology**

***Primarily for Graduates***

**Psychology 2010. Contemporary Topics in Psychological Research**

Catalog Number: 6515



*Daniel L. Schacter and members of the Department*

*Half course (fall term). M., Th., 4–6. EXAM GROUP: 9, 18*

Advanced survey of research topics in experimental, personality, developmental, 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

*Ken Nakayama and members of the Department*

*Full course (spring term). Tu., Th., 1–4. EXAM GROUP: 15, 16, 17*

Advanced survey of research topics in cognition, brain, and behavior.

*Note:* Required of and limited to first-year graduate students in the CBB program.

**\*Psychology 2040. Contemporary Topics in Psychopathology**

Catalog Number: 4628 Enrollment: Limited to doctoral candidates.

*Jill M. Hooley*

*Half course (fall term). Tu., 10–12. EXAM GROUP: 12, 13*

Advanced survey of research topics in experimental psychopathology.

*Note:* Expected to be omitted in 2000–01. Required for first-year or second year graduate students in the psychopathology area.

**\*Psychology 2050 (formerly Psychology 1001). History of Psychology**

Catalog Number: 3378

*Sheldon H. White*

*Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

A study of the organization of psychology in the late 19th and 20th centuries. Early psychologists—James, Hall, Dewey, Titchener, and Thorndike—initiate research programs in sensation and perception, the study of exceptional mental states, and several forms of educational psychology. Psychologies of personal and social design emerge, centering at first on the naturalistic programs of the “brass instrument laboratories” and theoretical behaviorism, but more and more giving a place to cognitive, developmental, personality, clinical, and social programs.

**Psychology 2090. Issues in Development**

Catalog Number: 6459

*Jerome Kagan*

*Half course (spring term). M., at 1. EXAM GROUP: 6*

An overview of selected issues in development, concentrating on research data and theory in cognitive, affective, and social development during the first ten years. Emphasis given to infancy, stability, role of biology, and meaning of evidence.

*Note:* Open to senior concentrators in Psychology with a prior course in human development and with permission of instructor.

**[\*Psychology 2140. Developmental Neuropsychology]**

Catalog Number: 3626 Enrollment: Limited to 15

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

Considers advances in the understanding of behavioral development from the neuroscientific approach. Development in both perception and cognition used to evaluate the relevant contribution of intrinsic and extrinsic variables in the brain-behavior relationship.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Background in behavioral and developmental neuroscience recommended.

### **Psychology 2150. Memory Development: Seminar**

Catalog Number: 4765

*Michelle D. Leichtman*

*Half course (fall term). W., 9–11. EXAM GROUP: 2, 3*

Examines basic issues in the development of the memory system across the lifecourse. Topics include infant memory, childhood amnesia, suggestibility, affect and memory, strategy development, metamemory, memory across cultures, and the development of memory in various modalities. Considers memory in applied as well as laboratory contexts.

*Note:* Open to advanced undergraduates with permission of instructor.

### **\*Psychology 2253r. Behavioral Neuroscience: Research Seminar**

Catalog Number: 1146

*Mark G. Baxter*

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

*Note:* Open only to graduate students and undergraduates involved in research in the instructor's laboratory.

### **\*Psychology 2260. Categories and Concepts**

Catalog Number: 8756 Enrollment: Limited to 15

*Alfonso Caramazza and Marc D. Hauser*

*Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8*

This course explores the nature of human and non-human animal categories and concepts. We use the theoretical insights and methods from cognitive psychology, neuropsychology, philosophy, evolutionary biology, developmental psychology, and ethology to address such questions as: Do particular conceptual representations require language? How is conceptual knowledge organized in the brain? Are there innate concepts? Do animals have abstract conceptual representation? How did human conceptual representations evolve? Are conceptual representations based on features, prototypes, or theories? These questions will be explored by reviewing current papers, as well as through discussion with invited speakers.

*Prerequisite:* Psychology 13 or Science B-29, or permission of instructor.

### **Psychology 2300r (formerly Psychology 2300). Perception, Cognition, and Representation: Seminar**

Catalog Number: 8369

*Daniel J. Simons*

*Half course (spring term). Th., 12–2. EXAM GROUP: 14, 15*

Discussion of issues in perception, attention, and cognition.

*Note:* Undergraduates may enroll with permission of the instructors.



**\*Psychology 2335r (formerly \*Psychology 3380r). Language: Research Seminar**

Catalog Number: 5121

*Alfonso Caramazza*

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

**[\*Psychology 2340. Topics in Cognitive Neuropsychology]**

Catalog Number: 3853

*Alfonso Caramazza*

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

Current developments in various domains of cognitive neuropsychology are reviewed. Topics include the various forms of aphasia, dyslexia, agraphia, anomia, agnosia, and visual neglect.

Specific topics vary from year to year.

*Note:* Expected to be given in 2000–01.

**[\*Psychology 2345r. Laboratory in Cognitive Neuropsychology]**

Catalog Number: 4103

*Alfonso Caramazza*

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

Patterns of perceptual and cognitive impairments resulting from brain damage are used to inform theories of normal cognitive functioning. Students learn to design experiments for testing brain-damaged subjects, and to analyze, interpret, and present results.

*Note:* Expected to be given in 2000–01.

**\*Psychology 2350. Memory and Amnesia: Seminar**

Catalog Number: 6014

*Daniel L. Schacter*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Examines memory and amnesia from cognitive, neuropsychological, evolutionary, and psychobiological perspectives. Focuses on the idea that memory problems can be divided into seven fundamental types: transience, absent-mindedness, blocking, misattribution, suggestibility, bias, and persistence.

*Note:* Open to undergraduates with permission of instructor.

**\*Psychology 2353r. Visual Cognition: Research Seminar**

Catalog Number: 6563

*Daniel J. Simons*

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

*Note:* Open only to graduate students and undergraduates involved in research in the instructor's laboratory.

**Psychology 2355r. Laboratory in Cognitive Neuroscience: Seminar**

Catalog Number: 1119

*Stephen M. Kosslyn*

*Half course (fall term; repeated spring term). Fall: M., at 4:30; Spring: M., at 2. EXAM GROUP: Fall: 9; Spring: 7*

Focuses on how one asks and answers questions about visual cognition. Students are involved in



all phases of conducting experiments and learn the fundamentals of experimental design and data analysis. Students formally present their research to the seminar as well as work independently.  
*Prerequisite:* Statistics or Psychology 13.

**\*Psychology 2400. Cognitive Psychology and Emotional Disorders**

Catalog Number: 6138 Enrollment: Limited to graduate students.

*Richard J. McNally*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

This seminar concerns research and theory on the application of cognitive psychology methods to the understanding of anxiety and mood disorders.

**[Psychology 2420. Cognitive-Behavioral Treatment of Psychological Disorders]**

Catalog Number: 8446

*Richard J. McNally*

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

Covers current cognitive-behavioral approaches to the treatment of common psychological disorders in children and adults. Emphasis is on the practical aspects of treatment, and on treatment outcome research. Theoretical underpinnings of cognitive-behavioral therapy are also addressed.

*Note:* Expected to be given in 2000–01. Limited to graduate students.

**Psychology 2440. Schizotypy and the Schizophrenia Spectrum**

Catalog Number: 7675 Enrollment: Limited to graduate students.

*Mark F. Lenzenweger*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Advanced graduate seminar that explores, in depth, the origins and development of the schizophrenia-spectrum concept as well as models of schizotypy and schizophrenia liability. Emphasis is on the integration of theoretical models with available empirical data from multiple vantage points including phenomenology, cognition, neuropsychology, neurobiology, and genetics. mathematical approaches to model testing will also be covered.

**[\*Psychology 2460. Diagnostic Interviewing]**

Catalog Number: 4157 Enrollment: Limited to 12. Graduate students only.

*Jill M. Hooley*

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

Focuses on the development of clinical interviewing and diagnostic skills through exposure to the Structured Clinical Interview for DSM-III-R (SCID-R) and other research-oriented diagnostic interviews. Examines the major issues in diagnosis and assessment and provides exposure to syndromes of psychopathology via videotapes and audiotapes.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 18.

**[Psychology 2462. Diagnostic Interviewing: Practicum]**

Catalog Number: 3840 Enrollment: Limited to graduate students.

*Jill M. Hooley*

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



Offers students who have completed Psychology 2460 supervised experience in psychiatric diagnosis. Students will assess Axis I and Axis II disorders in clinical and non-clinical samples. Students will be required to travel to practicum site(s) to conduct interviews between class meetings.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 18 and Psychology 2460.

**[\*Psychology 2480. Human Neuropsychology/Neuroanatomy: Seminar]**

Catalog Number: 4335

*William P. Milberg (Medical School)*

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

An introduction to the anatomical structure of the human brain with an emphasis on neuropsychological correlates and the cortical representation of higher order cognitive functions. Consists of a gross brain dissection laboratory followed by discussions of descriptive and theoretical aspects of clinical neuropsychological phenomena.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 2010.

**Psychology 2482. Neuropsychological Assessment**

Catalog Number: 3669

*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:* Enrollment limited to 12. Preference to graduate students who have completed Psychology 2010 and Psychology 2480; if space is available, qualified undergraduates who have taken Biological Sciences 25 may enroll with permission of instructor.

*Prerequisite:* Psychology 2010; \*Psychology 2480 recommended.

**[Psychology 2484. Personality: Empirical, Theoretical, and Clinical Perspectives]**

Catalog Number: 8260

*Drew Westen (Medical School)*

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

Examines three broad approaches to personality: psychodynamic, social-cognitive/cognitive-behavioral, and trait theories. The course situates these approaches in historical, philosophical, and methodological perspective, and focuses on the roles of biology and culture in shaping personality.

*Note:* Expected to be given in 2000–01. Open only to graduate students in the Department of Psychology.

**[\*Psychology 2485. Assessment of Personality and Psychopathology]**

Catalog Number: 7253

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Examines issues of measurement and inference in personality and psychopathology, with a focus on both objective testing and qualitative and quantitative interpretation of narrative data. Exposes



students to basic instruments, such as the MMPI-II, WAIS-III, Rorschach, TAT, structured interviews, and clinical interviews. Focuses on the relation between interpretive/clinical inference and objective measurement.

*Note:* Expected to be given in 2000–01.

**\*Psychology 2500a (formerly \*Psychology 2560). Advanced Social Psychology I: Intra-Individual Processes**

Catalog Number: 1002 Enrollment: Limited to 15

*Nalini Ambady*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

Advanced survey of current research and theory in social psychology dealing with intra-individual processes. Topics will include the self, social cognition, social inference, personality, affect, mood, and emotion.

*Note:* Expected to be omitted in 2000–01. Advanced undergraduates may enroll with permission of instructor. Required of first- or second-year graduate students in Social Psychology.

*Prerequisite:* Psychology 1901 or equivalent.

**[Psychology 2500b. Advanced Social Psychology II: Interpersonal and Group Processes]**

Catalog Number: 5292

*Karen M. Ruggiero*

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

Advanced survey of classic and contemporary theory and research on the social psychology of interpersonal and group processes. Topics for interpersonal processes include altruism; aggression; nonverbal communication; interpersonal attraction; interpersonal expectancies; and social influence. For group processes, the topics will be small groups; gender; intergroup relations; prejudice, discrimination, and stigma; intergroup conflict and culture.

*Note:* Expected to be given in 2000–01. Required of first- or second-year graduate students in Social Psychology.

*Prerequisite:* Psychology 1901 or equivalent.

**[\*Psychology 2520r. Research in Intergroup Relations and Social Cognition]**

Catalog Number: 4928

*Karen M. Ruggiero*

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

An advanced course designed to give students research experience in intergroup relations and social cognition. Students will conduct independent research under the supervision of the instructor.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Psychology 1505 and 1561.

**[\*Psychology 2580r. Affective Forecasting: Research Seminar]**

Catalog Number: 4262

*Daniel T. Gilbert*

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

*Note:* Expected to be given in 2000–01.



**[\*Psychology 2630. Social Behavior in Organizations: Seminar]**

Catalog Number: 0991 Enrollment: Limited.

*J. Richard Hackman*

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

The social psychology of organizations. Topics include how groups and organizations affect individual members and vice versa; interpersonal and group processes; work team effectiveness; power and political dynamics in organizations; intergroup relations; contextual influences on behavior in organizations; group and organizational leadership.

*Note:* Expected to be given in 2001–02. Open to doctoral students only.

**\*Psychology 2660r (formerly Psychology 3040r). Research Seminar in Mindfulness Theory**

Catalog Number: 4909

*Ellen J. Langer*

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

Mindfulness/mindfulness theory as it is compared to relevant current theories in social and cognitive psychology and as explored in applied settings. Experimental research required.

**\*Psychology 2670a (formerly \*Psychology 1553a). Decision Making and Perceived Control**

**I**

Catalog Number: 1193 Enrollment: Limited to 15

*Ellen J. Langer*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

Theory and research address the following topics as they relate to decision making: the illusion of control, predictability, actual vs. perceived control, internal vs. external control, risk taking, and mindfulness theory. Topics on relinquishing control include learned helplessness, obedience to authority, and mindlessness theory. These topics are examined in a variety of settings, including medicine, education, business organizations, and the political arena.

*Note:* Qualified undergraduates welcome to enroll.

**\*Psychology 2670b (formerly \*Psychology 1553b). Decision Making and Perceived Control**

**II**

Catalog Number: 3434

*Ellen J. Langer*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

The deeper theoretical and experimental issues pertaining to control and mindfulness, as defined in \*Psychology 2670a, are explored. Experimental research is required.

*Note:* Qualified undergraduates welcome to enroll.

*Prerequisite:* \*Psychology 2670a.

**[Psychology 2800. Psychometric Laboratory]**

Catalog Number: 9326

*Mark F. Lenzenweger*

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

Covers basic psychometric theory as well as methods that are essential for reliable and valid measurement. Concepts such as reliability, validity, and generalizability reviewed. The techniques used to create (e.g., item writing, content validity) and evaluate (e.g., item analysis,



construct validation) a scale surveyed in detail.

*Note:* Expected to be given in 2001–02. Qualified undergraduates may enroll with permission of instructor.

*Prerequisite:* Statistics (Psychology 1951).

### **Psychology 2900. Professional Ethics**

Catalog Number: 6702 Enrollment: Limited to graduate students.

*Pamela Kohl Keel*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Examines ethical principles and legal issues concerning applied psychology in general, and clinical psychology in particular. The ethical dilemmas faced by psychologists in a variety of roles will be discussed, with a particular emphasis on practicing psychologists and academicians. Key legal principles and precedent-setting legal decisions will be covered.

### ***Cross-listed Courses***

**[\*History of Science 278. In Search of Mind: Seminar]**

### ***Graduate Courses of Reading and Research***

#### **\*Psychology 3010. Special Reading and Research**

Catalog Number: 7858

*Nalini Ambady 1528, Mark G. Baxter 1364, Alfonso Caramazza 1871, Patrick Cavanagh 2447, Patricia Deldin 1692 (on leave 1999-00), Daniel T. Gilbert 2359 (on leave 1999-00), J. Richard Hackman 1504, Marc D. Hauser 3347, Jill M. Hooley 1191, Jerome Kagan 2243 (on leave fall term), Pamela Kohl Keel 2099, Stephen M. Kosslyn 7836, Ellen J. Langer 4967, Michelle D. Leichtman 3438, Mark F. Lenzenweger 1179, Richard J. McNally 2978, Ken Nakayama 2558, Karen M. Ruggiero 2361 (on leave 1999-00), Daniel L. Schacter 2805, Daniel J. Simons 3087, Philip Stone 2275, and Sheldon H. White 2930 (on leave 1999-00)*

#### **\*Psychology 3020. Direction of Doctoral Dissertations**

Catalog Number: 4492

*Nalini Ambady 1528, Mark G. Baxter 1364, Alfonso Caramazza 1871, Patrick Cavanagh 2447, Patricia Deldin 1692 (on leave 1999-00), Daniel T. Gilbert 2359 (on leave 1999-00), J. Richard Hackman 1504, Marc D. Hauser 3347, Jill M. Hooley 1191, Jerome Kagan 2243 (on leave fall term), Pamela Kohl Keel 2099, Stephen M. Kosslyn 7836, Ellen J. Langer 4967, Michelle D. Leichtman 3438, Mark F. Lenzenweger 1179, Richard J. McNally 2978, Ken Nakayama 2558, Karen M. Ruggiero 2361 (on leave 1999-00), Daniel L. Schacter 2805, Daniel J. Simons 3087, Philip Stone 2275, and Sheldon H. White 2930 (on leave 1999-00)*

Members of the Department and others listed under \*Psychology 3010 direct doctoral dissertations.

#### **\*Psychology 3100. Research Methodology**

Catalog Number: 8552

*J. Richard Hackman 1504*

*Half course (spring term). M., W., 10–12. EXAM GROUP: 3, 4*



Covers all major steps in conducting an empirical research project, with emphasis on studies that involve human participants. Topics include finding and formulating research problems; research design strategies; developing and validating concepts; designing and assessing empirical measures and manipulations; issues in data collection, analysis, and interpretation; and writing and publishing research reports.

**\*Psychology 3330ar. Memory: Research Seminar**

Catalog Number: 0141

*Daniel L. Schacter 2805*

*Half course (fall term). F., at 12.*

*Note:* Expected to be omitted in 2000–01. Open only to students involved in research.

**\*Psychology 3330br (formerly \*Psychology 3330). Memory: Research Seminar**

Catalog Number: 6989

*Daniel L. Schacter 2805*

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

*Note:* Open only to students involved in research.

**\*Psychology 3360r (formerly \*Psychology 3360ar). Current Topics in Vision and Sensory Processes**

Catalog Number: 0604

*Ken Nakayama 2558*

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

**\*Psychology 3420r. Research Workshop in Social Psychology**

Catalog Number: 7610

*J. Richard Hackman 1504 and members of the Faculty*

*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 the Social Psychology Program at Harvard, as well as visiting speakers. The course is required of first-year students enrolled in the Social Psychology Program. The course is closed to all but those students in the Fall, and is open to all graduate students enrolled in the Social Psychology Program in the Spring.

**[\*Psychology 3440. Current Research in Social and Organizational Psychology]**

Catalog Number: 7014

*J. Richard Hackman 1504*

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

Explores emerging empirical, theoretical, and methodological trends in social and organizational psychology through the intensive analysis of very recent journal articles and research monographs.

*Note:* Expected to be given in 2001–02.

*Prerequisite:* At least two doctoral-level courses in social psychology or organizational behavior, at least one graduate-level course in research methodology, and permission of the instructor.



**\*Psychology 3490a. Analysis of Psychological Data: Issues and Examples**

Catalog Number: 0652

*John Barnard 1916, Mark F. Lenzenweger 1179, and Donald B. Rubin 7966 (on leave spring term)*

*Half course (fall term; repeated spring term). Th., 12–2.*

**\*Psychology 3490b. Analysis of Psychological Data: Issues and Examples**

Catalog Number: 0660

*John Barnard 1916, Mark F. Lenzenweger 1179, and Donald B. Rubin 7966 (on leave spring term)*

*Half course (fall term; repeated spring term). Th., 12–2.*

**\*Psychology 3550r. Teaching Psychology**

Catalog Number: 0853

*Stephen M. Kosslyn 7836*

*Half course (fall term; repeated spring term). W., at 12.*

*Note: Limited to and required of Sophomore Tutors.*

**\*Psychology 3555. Instructional Styles in Psychology**

Catalog Number: 6831

*Stephen M. Kosslyn 7836, J. Douglas Willen 2873 and members of the Department*

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

*Note: Normally required of and limited to department graduate students who are first-time teaching fellows.*

**Psychology 3560 (formerly \*Psychology 2900). The Real World**

Catalog Number: 5482

*Stephen M. Kosslyn 7836, Patrick Cavanagh 2447, and J. Richard Hackman 1504*

*Half course (spring term). F., at 2.*

Orientation of students to the world after graduate school. Reviews basic survival skills. Some of these skills are of immediate use (such as those pertaining to teaching), and some become useful only when the student is preparing to enter the job market (such as how to give a job talk, how to write a vita, how to write a grant proposal).

*Note: Limited to graduate students in Psychology.*

## Public Policy

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Committee on Higher Degrees in Public Policy*



Robert H. Bates, Eaton Professor of the Science of Government (*Chair*)  
Arthur I. Applbaum, Associate Professor of Public Policy (*Kennedy School*)  
Christopher N. Avery, Assistant Professor of Public Policy (*Kennedy School*)  
L. Jean Camp, Assistant Professor in Public Policy (*Kennedy School*)  
William C. Clark, Sidney Harman Professor of International Science, Public Policy, and Human Development (*Kennedy School*)  
Jerry R. Green, John Leverett Professor in the University and the David A. Wells Professor of Political Economy  
William W. Hogan, Thornton Bradshaw Professor of Public Policy and Management (*Kennedy School*) (*ex officio*)  
Thomas Kane, Associate Professor of Public Policy (*Kennedy School*)  
David C. King, Associate Professor in Public Policy (*Kennedy School*)  
Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science (*ex officio*)  
Mark H. Moore, Daniel and Florence Guggenheim Professor of Criminal Justice, Policy and Management (*Kennedy School*)  
Katherine Newman, Ford Foundation Professor of Urban Studies (*Kennedy School*)  
Robert D. Putnam, Stanfield Professor for International Peace  
Dani Rodrik, Rafiq Hariri Professor of International Political Economy (*Kennedy School*)  
F. Michael Scherer, Larson Professor of Public Policy and Management (*Kennedy School*)  
James H. Stock, Professor of Political Economy (*Kennedy School*)  
Shang-Jin Wei, Associate Professor of Public Policy (*Kennedy School*)  
Jeffrey G. Williamson, Laird Bell Professor of Economics (*ex officio*)  
William Julius Wilson, Harvard University Professor and Malcolm Wiener Professor of Social Policy (*Kennedy School*)  
David A. Wise, John F. Stambaugh Professor of Empirical Analysis (*Kennedy School*)  
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.

Applicants who are currently in a Masters degree program in a related field, or who have completed a Masters degree, are strongly urged to apply directly to the Kennedy School for predoctoral fellowships. Students without a Masters degree generally apply first to the MPP or MPA program, and then to the predoctoral program at the end of their first term in residence. Through careful selection of courses, requirements for the predoctoral program can usually be completed concurrently with those of the MPP and MPA programs.

All Ph.D. 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.

## The Study of Religion

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on the Study of Religion*

David D. Hall, Professor of American Religious History on the Bartlett and Emerson Funds  
(*Divinity School*) (*Chair*)  
 Gary Anderson, Professor of Hebrew Bible (*Divinity School*)  
 Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Culture  
 François Bovon, Frothingham Professor of the History of Religion (*Divinity School*) (*Director of Th.D Studies*)  
 Sarah Coakley, Edward Mallinckrodt, Jr. Professor of Divinity (*Divinity School*)  
 Harvey G. Cox, Jr., Victor S. Thomas Professor of Divinity (*Divinity School*)  
 Diana L. Eck, Professor of Comparative Religion and Indian Studies  
 Francis Fiorenza, Charles Chauncey Stillman Professor of Roman Catholic Theological Studies  
(*Divinity School*)  
 Peter J. Gomes, Plummer Professor of Christian Morals (*Divinity School*)  
 William A. Graham, Jr., Professor of the History of Religion and Islamic Studies  
 Jo Ann Hackett, Professor of the Practice of Biblical Hebrew and Northwest Semitic Epigraphy  
 Charles Hallisey, John L. Loeb Associate Professor of the Humanities  
 James T. Kloppenberg, Professor of History (*on leave spring term*)  
 David Lamberth, Assistant Professor of Theology (*Divinity School*)  
 Kimerer LaMothe, Lecturer on the Study of Religion (*Head Tutor*)  
 Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages  
 Kimberley C. Patton, Assistant Professor in the Comparative and Historical Study of Religion  
(*Divinity School*)  
 Hilary Putnam, Cogan University Professor  
 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 Professor of Theology and Contemporary Change (*Divinity School*)



***Other Faculty Offering Instruction in the Study of Religion***

Ellen Aitken, Visiting Assistant Professor of New Testament (*Divinity School*)  
 Margaret Alexiou, George Seferis Professor of Modern Greek Studies and Professor of Comparative Literature (*on leave spring term*)  
 Clarissa W. Atkinson, Senior Lecturer (*Divinity School*)  
 Linda L. Barnes, Visiting Lecturer (*Divinity School*)  
 Alain Blomart, Visiting Lecturer (*Divinity School*)  
 Ann D. Braude, Senior Lecturer in American Religious History (*Divinity School*)  
 Edwin Bryant, Lecturer on the Study of Religion  
 Allen D. Callahan, Assistant Professor of New Testament and Early Christian Studies (*Divinity School*) (*on leave fall term*)  
 John B. Carman, Parkman Professor of Divinity and Professor of Comparative Religion (*Divinity School*)  
 Alan Dershowitz, Felix Frankfurter Professor of Law (*Law School*)  
 Arthur J. Dyck, Mary B. Saltonstall Professor of Population Ethics (*Public Health and Divinity School*)  
 Stephen J. Gould, Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and Professor of Geology  
 Paul D. Hanson, Florence Corliss Lamont Professor of Divinity (*Divinity School*)  
 Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society  
 Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*on leave fall term*)  
 Joseph C. Harris, Professor of English and Folklore  
 J. Bryan Hehir, Professor of the Practice in Religion and Society (*Divinity School*)  
 Albert Henrichs, Eliot Professor of Greek Literature  
 Evelyn Brooks Higginbotham, Professor of History and of Afro-American Studies (*on leave 1999-00*)  
 William R. Hutchison, Charles Warren Professor of the History of Religion in America (*Divinity School*) (*on leave fall term*)  
 Karen L. King, Professor of New Testament Studies and the History of Ancient Christianity (*Divinity School*)  
 Helmut H. Koester, John H. Morison Professor of New Testament Studies and Winn Professor of Ecclesiastical History Emeritus (*Divinity School*) (*Emeritus*)  
 James L. Kugel, Harry Starr Professor of Classical and Modern Jewish and Hebrew Literature and Professor of Comparative Literature, Director of the Center for Jewish Studies (*on leave spring term*)  
 Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*) (*on leave 1999-00*)  
 David Little, T. J. Dermot Dunphy Professor of the Practice in Religion, Ethnicity, and International Conflict (*Divinity School*)  
 Eugene McAfee, Lecturer in the Study of Religion  
 David Gordon Mitten, James Loeb Professor of Classical Art and Archaeology  
 Richard R. Niebuhr, Hollis Professor of Divinity Emeritus (*Divinity School*)  
 Ralph B. Potter, Professor of Social Ethics (*Divinity School*) (*on leave spring term*)  
 Christopher S. Queen, Lecturer on the Study of Religion  
 Elisabeth Schüssler Fiorenza, Krister Stendahl Professor of Divinity (*Divinity School*) (*on leave*)



*spring term)*

Lawrence E. Sullivan, Professor of the History of Religions (*Divinity School*)

Stanley J. Tambiah, Esther and Sidney Rabb Professor of Anthropology (*on leave 1999-00*)

Ronald Thiemann, John Lord O'Brian Professor of Theology (*Divinity School*) (*on leave 1999-00*)

Cornel West, Alphonse Fletcher, Jr., University Professor and Professor of Afro-American Studies (*FAS*) and Professor of the Philosophy of Religion (*Divinity School*)

Irene J. Winter, William Dorr Boardman Professor of Fine Arts (*on leave 1999-00*)

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 Ph.D. 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 Christian

500–549 Modern Western

550–599 Islamic

600–699 Hindu

700–799 Buddhist

800–899 Chinese and Japanese



900–999 African and Other

## ***Tutorials in the Comparative Study of Religion***

***Primarily for Undergraduates***

### **\*Religion 91r. Supervised Reading and Research**

Catalog Number: 8046

*Kimerer LaMothe and members of the Committee*

*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. Tutorial — Sophomore Year**

Catalog Number: 7608

*Kimerer LaMothe*

*Half course (spring term). M., W., 3:30–5. EXAM GROUP: 8, 9*

*Note:* Required of concentrators.

### **\*Religion 98a. Tutorial — Junior Year**

Catalog Number: 2832

*Kimerer LaMothe and assistants*

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

*Note:* Required of concentrators.

### **\*Religion 98b. Tutorial — Junior Year**

Catalog Number: 2922

*Kimerer LaMothe 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

*Kimerer LaMothe and assistants*

*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 (spring term). M., W., F., at 10, and a discussion hour to be arranged. EXAM GROUP: 3*

An introduction to the major religious traditions of the world through the writings and perspectives of 20th-century adherents of those traditions. What does it mean to be a Hindu, Buddhist, Jew, Christian, or Muslim today? How do people of faith think about the internal diversity of their own tradition and about the wider issue of religious diversity? Special attention given to the problem of pluralism and religious truth as viewed from the perspective of each religious tradition and to the particular issues of emerging pluralism in the United States.

*Note:* Offered jointly with the Divinity School as 3220.

**[Religion 13. Scriptures and Classics]**

Catalog Number: 1723

*William A. Graham, Jr.*

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

An introduction to the history of religion based on selective reading in significant texts from diverse religious and cultural traditions. Considers important thematic issues (e.g., suffering, death, love, transcendence, community) as well as problems of method and definition as they present themselves in the sources. Readings from texts such as the Veda, Bhagavad Gita, Buddhacarita, Lotus Sutra, Confucian Analects, Chuang Tzu, Gilgamesh, Aeneid, Torah, New Testament and Qur'an.

*Note:* Expected to be given in 2001–02. Offered jointly with the Divinity School as 3225.

**Religion 14. Comparative Religious Ethics: An Introduction to the Study of Religion**

Catalog Number: 7539

*Charles Hallisey*

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

An introduction to the comparative and historical study of religion through an exploration of the role of morality and ethical reasoning in human and religious life, as well as the role of religious experiences, ideas, and practices in ethics. The course draws materials from four religious traditions — Buddhist, Christian, Jewish, and Confucian — as well as non-religious sources to consider both the nature and diversity of human morality cross-culturally and the extent to which morality and ethics are universals in human life.

*Note:* Offered jointly with the Divinity School as 3100.

**Religion 42. The Christian Bible and Its Interpretation**

Catalog Number: 5870

*Peter J. Gomes (Divinity School)*

*Half course (spring term). W., F., at 11, and an hour 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 to be 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 45. Martyrs, Mystics, and Heretics: Alternative Christianities]**

Catalog Number: 4735

*Kimerer LaMothe*

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

An introduction to the history of Christian traditions through individuals and groups whose claims to Christian identity were fiercely contested in their day. What kinds of issues have proved critical in determining Christian identity? Case studies include: martyrs and Gnostics in early Christianity; medieval mystics; 16th-century reformers; the so-called “witches” of the 17th century; and the American Shakers. In conclusion we consider controversial interpretations of Jesus Christ in 20th-century liberation and postmodern theologies. Along the way, we consider thematic concerns spanning the role of human bodies in religious life, the nature of women, attitudes towards sexuality and worldly pleasure, and the church as an institution in relation to personal faith and empowerment.

*Note:* Expected to be given in 2000–01.

*Cross-listed Courses*

**Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies**

*For Undergraduates and Graduates*

**Religion 1500. “Losing my Religion”: Religious Experience in the Modern West**

Catalog Number: 4269

*Kimerer LaMothe*

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

Why religion? Why does religion persist in contemporary western civilization where what counts as “truth” and “knowledge” is largely determined by scientific rationality? This course reads classic texts in modern western theology and philosophy written by Christian and Jewish authors in response to the question: what is religious experience and what does it offer human life? Responses considered range from “nothing,” mere illusion, and patriarchal oppression, to prophetic insight, healing power, existential meaning, indescribable passion and infinite love. Readings may include: Kierkegaard, Marx, Freud, M.B. Eddy, Buber, Tillich, Daly, Levinas, and Kristeva.

**[Religion 1551. For the Love of God and His Prophet: Literary and Artistic Expressions of Muslim Devotional Life]**

Catalog Number: 0110 Enrollment: Limited to 20.

*Ali S. Asani*

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

Designed as an introduction to Islam, this course focuses on 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. 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 2000–01. Offered jointly with the Divinity School as 3887.

**Religion 1600. Reading of Hindu Texts: An Introduction to Hinduism**

Catalog Number: 4479

*Edwin Bryant*

*Half course (fall term). M., W., 3–4:30. EXAM GROUP: 8, 9*

This course will attempt an Introduction to Hinduism(s) by a reading of some of the texts that have gained prominence amongst Hindus over the centuries. Readings will include extracts from the ancient Vedas, the philosophical Upanisads, the Dharma law books, psycho-meditational texts such as the Yoga Sutras, the Ramayana and Mahabharata epics, the famous Bhagavad Gita, the Siva Purana, the Devi Gita of the Goddess, devotional poetry, and modern religious writings that have become authoritative texts amongst various present-day religious groups.

*Note:* Offered jointly with the Divinity School as 3423.

**[Religion 1700. Introduction to Buddhism]**

Catalog Number: 3486

*Charles Hallisey*

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

A general survey of the diverse patterns of religious and cultural life found in the contemporary Buddhist world.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3230.

***General: Comparative and Methodological***

***For Undergraduates and Graduates***

**\*Religion 1005. World Religions in Boston: Research Seminar**

Catalog Number: 3289

*Diana L. Eck*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

An investigation of the religious traditions of the world in the dynamic context of the United States focusing on the presence of these traditions in the increasingly complex and diverse religious life of the Boston area today. This is a research seminar in which the class visits a Hindu temple, a Buddhist temple or meditation center, and an Islamic center and each student undertakes field research on a particular religious community.

*Note:* Offered jointly with the Divinity School as 3901

**[Religion 1007. Religion in Multicultural America]**

Catalog Number: 3416

*Diana L. Eck*

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

An exploration of the changing religious landscape of the United States, looking at the history and dynamic interaction of the various religious traditions that now compose the American religious scene. Looks briefly at Native American, Christian, and Jewish traditions, but focuses more on the religious life of Asian-Americans — Buddhist, Hindu, Sikh, Jain — and on the



African-American and immigrant traditions of Islam. Throughout is a dual focus on how the various religious traditions are changing in the American environment and how America is changing in this new multireligious context.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3221.

**[Religion 1010. Religious Life Among Indigenous Cultures in the Americas]**

Catalog Number: 4509

*Lawrence E. Sullivan (Divinity School)*

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

This course examines a selection of cultural cases in order to contextualize a variety of beliefs and practices such as religious cosmologies, myths, rites of passage, institutions, specialists, built forms, and historical movements.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3708.

**[Religion 1011. Ritual Experience and Critical Perception: Seminar]**

Catalog Number: 5624

*Lawrence E. Sullivan (Divinity School)*

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

This seminar examines perceptions associated with ritual experience and evaluates various disciplinary approaches to such elements as mimesis, mnemonics, gesture, music, and visual spectacle.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3915.

*Prerequisite:* Graduate introduction to methods in the study of religion, or equivalent.

**Religion 1013. God: The Beginnings: Seminar**

Catalog Number: 6377

*Eugene McAfee*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

The deity known as “God” in western religions first appears as El in texts from ancient Syria-Palestine (Canaan) in the mid-second millennium B.C.E. This course will examine El as he is portrayed in mythological and cultic texts from the ancient kingdom of Ugarit and in contemporary Semitic inscriptions. Readings will focus on El as divine patriarch of the Ugaritic pantheon, his relationships to other Ugaritic deities, and his relationships to humans. The course will also examine the incorporation of El into the sacred writings of ancient Israel and, through them, into the religions of the modern west.

**Religion 1015. Angels: Messengers of God**

Catalog Number: 2105

*Gary Anderson (Divinity School) and Kimberley C. Patton (Divinity School)*

*Half course (spring term). W., 1–3, and one hour to be arranged. EXAM GROUP: 6, 7*

The concept of divine intermediaries is widespread in most religious worlds. In our own day, there has been a dramatic swelling of interest in these mysterious beings. The “messenger” often refracts crucial doctrinal tenets or executes divine will, as well as providing a spectacular focus for the religious imagination. In addition, the angel often serves as a useful literary tool to define the relation of the human to the divine; hence, angels have a crucial theological and anthropological role in a range of religious genres. Using textual and iconographic evidence, this



course explores the history, symbolism, and theological importance of angels and the development of angelology in three related monotheistic traditions: Judaism, Christianity, and Islam.

*Note:* Offered by the Divinity School as 3651.

### **Religion 1017. New Religious Movements and Society: Conference Course**

Catalog Number: 8082

*Helen Hardacre*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

This conference course examines the emergence and development of new religious movements (NRMs) from the 19th century to the present, based on case studies from Europe, Africa, the United States, and Japan. Topics include interpretations of the founding of NRMs, conflicts between NRMs and the media, and the contemporary millenarianism.

*Note:* Offered by the Divinity School as 3810.

### **Religion 1018. Meanings Made of Death**

Catalog Number: 5377

*Linda L. Barnes (Divinity School)*

*Half course (fall term). M., 1–3, discussion sections to be arranged. EXAM GROUP: 6, 7*

The meanings of life, health, illness, suffering, and healing are relativized by the realities of dying and death. Each religious tradition has its own approaches to articulating relationships with the dying, to ritualizing and remembering a person's death, and to creating ways to sustain relationships with the dead. We will explore examples of these approaches through cases drawn from a range of religious traditions in the United States, including those of immigrant and ethnic minorities. Offered by the Divinity School as 3414.

### **Religion 1022. Comparative Mysticism: Seminar**

Catalog Number: 5833 Enrollment: Limited to 15

*John B. Carman (Divinity School)*

*Half course (spring term). F., 1–3. EXAM GROUP: 6, 7*

Few concepts have been so variously understood as "mysticism," from the height of genuine religious experience to the depths of self-deception in the claim of the soul's identity with the absolute. Some modern Hindus have accepted the European Protestant charge that mysticism is an oriental intrusion into Christian piety. They have differed, however, as to whether mysticism is to be understood as esoteric practice or popular devotion, as communion with a loving God or as the higher consciousness of the One transcending of all duality. This seminar will discuss classical expressions of mysticism in a number of religious traditions as well as recent views as to whether mystical experience cuts across differences between religious traditions. We shall start with Rudolf Otto's comparison of Eckhart and Sankara.

*Note:* Offered by the Divinity School as 3907.

### **[Religion 1025. Ritual and the Religious Life: A Thematic Introduction to Religion]**

Catalog Number: 5239

*Lawrence E. Sullivan (Divinity School)*

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

An exploration of the nature, structure, and meaning of ritual act and ritual language in human



religious life, drawing materials from the great religious traditions, especially the Native American, Hindu, Buddhist, and Christian. Consideration of meditation, the yearly cycle of festivals; and the rites of the life cycle from birth to death.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3320.

### **Religion 1026. Contrast and Harmony in Conceptions of God**

Catalog Number: 4380

*John B. Carman (Divinity School)*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A comparative study of apparently opposite attributes (polarities) in the Divine nature with special attention to theistic beliefs in Hinduism and Christianity. Consideration of the polarities of majesty/humility, justice/mercy, and masculine/feminine, as well as diverse ways in which theologians try to make sense of paradoxical polarities.

*Note:* Offered jointly with the Divinity School as 3439.

### **Religion 1030. Texts, Writers, and Readers**

Catalog Number: 1164 Enrollment: Limited to 20.

*David D. Hall (Divinity School)*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

This readings and research colloquium studies the production and transmission of texts within different religious traditions (chiefly Christianity, but also Buddhism, Judaism, etc.); authority or authenticity in relation to the fluidity of transmission; and the meanings of ‘author’ and of the mediating figure of ‘reader’. The primary focus is on written texts, though oral tradition will be considered as well.

*Note:* Offered by the Divinity School as 2389.

### **Religion 1032. Sacrifice: Ritual, Reflexivity, and Paradox: Seminar**

Catalog Number: 3888 Enrollment: Limited to 15

*Kimberley C. Patton (Divinity School)*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

An intensive examination of the phenomenon of sacrifice. Involving the surrender or destruction of external objects unlike prayer and other verbal religious forms, sacrifice is often considered to be an alien, “antique”, or even “barbaric” ritual by modern secularized, industrialized societies—even those in which atonement-oriented or Eucharistic Christian theology is familiar. We will examine typologies of sacrifice, blood - and bloodless offerings, and some of the critical religious concepts which can be operant in sacrifice: cosmogony, consecration, thanksgiving, communion, reciprocity, substitution, efficacy, violence, transgression, expiation, catharsis, human and divine hierarchy, and sacerdotal authority. Sacrifice will be studied in depth in the following three historical complexes: Indo-European, Abrahamic monotheistic, and Meso-American. Special topics will include the theological and sociological implications of human sacrifice, sacrifice by divinities, and the relationship of sacrifice to religious authority, gender distinctions, and class or caste hierarchies. In addition to primary texts, the course will include reading and critical analysis of secondary historical, anthropological, and theoretical works.

*Note:* Offered by the Divinity School as 3816.



**Religion 1033. Reading the Bible: Jews, Christians, Gnostics and Others as Claimants to Biblical Authority**

Catalog Number: 2325

*Ruth Clements (Divinity School)*

*Half course (fall term). Th., 10–1. EXAM GROUP: 12, 13, 14*

The course begins with a survey of the role and types of biblical interpretations in various Second Temple communities, moves on to consider the evolution of interpretive techniques and traditions in various post-Temple communities, and concludes with the work of Origen and his rabbinic contemporaries. We will give special consideration to biblical interpretation as a tool by which a community locates itself in relation to the wider cultural matrix and by which it authorizes its own truth claims over and against those of rival interpretive communities. Offered by the Divinity School as 1275.

**Religion 1034. Early Judaism and the New Testament**

Catalog Number: 0415

*Ruth Clements*

*Half course (fall term). W., 6–9 p.m. and hour to be arranged. EXAM GROUP: 9*

Christianity had its origins in Second Temple Judaism and many New Testament books were written during the early Rabbinic period. The historical, cultural, and religious relationships of the followers of Jesus to the Jewish community will be explored in select Jewish and New Testament writings. Special attention will be given to the variety of social groups which produced Jewish and New Testament writings and to the processes of interpretation and dispute which united and divided them. Offered by the Divinity School as 1280.

**Religion 1036. Christianity and the Making of Rabbinic Judaism: Seminar**

Catalog Number: 5167

*Daniel Boyarian*

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

A study of the ways that early Christianity and Judaism were intertwined throughout late antiquity, exploring how more contact existed than has previously been supposed by many scholars (who see a final separation, a parting of the ways, either in 70 C.E. or in 135 C.E). The view of this seminar favors an ever-growing school of thought that sees much contact and interaction well into the fourth century. Such themes as martyrology, liturgy, and heresiology will be central to our investigations. Among the texts to be read will be talmudic and midrashic texts (in translation), the Pseudo-Clementines, the Didascalia, Justin Martyr, and others.

*Note:* Offered by the Divinity School as 1466.

**[Religion 1037. Jewish and Christian Understanding of the Garden of Eden]**

Catalog Number: 6932

*Gary Anderson (Divinity School)*

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

This course will trace the story of the “Fall” in Genesis 1-3 from its earliest Biblical roots up to and including the retelling of the narrative in Milton’s *Paradise Lost*. This course will consider various commentary materials (Rabbinic and Patristic writers), literary recastings (various apocryphal retellings) and iconographical representations. Special interest will be devoted to discerning how each of these media refashions the story and to what degree they can be



interpreted over and against one another.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1402.

**[Religion 1038. The Book of Psalms]**

Catalog Number: 6248

*Gary Anderson (Divinity School)*

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

A survey of the book of Psalms. Focus of the course will be the manner in which the church and the synagogue has made these texts a center for the spiritual life. The course will begin with a consideration of the Psalms in their original historical context, and their present place in Jewish and Christian canons. The bulk of the course will involve a close reading of selected Psalms against the commentaries of Qimhi, Augustine and Calvin.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1403.

*Prerequisite:* One course in Biblical Studies.

**[Religion 1040. Topics in Social Ethics: Seminar]**

Catalog Number: 2830

*Preston N. Williams (Divinity School)*

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

An inquiry into the grounding and understanding of human rights in Confucianism, Islam, and Christianity.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2867.

**Religion 1045. Thinking About Thinking**

Catalog Number: 6190 Enrollment: 100 total: 30 law students, 30 graduate students from other Harvard schools, 30 undergraduates, and 10 fellows.

*Harvey G. Cox, Jr. (Divinity School), Alan Dershowitz (Law School), and Stephen J. Gould*

*Half course (spring term). Th., 4:10–6:10. EXAM GROUP: 18*

A discussion of selected topics with the aim of isolating, illustrating, and examining the distinctive modes of thinking in science, religion, philosophy and law. Topics vary from year to year and may include some of the following: line-drawing and classification; beginnings and endings of life; effects and side-effects; causality, evidence, explanation and contingency; free will; biological and genetic explanations of behavior; legal punishment; discrimination and affirmative action; race, ethnicity and nationality; parents and children; gender; contrast between religious and empirical beliefs; natural law; textual interpretation; realism and perspectivism; animal rights.

*Note:* Offered by the Divinity School as 2480.

**Religion 1067. Seeds of Christ in Hindu Soil**

Catalog Number: 8400

*John B. Carman (Divinity School)*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

A Christian theological scrutiny of Christian and Hindu interpretations of Jesus Christ in modern India, asking whether the early Christian acknowledgement of the Divine Word in Greek philosophy can be extended to the Hindu devotional tradition and especially to the Vaishnava



conception of Divine descent and embodiment.

*Note:* Offered jointly with the Divinity School as 3436.

**Religion 1075. Jerusalem: An Interdisciplinary Inquiry**

Catalog Number: 3014

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

A holy city for three faiths, the focus of poetry, song, legend and ideology, and a continuing political flashpoint, the city of Jerusalem provides a rich case study in religious history, art and architecture, eschatology 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:* Offered by the Divinity School as 2505.

**Religion 1080. Sacred History and Historicity: Myth, Epic, Scripture, and Archaeology**

Catalog Number: 0709

*Kimberley C. Patton (Divinity School)*

*Half course (fall term). F., 2–5. EXAM GROUP: 7, 8, 9*

The course deals with the illumination (or challenge) brought to bear on culturally enshrined religious myth, epic and scripture by modern archaeological, scientific, and historical research. In seeking better to know and understand a given civilization, how might two worlds of evidence—its own sacred texts and the material remains unearthed in excavation, so often divorced from one another in scholarly inquiry—be considered in real relationship? What are some of the contemporary assumptions, including the dominant approach of positivist skepticism, surrounding the encounter of sacred history with historicity? The course will include topics in Ancient Near Eastern, Homeric, and Biblical archaeology, and will also consider archaeoastronomical research in Mesoamerica. Starting with the Sumerian epic *Gilgamesh* and ending with the *Popol Vuh*, the Mayan creation myth, we will touch on a number of recent archaeological discoveries and controversies.

*Note:* Offered by the Divinity School as 3664.

*Cross-listed Courses*

**[Anthropology 278 (formerly Anthropology 183). The Charisma of Saints, and the Cults of Relics, Amulets, Images, and Shrines]**

**Celtic 150. Celtic Paganism**

**\*Folklore and Mythology 103. Oral Literature**

**[Social Analysis 36. Religion and Modernization: Cultural Revolutions and Secularism]**

*Primarily for Graduates*

**\*Religion 2001. Major Thinkers in the Study of Religion: Seminar**

Catalog Number: 0644 Enrollment: Limited to first-year doctoral students.

*William A. Graham, Jr., David Lamberth (Divinity School) and members of the Committee*  
*Half course (fall term). Hours to be arranged.*



Introduces all first-year students in the Study of Religion to methodological issues by discussing the viewpoints of several significant scholars representing diverse approaches and fields.

**\*Religion 2002. Major Themes in the Study of Religion: Seminar**

Catalog Number: 0803

*Kimberley C. Patton (Divinity School)*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

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 2010. Religions of the World and Ecology: Seminar]**

Catalog Number: 3153

*Lawrence E. Sullivan (Divinity School)*

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

This course examines beliefs and practices associated with sustaining the environment in a selection of religious traditions. It aims to contextualize those beliefs and practices within the history and cosmologies of the traditions considered.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3916.

*Prerequisite:* Graduate introduction to methods in the study of religion or equivalent.

**Religion 2030. The New Testament Background to Early Rabbinic Judaism**

Catalog Number: 9133

*Daniel Boyarin (Divinity School)*

*Half course (spring term). W., 10–12 and hour to be arranged. EXAM GROUP: 3, 4*

Themes and parallels between the Gospels, in particular, and aspects of early rabbinism will be considered. However, the assumption that there is an entity, ‘Judaism’, from which Christianity deviates will be abandoned in favor of the view that first and second century Christianity belong to the same religious and cultural milieu within which the earliest strata of rabbinic literary production took place. In particular, focus will be placed on the Sabbath controversies and the parables. Offered by the Divinity School as 1864.

**Religion 2040. Religion and Human Rights**

Catalog Number: 8115

*David Little (Divinity School)*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course will consider the legal, historical, theoretical, and practical connections between religion and human rights. Debates over universality, particularly in relation to religious freedom and nondiscrimination, will be given special attention. Recent theoretical and empirical work, particularly in Asia, Africa, the Middle East, and Europe, will be taken up.

*Note:* Offered by the Divinity School as 2800.

**Religion 2041. Conscience and Its Freedom: Seminar**

Catalog Number: 7093

*David Little (Divinity School)*



*Half course (spring term). W., 10–12. EXAM GROUP: 3, 4*

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:* Offered by the Divinity School as 2810.

**Religion 2042. Religion, Nationalism, and Peace: Seminar**

Catalog Number: 7857

*David Little (Divinity School)*

*Half course (fall term). Tu., 9–11. EXAM GROUP: 11, 12*

This course will sample the literature on nationalism and ethnicity as it bears on conflict, with special focus on the role of religion. Specific cases will be examined, such as Sri Lanka, Sudan, Tibet, Northern Ireland, Israel and the Palestinian Authority, and Bosnia. Attention will be paid to the ingredients of peace in such situations, and how religion has and may function constructively.

*Note:* Offered by the Divinity School as 2812.

***Ancient Near Eastern and Israelite***

***Cross-listed Courses***

[Akkadian 141r. Akkadian Myths and Epics]

[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 124. Myth and Mythmaking in the Biblical and Ancient Near Eastern World]

**Ancient Near East 126. History of the Religion of Israel**

[Ancient Near East 127. Prophecy in Ancient Israel]

[Ancient Near East 128. Jewish Apocalypticism]

**Ancient Near East 135. Biblical Theology: Hebrew Bible**

**Early Iranian Civilizations 102. Old Iranian Religion**

**Early Iranian Civilizations 103. Manicheism**

[Sumerian 141. Sumerian Myths and Epics]

[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). Hours to be arranged.*



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:* Expected to be given in 2000–01. 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:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1667b/3667b.

*Prerequisite:* Religion 1212a.

**[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 2001–02. Offered jointly with the Divinity School as 3669.

*Cross-listed Courses*

**[Hebrew 150a \(formerly Hebrew 150\). Introduction to Rabbinic Literature](#)**

**[Hebrew 150b. Introduction to Rabbinic Literature]**

**[Hebrew 153. Midrash Seminar]**

**[Hebrew 165. Maimonides' *Book of Knowledge* and its Medieval Critics]**

**[Hebrew 174. Political Thought: Late Antiquity through the Middle Ages](#)**

**[History 1090. History of Jews and Judaism in the Ancient World]**

**[Jewish Studies 111. Modern Jewish Thought](#)**

*Greek, Hellenistic, Roman*

*For Undergraduates and Graduates*

**[Religion 1310. Foreign Religions, Otherness and Identity in the Graeco-Roman World: Seminar](#)**

Catalog Number: 1337 Enrollment: Limited to 15

*Alain Blomart (Divinity School)*



*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

A socio-historical study of the process of introduction and installation of new cults as refracted through the lens of the Graeco-Roman world. This study will aim at understanding how and to what extent the integration of “foreign” elements contributed to the construction of the identity and ideology of ancient Greeks and Romans. A comparative and multidisciplinary approach will be applied particularly to the periods of Classical Greece (5th century B.C.E.) and Republican Rome (4-1st century B.C.E.) as well as to the Imperial period (1-3rd century C.E.). Specific cases of introduction, acculturation, and integration of “foreign” cults, such as those of Cybele, Bendis, Mithras, and Isis will be analyzed by incorporating such diverse disciplines as literature, philosophy, anthropology, iconography, and archaeology. Emphasis will be placed on political and cultural context and also on the symbolism of sacred topography in Athens and Rome. Finally, the work of several postmodern sociologists and philosophers (Derrida, Levinas, Baudrillard, Smith, etc.) will be brought to bear on issues of cultural identity and otherness.  
*Note:* Offered by the Divinity School as 3820.

### *Cross-listed Courses*

**[Greek 106. Greek Tragedy]**

[Latin 106b. Virgil: Aeneid](#)

[Literature and Arts C-14. The Concept 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.

*Helmut H. Koester (Divinity School)*

*Full course (spring term). Hours to be arranged.*

The first half of the course introduces students to work with archaeological data (inscriptions, architecture, sculpture, coins). The second half consists of on-site seminars in Greece and Turkey during the month of May under the leadership of American, Greek, German, and Austrian archaeologists.

*Note:* Expected to be given in 2000–01. 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 Greco-Roman religion, history, and archaeology.

### *Christian*

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

*Karen L. King (Divinity School)*

*Half course (spring term). Tu., Th., 11:30–1, and one hour to be arranged. EXAM GROUP: 13,*



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Almost two millennia lie between the contemporary interpreter of the New Testament and the historical circumstances in which the diverse literature collected in it was written down. Time and habit have tended to obscure several obvious facts: that the Christians of the first century did not have a New Testament; that the 20th century New Testament is a product of the printing press and usually read in translation (or in a reconstructed ‘original’); and that this literature belongs to a religious tradition that now spans the globe and has collected nearly 20 centuries of interpretation. This course will investigate the processes by which a selection of early Christian literature was constructed as scripture and canon out of the diverse forms of ancient Christianity, examine historical-critical approaches that attempt to interpret the books of the New Testament in their 1st and 2nd century contexts, and ask students to examine the contemporary contexts out of which they interpret New Testament literature.

*Note:* Offered jointly with the Divinity School as 1202.

**[Religion 1413. The History and Practice of Lived Religion]**

Catalog Number: 6320

*David D. Hall (Divinity School)*

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

Bringing together theological, ethnographical and historical perspectives, this course is concerned with ecclesial and extra-ecclesial practices, among them: healing, the “unchurched” and the churched, prayer and other ritual acts, the uses of literacy, and the gift relationship. Field work as well as readings, discussions, and lectures.

*Note:* Expected to be given in 2000–01. Offered by the Divinity School as 2269.

**[Religion 1414. Gospel Stories of Women]**

Catalog Number: 6902

*Elisabeth Schüssler Fiorenza (Divinity School)*

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

Participants will engage in feminist critical and rhetorical readings of various Gospel texts. Special attention will be given to social location, critical practices of reading and re-constructive historical and theological models of interpretation for liberation. Lectures, group discussions and group presentations seek to foster a participatory style of learning.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1503/2557.

*Prerequisite:* Religion 1415 or equivalent.

**[Religion 1415. Introduction to Methods of Biblical Interpretation]**

Catalog Number: 3237

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

Any biblical text can be approached and analyzed in a number of different ways. This course will provide a basic introduction to critical methods and theoretical frameworks for reading and interpreting biblical texts. It will explore various approaches with reference to the exegesis of particular texts and provide a feminist analysis of what such methods set out to do and what they actually accomplish. Special attention will be given to the theoretical assumptions and practical implications of critical interpretive methods and approaches for contemporary public discourses and ministerial practice.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1242.



**Religion 1416. Feminist Biblical Interpretation**

Catalog Number: 3002

*Elisabeth Schüssler Fiorenza (Divinity School)*

*Half course (fall term). Tu., 1–3, and a group meeting on Tu., at 12 or by arrangement. EXAM GROUP: 15, 16*

This course will give a basic introduction to the emerging field of feminist biblical studies by discussing different hermeneutical approaches, methods of interpretation, and theoretical perspectives. Special attention will be 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 1419. Jesus of Nazareth and the Gospels**

Catalog Number: 9164

*Mimi Bonz (Divinity School) and Helmut H. Koester (Divinity School)*

*Half course (fall term). Th., 3–5 and one hour to be arranged. EXAM GROUP: 17, 18*

An investigation into the Gospels of the New Testament (Matthew, Mark, Luke, John) and apocryphal early Christian Gospels (Gospel of Thomas, Dialogue of the Savior). The development of these Gospels and their traditions will be discussed as well as the “Quest for the Historical Jesus.”

*Note:* Offered by the Divinity School as 1500.

**Religion 1420. History of Ancient Christianity from the Beginnings to the 4th Century**

Catalog Number: 2397

*Karen L. King (Divinity School)*

*Half course (fall term). Tu., 3–5 and an hour to be arranged. EXAM GROUP: 17, 18*

This course is designed to introduce students to the full range of the historical materials of ancient Christianity from the first to 4th centuries. Special emphasis will be given to setting out the diversity of Christian ideas and practices, the invention of orthodoxy, and the processes of Christian identity formation within the social and political context of the Roman empire.

*Note:* Offered by the Divinity School as 1260/2145.

**Religion 1421. The Gospel of Luke**

Catalog Number: 8662

*François Bovon (Divinity School)*

*Half course (spring term). F., 9–11 and one hour to be arranged. EXAM GROUP: 2, 3*

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. Patristic 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:* One and one half years of Greek.

**[Religion 1422. The Epistle to the Romans]**

Catalog Number: 1796

*François Bovon (Divinity School)*



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

Historical and theological exegesis of the English text (with separate section reading the Greek text). Emphasis will be put on the historical situation of the author and of the addressees, on the theological structure of the epistle, and on the Jewish roots of Paul's arguments. Some aspects of Paul's reception in the life of the Christian churches will be integrated into the course.

*Note:* Expected to be given in 2001–02. Offered jointly with the Divinity School as 1519.

*Prerequisite:* One and one half years of Greek.

**[Religion 1423. Earliest Christologies of the New Testament]**

Catalog Number: 8983

*François Bovon (Divinity School)*

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

The course 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. The last part of the course will deal with the New Testament authors Paul and John.

*Note:* Expected to be given in 2000–01. 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 semester of Greek.

*Note:* Expected to be given in 2000–01. Offered by the Divinity School as 1521

*Prerequisite:* One and one-half years of Greek.

**Religion 1425. Theology of the New Testament**

Catalog Number: 5275

*François Bovon (Divinity School)*

*Half course (fall term). F., 9–11 and one hour to be arranged. EXAM GROUP: 2, 3*

The variety and structural unity of early Christian faith as described particularly in Paul's letters, the Synoptic Gospels and the Gospel of John are considered in a historical perspective

*Note:* Offered by the Divinity School as 1240.

*Prerequisite:* Introduction to the New Testament or the equivalent

**[Religion 1426. Introduction to Ancient Christian Apocryphal Literature]**

Catalog Number: 8930

*François Bovon (Divinity School)*

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

This course will begin by exploring the field of non-canonical gospels, particularly Greek fragments of lost Gospels, then devote a longer time to the apocryphal acts of the apostles, particularly to the *Acts of Philip*, and conclude by reading the *Apocalypse of Peter* and the



*Apocalypse of Paul.*

*Note:* Expected to be given in 2000–01. Offered by the Divinity School as 1270.

**[Religion 1427. The Origins of Gnosticism and the Identity of Christianity]**

Catalog Number: 3574

*Karen L. King (Divinity School)*

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

Over fifty years have passed since the discovery of the “Nag Hammadi Library” in 1945. Three years ago, publication of critical editions of the full corpus was completed. Now the task of assessing the meaning and significance of these and related materials is beginning in earnest. This course will introduce students to critical issues concerning the identity of Christianity, including the problem of the origins and definition of “Gnosticism” (if such a thing exists), describing the diversity of ancient Christianities, defining orthodoxy and heresy, and discussing practices of syncretism and discourse of anti-syncretism. It will also introduce students to the analysis of select primary literature, including *The Gospel of Thomas*, *The Gospel of Mary*, *The Gospel of Truth*, *The Apocryphon of John*, and *The Hypostasis of the Archons*.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 1700.

*Prerequisite:* Introduction to the New Testament or History of Ancient Christianity, or the equivalent.

**Religion 1430. History of Western Christianity, 400–1300**

Catalog Number: 1581

*Clarissa W. Atkinson (Divinity School)*

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

Church and society in western Europe from the fifth century through the thirteenth. 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 by the Divinity School as 2230.

**Religion 1449. Reformation Europe**

Catalog Number: 6852

*Barbara Diefendorf (Divinity School)*

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

16th-century Europe witnessed a series of religious revolutions that permanently altered both the spiritual and material lives of its inhabitants. The task of this course is to examine both the causes and the nature of these revolutions in an effort to understand better how they impacted early modern Europe. Attention will be given both to ideas and institutions, significant persons and long-term trends.

*Note:* Offered by the Divinity School as 2245.

**Religion 1450. Explorers and Missionaries: Seminar**

Catalog Number: 8354 Enrollment: Limited to 15.

*Clarissa W. Atkinson (Divinity School)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Exploration and early missions: European Christians in the New World in the fifteenth and sixteenth centuries. Emphasis on continuities and changes in Western European Christianity



produced by cultural encounters in the Americas in the early period of exploration and settlement.

*Note:* Previous work in the history of Christianity will be very helpful. Offered by the Divinity School as 2246.

**[Religion 1465. Liberalism and Orthodoxy, 1600–1870]**

Catalog Number: 0833

*David D. Hall (Divinity School)*

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

The emergence of Unitarianism, Universalism, and Transcendental Perfectionism in the context of 17th century Puritanism, the impact of the Enlightenment, romanticism, moral and social reform and the meaning and uses of “domesticity.”

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2317.

**Religion 1466. Practices of Piety: Studies in the History of Devotion, Worship, and Spirituality: Colloquium**

Catalog Number: 1079

*Barbara Diefendorf and David D. Hall (Divinity School)*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

Encompassing Catholic and Protestant practice from the fifteenth to the eighteenth centuries, and dealing both with European and American materials, this readings and research colloquium addresses such topics as sacraments and sacramentals, asceticism and bodily mortification, mysticism and spirit possession, confraternities and youth groups, social discipline and religious instruction.

*Note:* Offered by the Divinity School as 2388.

**Religion 1470. Introduction to Ethics**

Catalog Number: 2884

*Arthur J. Dyck (Public Health and Divinity School)*

*Half course (fall term). M., 5:30–7:20 p.m., and one hour to be arranged. EXAM GROUP: 9*

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 omitted in 2000–01. Offered jointly with the Divinity School as 2700.

**Religion 1471. Human Rights**

Catalog Number: 8564

*Preston N. Williams (Divinity School)*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

A examination of philosophical, theological, and political theories of human rights and their implementation by Christian churches and national governments. Emphasis will be placed upon the relation of theory to practice, the formations of action guidelines, and the ethical criteria for the evaluation of policy proposals. Case studies will be employed. Primarily constructive and comparative.

*Note:* Offered jointly with the Divinity School as 2740.



**Religion 1472. The Ethical and Religious Thought of Martin Luther King, Jr.**

Catalog Number: 8761

*Preston N. Williams (Divinity School)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

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 1475. Christian Social Ethics: Seminar]**

Catalog Number: 2905

*Ralph B. Potter (Divinity School)*

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

Introduction to the major alternative modes of thought and action by which Christians have sought to express concerns for social and political issues. Stress put on the social dimension of Christian ethics with attention to the behavioral sciences and philosophy. Historical, descriptive, and normative in character.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2711.

**Religion 1476. Contemporary Religious Ethics**

Catalog Number: 4361

*Preston N. Williams (Divinity School)*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

Selected readings in the moral theologies of contemporary Christian ethicists. Special attention given to the manner in which their theological presuppositions affect their modes of moral reasoning. Primarily comparative and constructive.

*Note:* Offered jointly with the Divinity School as 2716.

**[\*Religion 1477. Pentecostalism]**

Catalog Number: 5792

*Harvey G. Cox, Jr. (Divinity School)*

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

Through class discussion and field visits the course explores the fastest growing religious movement in the world today; its appeal to poor and marginalized people; the role of women, its history and theology, healing and glossalalia; and the emergence of a pentecostal social theology.

*Note:* Expected to be given in 2000–01. Offered with the Divinity School as 2495.

**[Religion 1479. Voices in Liberation Theology]**

Catalog Number: 0418

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

Growing out of biblical and prophetic sources, liberation theology has appeared in the 20th century especially among poor and marginalized peoples. This course will introduce this vigorous movement through the writings and activities of the people who have shaped it, such as Dietrich Bonhoeffer, Mohandas Gandhi, Dorothy Day, Gustavo Gutierrez, Martin Luther King, Jr., Bishop Oscar Romero, Rabbi Abraham Joshua Heschel, Leonardo Boff, and Bishop Samuel



Ruiz.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2484.

**[\*Religion 1481. Current Topics in Latin American Religion and Theology: Advanced Seminar]**

Catalog Number: 0592 Enrollment: Limited to 12.

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

Recent developments in liberation theology, the rise of evangelical and pentecostal movements, religious responses to civilian rule and cultural dislocation.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2487.

*Prerequisite:* Some previous work in Liberation Theology and a reading knowledge of Spanish.

**Religion 1489. Contemporary Interpretations of Jesus**

Catalog Number: 6437

*Harvey G. Cox, Jr. (Divinity School) and Allen D. Callahan (Divinity School)*

*Half course (spring term). Tu., 1–3, and one hour to be arranged. EXAM GROUP: 15, 16*

Beginning with the narratives of the life of Jesus in the Synoptic Gospels (Matthew, Mark, and Luke), this course covers 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 omitted in 2000–01. Offered jointly with the Divinity School as 2483.

**Religion 1490. Feminist Theology as Systematics: A Critical Survey**

Catalog Number: 3223

*Sarah Coakley (Divinity School)*

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

This course surveys some of the best work on feminism and Christianity to date, and analyzes its effect on the contemporary task of systematic theology. A course suitable for both those with no previous knowledge of feminist theology, and for those with a good background in this field, the early lectures give some telling examples of how feminist insights have shifted the ground of discussion in biblical exegesis, in patristics, and in medieval church history and spirituality. We shall also look briefly at the construction of ideas of “femininity” in Enlightenment philosophy and theology, which provides the historical backcloth against which a range of contemporary feminist theologies (both Christian and post-Christian) may be discussed and analyzed in later lectures.

*Note:* Offered jointly with the Divinity School as 2436.

**[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.*

“Spirituality” and “mysticism” are both relatively modern words; we shall start by peeling back some misunderstandings that may attend them. Thereafter, the course will be strongly text-based. We shall begin by comparing Jesus on “prayer” and Plato on “contemplation,” and move from



there to a number of distinctive theories of “prayer,” “meditation,” and “contemplation” in the Christian tradition (both East and West), and analyze how the discussion of prayer-practice is interwoven with presumptions about the nature of the (gendered) self. We shall be especially concerned with the way the Platonic and neo-Platonic traditions have been assimilated into Christian “spirituality.”

*Note:* Expected to be given in 2001–02. 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). Tu., Th., at 1, plus one hour to be arranged. EXAM GROUP: 15*

A basic course for beginning students which will analyze different approaches to Christian theology as evident in classic, modern, and contemporary theological texts.

*Note:* Expected to be omitted in 2000–01. 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). W., 1–3. EXAM GROUP: 6, 7*

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:* 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 considering major works of significant figures. We will ask such questions as: What is the nature of theology for each author? How does she or he ask and respond to theological questions? What is distinctive and influential about his or her view of theology? Through this examination we will also be concerned more generally with the question of what theological thinking is today and what its relation is to other fields of inquiry. Authors will be drawn from the early medieval to the to the contemporary periods.

*Note:* Expected to be given in 2001–02. Offered by the Divinity School as 2402.

### **Religion 1496. Light in the Darkness: Religious Faith and Secular Values in Contemporary Anglo-American Cinema**

Catalog Number: 6783

*Eugene McAfee*

*Half course (spring term). Th., 3–5; M., 7:30–10:30 p.m. EXAM GROUP: 17, 18*

A systematic study of the representation of religion and values in contemporary Anglo-American film. The course will examine the cinematic depiction of (a) “religion,” a worldview held by individuals who feel increasingly marginalized in modern Anglo-American society, and (b) the



values which currently occupy pride of place in public discourse: the distribution and exercise of power, socioeconomic class consciousness, ethnic identity, and relations within and between the sexes, including the family. Films screened in the past have included *The Last Temptation of Christ*, *Romero*, *Chariots of Fire*, *Priest*, *Pulp Fiction*, *My Beautiful Laundrette*, and *Taxi Driver*.

### *Cross-listed Courses*

**[History of Science 107. History of Medieval Science]**  
**[Medieval Greek 115ar. Introduction to Byzantine Greek](#)**

### *Primarily for Graduates*

**[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 (fall term). W., 3–5. EXAM GROUP: 8, 9*

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 2469. Ernst Troeltsch: Social Theorist, Philosopher of History, Theologian: Seminar]**

Catalog Number: 8632 Enrollment: Limited to 12.

*Sarah Coakley (Divinity School)*

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

This seminar will discuss some of the major influential writings of Ernst Troeltsch (1865–1923), setting him in the context of his own day and assessing his relevance for contemporary theology.

*Note:* Expected to be given in 2000–01. Not open to undergraduates. Offered jointly with the Divinity School as 2648.

*Prerequisite:* Graduate work in theology or philosophy.

**[Religion 2477. God]**

Catalog Number: 8838 Enrollment: Limited to 12

*Half course (fall 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 2000–01. Offered jointly with the Divinity School as 2634.

**[Religion 2492. Christology: Ancient, Modern, and Contemporary: Seminar]**

Catalog Number: 8450 Enrollment: Limited to 12

*Sarah Coakley (Divinity School)*

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

This seminar will offer: an examination of formative christological developments in the patristic period, focusing on interpretational problems with the *Definition of Chalcedon* (451); an analysis



of the fate of Antiochene/Alexandrian emphases in christology including a discussion of various understandings of “communications of idiom” in Greek, Scholastic, and Protestant thought; consideration of post-Enlightenment and contemporary assessments of Chalcedonianism including recent feminist and liberationist reappraisals.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2643.

*Prerequisite:* Graduate work in theology or philosophy.

### *Cross-listed Courses*

[\\*History of Science 207r. Medieval Science: Seminar](#)

[\\*History of Science 295r. Critical History: Seminar](#)

[History of Science 297r. Topics in the History of Medieval Latin Science](#)

### *Graduate Courses of Reading and Research*

#### **\*Religion 3420hf. Seminar for Advanced New Testament Students**

Catalog Number: 6026

*Ellen Aitken (Divinity School) 2513*

*Half course (throughout the year). Alternate W., 3–5.*

Seminar for Th.M., Th.D., and Ph.D. candidates, and qualified M.T.S. and M.Div. students.

Required for Th.M. candidates and for Th.D. and Ph.D. candidates until the term following successful completion of general exams. Subject for 1999–00: Ritual Practices in Early Christianity: History and Methodological Considerations.

*Note:* Offered jointly with the Divinity School as 1980.

#### **\*Religion 3490. Colloquium in Theology**

Catalog Number: 6295

*Francis Fiorenza (Divinity School) 2735*

*Half course (throughout the year). W., 3–5.*

This seminar is a principal vehicle of doctoral studies in theology, intended for Th.D. and Ph.D. candidates preparing for general examinations. All faculty members of the department as well as advanced doctoral students are invited. Central figures and recurrent problems in Christian theology and philosophy of religion are considered. The colloquium is required of doctoral students during the first two years of residency. It meets weekly during the fall semester and once every three weeks during the spring. During the 1999-2000 academic year the colloquium will be conducted by Francis Schussler Fiorenza. It will deal with the work of Paul Ricoeur and Emmanuel Levinas with emphasis upon their interpretations of transcendence and the human person as well as upon their methodological approaches. In the spring, discussion will revolve around the work in progress of doctoral students, invited guests, and faculty.

*Note:* Offered jointly with the Divinity School as 2696.

### *Modern Western*

#### *For Undergraduates and Graduates*



**[Religion 1503. Hegel, Kierkegaard, Nietzsche: Prophets of Postmodern Thought]**

Catalog Number: 7738

*Kimerer LaMothe*

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

A close analysis of texts by three 19th-century writers in the modern West whose critiques of religion have animated 20th-century intellectual movements across a broad range of disciplines—philosophy, theology, art, literature, postmodern and feminist theory. This course examines each author’s assessment of the modern condition and the role of religion in causing and/or curing its characteristic forms of alienation from God, others, world and self. Specific texts may include: Hegel’s *Phenomenology of Spirit* and *1827 Lectures on the Philosophy of Religion*, Kierkegaard’s *Concluding Unscientific Postscript* and *Works of Love*, Nietzsche’s *On the Genealogy of Morals*, *Twilight of the Idols*, and *The Antichrist*. Recommended: Religion 1500, or a course in philosophy, theology, political or social theory, or western intellectual thought.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2444.

**Religion 1504. Religion in America: From the Coming of the Europeans to the 1870s**

Catalog Number: 2509

*David D. Hall (Divinity School)*

*Half course (spring term). M., W., at 10, plus hour to be arranged. EXAM GROUP: 3*

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 in relation, especially to gender; and religion and society in the context of the regulating and/or liberating “reform” movements of the nineteenth century.

*Note:* Offered jointly with the Divinity School as 2303.

**\*Religion 1506. Interpretations of American Religious History: Seminar**

Catalog Number: 8344 Enrollment: Limited to 12.

*William R. Hutchison (Divinity School)*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

An examination of the literature of scholarship, with special reference to topics on which new or revisionist interpretations have recently been published.

*Note:* Presupposes basic knowledge of American religious history but participants who wish to do so may pursue research topics in comparative history. Offered jointly with the Divinity School as 2343.

**[Religion 1515. Religion and Culture in 19th-Century America and Europe: Seminar]**

Catalog Number: 4488 Enrollment: Limited to 20.

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

Encompassing the “Victorian” period (c.1830–1890) and such themes or ideas as: liberalism (*laissez faire*) and its critics; the idea of culture; medievalism, agnosticism, and the renewal of orthodoxy; the origins of the social sciences; and the social history of intellectuals. Materials drawn from British and American sources.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2320.



**[Religion 1517. The Spirit of American Religious Thought and Philosophy]**

Catalog Number: 8858

*David Lamberth (Divinity School) and Richard R. Niebuhr (Divinity School)*

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

Concentrates on such important authors in the formative development of American religious thought and philosophy as Jonathan Edwards, William Ellery Channing, Ralph Waldo Emerson, C.S. Peirce, William James, and Josiah Royce.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2551.

*Prerequisite:* Graduate level work in Theology or Philosophy.

**[Religion 1520. Introduction to Hermeneutics]**

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 (1) the interpretation of biblical texts, (2) the conception of theology, and (3) the explication of key theological categories such as revelation, experience, method, foundations, classics, community, and emancipatory practice.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2410.

**[Religion 1525. Radical Movements in Modern America]**

Catalog Number: 3935

*David D. Hall (Divinity School)*

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

A survey and close analysis of radical movements in 20th-century America, with particular attention to the problem of means and ends as it has been posed within the Old Left (Socialist and Communist) and the New (Students for a Democratic Society), within movements to confront war and racism (pacifism, nonviolence, and SNCC), and within anarchist and Christian perfectionist communities (e.g., the Catholic Workers).

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 2302.

**Religion 1530r. Religious Values and Cultural Conflict: Seminar**

Catalog Number: 6858

*Harvey G. Cox, Jr. (Divinity School)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

By reading and reflecting on a number of recent novels, both their content and the reception they received, we will examine how conflicting theological, cultural and ethical values are expressed in this medium. Among the works we will consider are *Charming Billy* by Alice McDermott, *The God of Small Things* by Arundhati Roy, *The Beauty of the Lilies* by John Updike, *The Blessing Way* by Tony Hillerman, *Satanic Verses* by Salman Rushdie, *This Present Darkness* by Frank Peretti, *Demascus Gate* by Robert Stone, *The Jewish War* by Tova Reich, and *Amsterdam* by Ian McEwan.

*Note:* Offered jointly with the Divinity School as 2504.



**Religion 1535. Theology and Power: Seminar**

Catalog Number: 8857 Enrollment: Limited to 12

*Francis Fiorenza (Divinity School)*

*Half course (spring term). Tu., 3–5. EXAM GROUP: 17, 18*

An exploration of the diverse understandings of power within classical and recent social and theological thought. Transitions in the understanding of power with contemporary critical theory, feminist theology, and post-colonial theory will be discussed. Among the authors described: Weber, Lukes, Dahl, Foucault, Arendt, Habermas, Tillich, Rahner, Boff, West, Cobb, Butler, and Young.

*Note:* Offered by the Divinity School as 2633.

**Religion 1536. Theology and Culture**

Catalog Number: 1908 Enrollment: Limited to 30

*Francis Fiorenza (Divinity School)*

*Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18*

This course will discuss the various modern theological interpretations of the relation between religion and culture in general and Christianity and culture in particular. The lectures and discussion will deal with the following authors: Weber, Troeltsch, Niebuhr, Barth, Tillich, Bellah, Berger, Habermas, Moltmann, Metz, Segundo, West.

*Note:* Offered by the Divinity School as 2630.

**[Religion 1541. Kant and Kierkegaard]**

Catalog Number: 7694 Enrollment: Limited to 12.

*David Lamberth (Divinity School)*

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

A close reading of selected major works of Kant and Kierkegaard. The seminar will focus on issues such as the nature and limits of reason, the concepts of freedom and morality, and the relationship between reason and faith.

*Note:* Expected to be given in 2001–02. Offered by the Divinity School as 2670.

**Religion 1543. Modern Theology I: Modern Theology and the Critique of Religion**

Catalog Number: 6386

*David Lamberth (Divinity School)*

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

In this course we will consider the formative development of modern theology (primarily continental) in the context of the principal philosophical and social critiques of religion in the nineteenth century. Topics will include human nature and society, the developing understanding of religion, the relationship of humanity to the divine, the possibility and character of religious knowledge, and the impact of developing understandings of the social, of history, and of historicity. Authors considered may include Kant, Schleiermacher, Hegel, Feuerbach, Marx, Kierkegaard, Nietzsche, Harnack, Troeltsch, and Rauschenbusch.

*Note:* Offered jointly with the Divinity School as 2431.

*Prerequisite:* Previous work in Theology or Philosophy.

**[Religion 1546. Religion and the American Pragmatic Tradition: Seminar ]**

Catalog Number: 6273 Enrollment: Limited to 12.



*David Lamberth (Divinity School)*

*Half course (spring term). Hours to be arranged.*

The seminar will begin with a consideration of the formative contributions of Peirce, James and Dewey, moving on to look at the renaissance of pragmatism in such authors as Rorty, Putnam, West, Seigfried, Chopp, Davaney and Anderson. We will focus especially on the distinctively American character of the project of pragmatism taken broadly exploring its diversity and continuity in the context of American religion and culture.

*Note:* Expected to be given in 2001–02. Offered jointly with the Divinity School as 2671.

**Religion 1547. Modern Theology II: Modern Theology and the Ends of Modernity**

Catalog Number: 7008

*David Lamberth (Divinity School)*

*Half course (spring term). Tu., Th., 11:30–1, and one hour to be arranged. EXAM GROUP: 13, 14*

A thematic continuation of 2431, this course will consider developments within twentieth century modern theology, focusing in particular on the internalization and development of forms of critique that were principally external to theology and religion in the nineteenth century. Beginning with the socially critical developments in kerygmatic theology, we will analyze and trace the influence of critical thought within theology through the twentieth century, paying particular attention in the second half of the course to the emergence of feminist and black liberation theologies in the United States. In the final weeks we will evaluate selected developments in postmodern thought in light of this tradition of theological reflection.

*Note:* Offered by the Divinity School as 2433.

*Prerequisite:* 2431 or the equivalent.

**Religion 1548. Religion and the Performing Arts: The Case of American Modern Dance: Seminar**

Catalog Number: 3603 Enrollment: Limited to 15. Preference given to concentrators.

*Kimerer LaMothe*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Can categories of religious studies—such as ritual, practice, play, performance—help us understand the impact of contemporary performing arts on artists and audiences alike? What is the relationship between religion and art? Between the sacred and the beautiful? Beginning with an exploration of some theoretical perspectives on religion and the performing arts (e.g., Nietzsche, Kandinsky, Artaud; the Turners, Schechner, Blacking, and Hanna), this seminar will examine the case of American modern dance. We will examine claims made for dance by artists, critics, and scholars alike, and assess the usefulness of religious studies in explaining the power of nonverbal aesthetic experience.

*Note:* Expected to be omitted in 2000–01. Field trips dependent on local concert schedules.

Offered jointly with the Divinity School as 2445.

*Prerequisite:* One course in the modern West.

***Cross-listed Courses***



[**Afro-American Studies 120. African-American Religious History**]  
[**English 131. Milton**]  
**[Historical Study B-46. The Darwinian Revolution](#)**

*Graduate Courses of Reading and Research*

**[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). Th., 1–3. EXAM GROUP: 15, 16*

This course considers the historical significance of women’s participation in a variety of religious groups over the course of America’s past. It examines both laity and leadership to investigate how specific religious expressions interact with gender systems to reinforce or conflict with social expectations for women.

*Note:* Offered by 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

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

In the contemporary academy, philosophy of religion is regularly treated as a separate enterprise from theological study. This seminar will be concerned with two central questions, one genealogical and the other critical and conceptual: 1) What are the conditions (conceptual, academic, historical) under which the philosophy of religion emerged as its own field in the development of Western thought? and 2) To what extent is it justifiable and valuable from theological or philosophical perspectives to consider the philosophy of religion as separate from theology (and vice versa)? Readings will include pivotal primary texts as well as historical treatments, and will consider both European and American developments. Seminar participants will be expected to conduct primary research on some aspect of the seminar topic, and to present their work to the seminar at the end of the term.

*Note:* 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 (fall term). Th., 9–11. EXAM GROUP: 11, 12*

The special focus of this course will be the writings of Max Weber and Ernst Troeltsch, together with the reactions of their critics and defenders. Relevance to current topics of concern, such as “secularization,” “religious nationalism,” and “cultural relativism” will be examined. Some attention will be devoted to the “theoretical reference points” of these thinkers, such as Marx, Nietzsche, and Dilthey.

*Note:* Offered by the Divinity School as 2813.



**Religion 2550. Women and Religion in Contemporary America: Seminar**

Catalog Number: 8927 Enrollment: Limited.

*Ann D. Braude (Divinity School)*

*Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16*

Post World War II America has witnessed dramatic changes in the roles and experience of women, as well as significant shifts in the role of religion in shaping public values, personal identity, and group affiliations. This course will examine the points of intersection between these two fundamental shifts in American social life across a spectrum of religious communities. We will survey responses to the changing roles of women both among groups that have embraced feminism and among those that view feminism as antithetical to religious values. We will explore debates and concerns leading to the ordination of women, the revision of prayer books, liturgies, language and policies, as well as debates and initiatives leading to the reassertion of traditional gender roles or to new models of family based on male headship.

*Note:* Offered by the Divinity School as 2328.

**\*Religion 3505hf. Colloquium in American Religious History**

Catalog Number: 6445 Enrollment: Limited to 25

*William R. Hutchison (Divinity School) 4061 (on leave fall term) and David D. Hall (Divinity School) 2510*

*Half course (throughout the year). Alternate Tu., 7:30–9:30 p.m.*

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.

***Islamic***

***For Undergraduates and Graduates***

**Religion 1555. Introduction to Islamic Mysticism: The Sufi Tradition**

Catalog Number: 3830 Enrollment: Limited to 20.

*Ali S. Asani*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

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:* Offered jointly with the Divinity School as 3620.

*Prerequisite:* An introduction course in Islam or equivalent helpful but not essential.

**[\*Religion 1585. Islam in South Asia: Seminar]**

Catalog Number: 2741 Enrollment: Limited to 15

*Ali S. Asani*

*Half course (fall 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 2000–01. Offered jointly with the Divinity School as 3884.

*Prerequisite:* Introductory course in Islam or or equivalent.

### *Cross-listed Courses*

#### [Arabic 140. The Qur'an](#)

[Arabic 141. Introduction to the Hadith]

[Foreign Cultures 28. The Religion and Culture of Islam]

[Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies](#)

[History 1877a. History of the Near East, 600–1055]

[History 1889. Transmission of Traditional Islamic Learning in the Middle East from the Beginning of Islam to the Present](#)

[\\*Islamic Civilizations 200a. Approaches to Islamic Studies: Proseminar](#)

[\\*Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam](#)

### *Hindu*

#### *For Undergraduates and Graduates*

#### [Religion 1609. The Feminine in Indic Traditions](#)

Catalog Number: 6823

*Edwin Bryant*

*Half course (spring term). Tu., 3–5, and one hour to be arranged. EXAM GROUP: 17, 18*

This course will examine the rise of the Devi Goddess in Indic religions from her peripheral antecedents in the earliest Vedic tradition, through her role as the consort of the principal male deities, to her zenith as the Supreme Absolute Creatrix. Readings will include primary texts such as the Devi Gita. Tantric treatment of the goddess in the form of shakti will be considered, as well as pilgrimage to the 'seats' associated with her. Attention to the religious roles of Devi in the day to day lives of Hindu women in various contexts.

*Note:* Offered by the Divinity School as 3432.

#### [Religion 1610. Hindu Gurus in the West](#)

Catalog Number: 5561

*Edwin Bryant*

*Half course (fall term). Tu., 3–5, and one hour to be arranged. EXAM GROUP: 17, 18*

This course will focus on the phenomenon of the various Hindu religious traditions that have taken root in Western soil attracting significant membership amongst non–South Asians. The lives and teachings of personalities such as Guru Mayi, Aurobindo, Bhaktivedanta Prabhupada, Sivananda, Paramahansa Yogananda and others will be considered. Additional readings will be drawn from the classical texts that each guru claims to represent – Kashmir Saivism, the Vedic hymns, the Bhagavat Purana, the Upanisads, the Yoga Sutras, etc – with a view to examining issues of innovation and preservation.

*Note:* Offered by the Divinity School as 3431.



**Religion 1611. Krishna: God as Erotic Lover and Mischief Maker**

Catalog Number: 4662

*Edwin Bryant*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

This course will focus on Krishna, one of the most prominent figures of the Hindu religious landscape. Understood as the Supreme God by his devotees, the childhood pranks of this Divinity, as well as his erotic affairs with his female devotees, have captivated the hearts, minds and devotion of generations of Hindus. This course will examine the theology of Krishna, as well as his depiction in the various literary and poetic texts that feature him. Attention to rasa theory, an analysis of the various moods in which the devotee can approach God as a lover, child, friend or master.

*Note:* Offered by the Divinity School as 3430.

**[Religion 1612. Krishna: Seminar]**

Catalog Number: 7348 Enrollment: Limited to 15

*Edwin Bryant*

*Half course (fall term). Hours to be arranged.*

This course will focus on Krishna, one of India's most popular deities, looking at his various roles as pastoralist, child, lover, warrior, diplomat, teacher, and supreme God. Krishna will be studied chronologically through the principal Sanskrit sources that feature him. Consideration of 16th century theological traditions and popular devotional poetry. Attention to the introduction of Krishna in the West, and to the portrayal of this deity in art, iconography, and electronic media.

*Note:* Expected to be given in 2000–01. No prior knowledge of Hinduism required. Offered jointly with the Divinity School as 3833.

**[Religion 1613. Indian Theism: Seminar]**

Catalog Number: 7815 Enrollment: Limited to 15.

*Edwin Bryant*

*Half course (spring term). Hours to be arranged.*

This course examines the rich traditions of theistic Hindu thought that have been widespread and historically influential throughout the Indian subcontinent, but are generally less well-known than Shankara's monistic Vedanta. Consideration of the theistic passages of the Vedas and Upanishads and the relation of theism to the six principal philosophical schools — Nyaya, Vaisesika, Samkhya, Yoga, Mimamsa, and Vedanta. Primary focus on the philosophy of the devotional bhakti schools of the last millennium.

*Note:* Expected to be given in 2000–01.

**[Religion 1614. The Bhagavad Gita]**

Catalog Number: 8221

*Edwin Bryant*

*Half course (spring term). Hours to be arranged.*

The Bhagavad Gita is one of the best-known texts of the Hindu tradition. Incorporating elements from the oldest Vedas, concepts from the Upanishads, and features from the classical schools of Yoga, Sankhya, and Vedanta, the text serves as a base to overview much that has come to be known as Hinduism. Reading of the entire text, with special attention to a wide variety of



different commentaries, ancient and modern. Consideration of the role of the text in European Romanticism, Indian nationalism, and Western neo-Hindu religious movements.

*Note:* Expected to be given in 2000–01. No prior knowledge of Hinduism required. Offered jointly with the Divinity School as 3453.

**[Religion 1615r. Philosophies of India]**

Catalog Number: 9345

*Edwin Bryant*

*Half course (spring term). Hours to be arranged.*

This course will evaluate some of the principal philosophical schools of India. It will start with the earliest Vedic and Upanisadic texts, examine the six principal philosophical schools of Hindu orthodoxy—Nyaya, Vaisesika, Samkhya, Yoga, Mimamsa, and Vedanta—and consider the principal heterodox schools of Buddhism, Jainism, and Carvaka. The aim of the course is to overview the main categories of Indic thought over the centuries. Attention to the interaction and disagreements amongst these schools, as well as to their historical development.

*Note:* Expected to be given in 2000–01. No prior knowledge of Hinduism required. Offered jointly with the Divinity School as 3427.

**[Religion 1616. The Yoga of Devotion: A Reading of a Hindu Theological Text]**

Catalog Number: 8731

*Edwin Bryant*

*Half course (fall term). Hours to be arranged.*

The Bhagavata Purana has long been one of the best loved texts in India, and is today considered by millions of Hindus to be the most important exposition of bhakti yoga, the religion of love, devotion, and surrender to a personal God. Introducing itself as the ripened fruit of all Hindu literature, the text has provided some of the primary themes and stories that have inspired Indian drama, iconography, music, literature, and art for centuries. The course will primarily consist of a careful reading of the complete text.

*Note:* Expected to be given in 2000–01. No prior knowledge of Hinduism required. Offered jointly with the Divinity School as 3428.

**[Religion 1630. Bhakti: Hindu Devotional Movements]**

Catalog Number: 8707

*John B. Carman (Divinity School)*

*Half course (spring term). Hours to be arranged.*

This course will present an historical overview of Hindu devotional traditions in South India, Maharashtra, Gujarat, North India, and Bengal, including poetry in translation, sacred biographies of men and women saints, and philosophical systems of different sects.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3444.

*Cross-listed Courses*

**[Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage](#)**

*Primarily for Graduates*



**\*Religion 3601. Seminar: Readings in Hindu Myth, Image, and Pilgrimage**

Catalog Number: 3998

*Diana L. Eck 4514*

*Half course (fall 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:* Offered by the Divinity School 3869.

***Cross-listed Courses***

**[Indian Studies 206. Old Indian and Eurasian Creation Myths: Seminar]**

***Buddhist***

***For Undergraduates and Graduates***

**[Religion 1703. Theravada Buddhism]**

Catalog Number: 2892

*Charles Hallisey*

*Half course (spring term). Hours to be arranged.*

A general survey of the origins, systematic thought, and social history of the Theravada (“Way of the Elders”) in South and Southeast Asia. Emphasis given to the Theravada as a distinctive school of Buddhism and to the internal diversity of the Theravadin tradition.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3505.

**[Religion 1720. Buddhist Ethics: Proseminar]**

Catalog Number: 3961

*Charles Hallisey*

*Half course (fall term). Hours to be arranged.*

A systematic exploration of the place of ethics and moral reasoning in Buddhist thought and practice. The scope of the course is wide, with examples drawn from the whole Buddhist world, but emphasis is on the particularity of different Buddhist visions of the ideal human life.

Attention given to the problems of the proper description of Buddhist ethics in a comparative perspective.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3503.

**Religion 1721. Buddhist Views of Suffering: Seminar**

Catalog Number: 9894 Enrollment: Limited to 12, preference will be given to undergraduates.

*Charles Hallisey*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

The Buddha said, “I teach one thing and one thing only: suffering and the ending of suffering.”

This seminar will consider Buddhist views of suffering from a variety of angles in Buddhist thought and practice with an aim of exploring not only what can be learned about Buddhist views of suffering but also what can be learned from them.

*Note:* Offered jointly with the Divinity School as 3861.

*Prerequisite:* At least one course in the study of Buddhism or instructor’s permission.



**[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.*

A survey of Buddhist social teachings, this course 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. Representative figures and movements in the rise of socially engaged Buddhism since the 19th century will be considered.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3853.

*Prerequisite:* Previous study of Buddhism desirable.

**Religion 1726. Buddhism in America: Seminar**

Catalog Number: 4292 Enrollment: Limited to 15.

*Christopher S. Queen*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

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. Knowledge of Asian Buddhism is desirable. Offered jointly with the Divinity School as 3851.

*Cross-Listed Courses*

**[\*East Asian Buddhist Studies 114. The Mahayana in East Asia: Bodhisattvas and Their Cults in Medieval and Early Modern East Asian Buddhism]**

**[East Asian Buddhist Studies 206. Hua-yen: The Formation of a Chinese School of Buddhism]**

**[Tibetan 106. Buddhism in Tibet: Traditional Learning and the Experience of Enlightenment]**

*Chinese and Japanese*

*Cross-listed Courses*

**[Chinese History 240r (formerly Chinese History 240). Readings in Chinese Intellectual History]**

**Chinese History 251. Confucian Ethics: Proseminar**

**Historical Study A-13. Tradition and Transformation in East Asian Civilization: China**

**Historical Study A-14. Tradition and Transformation in East Asian Civilization: Japan**

**Japanese History 116a. History of Japanese Religions: Conference Course**

**Japanese History 116b. History of Japanese Religions: Conference Course**

**Japanese History 117. Religion and Gender in Japanese History: Conference Course**

**[Moral Reasoning 40. Confucian Humanism: Self-Cultivation and Moral Community]**



### ***Graduate Courses of Reading and Research***

#### **\*Religion 3000. Direction of Doctoral Dissertations**

Catalog Number: 1933

*Margaret Alexiou 1214 (on leave spring term), Ali S. Asani 7739, Clarissa W. Atkinson (Divinity School) 3101, François Bovon (Divinity School) 3551, John B. Carman (Divinity School) 1284, Harvey G. Cox, Jr. (Divinity School) 3479, Arthur J. Dyck (Public Health and Divinity School) 1670, Diana L. Eck 4514, James Engell 8076, Francis Fiorenza (Divinity School) 2735, William A. Graham, Jr. 4156, David D. Hall (Divinity School) 2510, Charles Hallisey 3032, Paul D. Hanson (Divinity School) 1394, Jay M. Harris 2266 (on leave fall term), J. Bryan Hehir (Divinity School) 2145, Albert Henrichs 4085, William R. Hutchison (Divinity School) 4061 (on leave fall term), Helmut H. Koester (Divinity School) 3477, James L. Kugel 7575 (on leave spring term), David Lamberth (Divinity School) 3714, Jon D. Levenson (Divinity School) 2264 (on leave 1999-00), Peter Machinist 2812, Francisco Márquez 5064, Everett I. Mendelsohn 2700, David Gordon Mitten 1290, Roy Mottahedeh 1454 (on leave fall term), Richard R. Niebuhr (Divinity School) 2183, Ralph B. Potter (Divinity School) 1046 (on leave spring term), Hilary Putnam 2838, Elisabeth Schüssler Fiorenza (Divinity School) 3193 (on leave spring term), P. Oktor Skjaervo 2869, Lawrence E. Sullivan (Divinity School) 2653, Stanley J. Tambiah 4692 (on leave 1999-00), Ronald Thiemann (Divinity School) 3395 (on leave 1999-00), and Wei-Ming Tu 7233*

*Note:* and others authorized by the Chair.

#### **\*Religion 3001. Reading and Research**

Catalog Number: 7954

*Margaret Alexiou 1214 (on leave spring term), Ali S. Asani 7739, Clarissa W. Atkinson (Divinity School) 3101, François Bovon (Divinity School) 3551, Edwin Bryant 3610, John B. Carman (Divinity School) 1284, Harvey G. Cox, Jr. (Divinity School) 3479, Arthur J. Dyck (Public Health and Divinity School) 1670, Diana L. Eck 4514, James Engell 8076, Francis Fiorenza (Divinity School) 2735, William A. Graham, Jr. 4156, David D. Hall (Divinity School) 2510, Charles Hallisey 3032, Paul D. Hanson (Divinity School) 1394, Jay M. Harris 2266 (on leave fall term), Albert Henrichs 4085, William R. Hutchison (Divinity School) 4061 (on leave fall term), Helmut H. Koester (Divinity School) 3477, James L. Kugel 7575 (on leave spring term), David Lamberth (Divinity School) 3714, Jon D. Levenson (Divinity School) 2264 (on leave 1999-00), David Little (Divinity School) 2793, Peter Machinist 2812, Francisco Márquez 5064, Everett I. Mendelsohn 2700, David Gordon Mitten 1290, Roy Mottahedeh 1454 (on leave fall term), Richard R. Niebuhr (Divinity School) 2183, Kimberley C. Patton (Divinity School) 3306, Ralph B. Potter (Divinity School) 1046 (on leave spring term), Hilary Putnam 2838, Elisabeth Schüssler Fiorenza (Divinity School) 3193 (on leave spring term), Lawrence E. Sullivan (Divinity School) 2653, Stanley J. Tambiah 4692 (on leave 1999-00), Ronald Thiemann (Divinity School) 3395 (on leave 1999-00), Wei-Ming Tu 7233, Cornel West 1212, and Preston N. Williams (Divinity School) 3153*

*Note:* and others authorized by the Chair.

#### **\*Religion 3002. Foreign Language Certification**

Catalog Number: 4791

*Members of the Committee*



*Half course (fall term; repeated spring term). Hours to be arranged.*

Reading and research conducted in a specific foreign language, normally French or German, to satisfy the modern language reading proficiency requirement for Ph.D. students in the Study of Religion.

*Note:* Limited to Ph.D. candidates who receive written permission from the Committee's Director of Ph.D. Studies.

## Romance Languages and Literatures

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Romance Languages and Literatures*

Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature (*Chair*)

Ana María Amar Sánchez, Associate Professor of Romance Languages and Literatures

Laura Benedetti, John L. Loeb Associate Professor of the Humanities

Bruno G. Bosteels, Assistant Professor of Romance Languages and Literatures (*fall term only*)

Marie-France Bunting, Senior Preceptor in Romance Languages and Literatures (*Undergraduate Advisor in French*)

Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature (*Undergraduate Advisor in Portuguese and Director of Graduate Studies in Portuguese*)

Tom Conley, Professor of Romance Languages and Literatures (*Director of Graduate Studies in French*)

Verena A. Conley, Visiting Professor of Literature

Elvira G. DiFabio, Senior Preceptor in Romance Languages and Literatures (*Undergraduate Advisor in Italian*)

Samba Diop, Assistant Professor of Romance Languages and Literatures

Bradley S. Epps, Professor of Romance Languages and Literatures (*Director of Undergraduate Studies and Undergraduate Advisor in Romance Studies*)

Luis Fernández-Cifuentes, Robert S. and Ilse Friend Professor of Romance Languages and Literatures (*Director of Graduate Studies in Spanish*)

Franco Fido, Carl A. Pescosolido Professor of Romance Languages and Literatures (*on leave spring term*)

Juan Flores, Visiting Professor of Romance Languages and Literatures (*City College of New York*) (*spring term only*)

Michael Andrew Fodor, Preceptor in Romance Languages and Literatures

Alban K. Forcione, Visiting Professor of Romance Languages and Literatures (*Princeton University*) (*Spring term only*)



Judith Frommer, Professor of the Practice of Romance Languages (*Director of the Language Programs in Romance Languages*) (*on leave 1999-00*)

Mary Gaylord, Professor of Romance Languages and Literatures (*on leave 1999-00*)

Luis M. Girón Negrón, Assistant Professor of Comparative Literature and of Romance Languages and Literatures

Virginie Greene, Assistant Professor of Romance Languages and Literatures and of History and Literature

Nina C. de W. Ingrao, Senior Preceptor in Romance Languages and Literatures

Alice Jardine, Professor of Romance Languages and Literatures

Giulio C. Lepschy, Lauro de Bosis Lecturer on Italian Civilization (*University of Reading*) (*spring term only*)

Johanna Damgaard Liander, Senior Preceptor in Romance Languages and Literatures

Francisco Márquez, Arthur Kingsley Porter Professor of Romance Languages and Literatures

José Antonio Mazzotti, Assistant Professor of Romance Languages and Literatures (*Undergraduate Advisor in Spanish*)

Christie McDonald, Smith Professor of French Language and Literature

Jeffrey Stewart Mehlman, Visiting Professor of Romance Languages and Literatures (*Boston University*) (*Spring term only*)

Marlies Mueller, Senior Preceptor in Romance Languages and Literatures

Sandy Petrey, Visiting Professor of Romance Languages and Literatures (*SUNY Stony Brook*) (*spring term only*)

Lino Pertile, Professor of Romance Languages and Literatures and Professor of Comparative Literature (*Director of Graduate Studies in Italian*)

Roberto Schwarz, Robert F. Kennedy Visiting Professor of Latin American Studies

Patricia Sobral, Preceptor in Romance Languages and Literatures

Doris Sommer, Professor of Romance Languages and Literatures

D. Lorraine Sterritt, Lecturer on Romance Languages and Literatures

Abby Zanger, Associate Professor of Romance Languages and Literatures

The curriculum in Romance Languages and Literatures includes courses in French, Italian, Portuguese, Romance Linguistics, Romance Studies, and Spanish, and is structured in four large groupings: 1) Letters (A-C) designate elementary and early intermediate courses covering the first four semesters of language study; 2) Numbers 1-99 indicate courses in language, literature, and culture designed primarily for undergraduates. Numbers 1-59 give special attention to the development of language skills in a variety of literary and cultural contexts. Within this group, the first digit indicates the year of language study (i.e., 35 is third year). Courses numbered 50-59 offer the most advanced level of language study and are also open to graduate students. Courses 70-79 are introductory surveys of literature. 90-99 include tutorials for concentrators and a new series of undergraduate seminars, limited to 15 students, which offer introduction to the specialized study of literature. Numbers of courses above 59 do not reflect a required level of language proficiency. 3) 100-level courses are offered to undergraduates and graduate students; 4) 200-level courses, chiefly seminars, are offered primarily for graduate students.

For courses in general and comparative Romance literature, see listings of the Department of Comparative Literature.



No language courses may be taken pass/fail. Graduate students in the Faculty of Arts and Sciences may take language courses (numbered A-52) for a grade of SAT/UNSAT, with permission of the instructor. All Romance language courses, 100-level and above, may be taken Pass/Fail without the instructor's signature unless otherwise noted. Undergraduates are free to enroll in 200-level graduate courses without the instructor's signature unless otherwise noted. No auditors are allowed in lettered language courses. No one may enter A level courses after the eighth meeting of the class, Bab classes after the first meeting, or a C or 20 level course after the sixth meeting.

## ***Catalan***

### ***Primarily for Undergraduates***

#### **[Catalan A. Elementary Catalan]**

Catalog Number: 8472

*Bradley S. Epps and staff.*

*Full course (indivisible). Fall: M., W., F., at 1. EXAM GROUP: Fall: 6*

A basic course in Catalan, the language of approximately six million people in parts of Spain, France, and Italy, with its own rich literary and cultural traditions. Emphasizing oral communication, reading and writing, Catalan A will include a selection of literary and historical texts and will offer students contact with contemporary Catalunya through the press and Internet sites. At the end of the course students should be able to hold a conversation in Catalan and should have gained an understanding of multiculturalism in the "new" Europe in which so-called regional languages are assuming renewed importance.

*Note:* Conducted in Catalan. Knowledge of another Romance language is useful but not essential.

#### **Catalan Ba. Introduction to Catalan**

Catalog Number: 2153

*Bradley S. Epps and Staff*

*Half course (spring term). Tu., Th., 3–5. EXAM GROUP: 17, 18*

A basic introductory course in Catalan, the language of approximately six million people in parts of Spain, France, and Italy, with its own rich literary and cultural traditions. Emphasizing oral communication, reading, and writing, Catalan Ba will include a selection of literary and historical texts and will offer students contact with contemporary Catalonia through the press and Internet sites. The course will cover approximately two-thirds of the material normally covered in first year Catalan.

*Note:* Conducted in Catalan. Knowledge of another Romance language is useful but not essential.

## ***French***

The term “placement score” or “placement test” below and in the various course descriptions refers to the French placement test given during Freshman Week for freshmen, and usually on Registration Day for returning students. All students with some previous French in secondary



school are required to take the placement test.

Students who receive a grade of 4 or 5 in the College Board Advanced Placement Examinations in French Literature are admitted directly into French 47 and 48, with permission of instructor, and also into middle-group courses of French literature. Students who receive a grade of 4 or 5 in the College Board Advanced Placement Examinations in French Language normally are admitted to French 47 with the permission of the instructor. For details of Advanced Placement see the pamphlet *Advanced Standing at Harvard College* or apply to the Director of the Program of Advanced Standing.

### *Primarily for Undergraduates*

#### **French A. Elementary French**

Catalog Number: 3373

*Marlies Mueller and staff*

*Full course (indivisible). Five meetings a week and laboratory, M. through F. Section I at 9; Section II at 10; Section III at 11; Section IV at 12; Section V at 1. EXAM GROUP: 12*

A complete basic course covering all major grammatical constructions for students with little or no knowledge of French. A multi-media approach, with an initial emphasis on oral mastery of the language, furnishes a solid basis for the development of reading and writing skills during the Spring term. By the end of their first year of language training, students will speak simple, correct French, and will have read such landmark authors as Victor Hugo (*Fantine*), Mérimée (*Carmen*), and Sartre (*Huis Clos*) in their original language, yielding an introduction to French Culture and aesthetics as reflected in literary and cinematic masterpieces.

*Note:* French A fulfills the language requirement. Students whose placement score does not entitle them to enter a more advanced course are assigned to French A. May not be taken Pass/Fail.

#### **French Ax. Reading French**

Catalog Number: 2763

*Marlies Mueller and staff*

*Half course (fall term). Section I: Tu., Th., 10–11:30; Section II: Tu., Th., 11:30–1. EXAM GROUP: 13*

An introduction to reading modern French prose for students who require only reading knowledge of French for research purposes. Selection of materials in accordance with students' needs. Some previous study of a Romance language helpful but not necessary.

*Note:* Not open to students with a score of 500 or above on the SAT II French test, or to graduate students 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.

#### **\*French Bab. Intensive Elementary 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., through F., at 1 and Tu., Th., at 2. EXAM GROUP: 3, 12, 13*

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. Interested students should see the Course Instructor for an interview during the fall term reading period.

*Prerequisite:* An advanced knowledge of at least one foreign language.

### **French Ca. Intermediate French I**

Catalog Number: 1810

*Marie-France Bunting 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 the basic communication skills of listening, speaking, reading, and writing, and including a study of grammar, aided by computer tutorials. Students become familiar with contemporary France through videotapes, feature length films, and interactive videodisc and are introduced to French literature through a selection of short texts.

*Note:* Conducted in French. Open to students who have passed French A or for initial placement, to students with a placement score of 500-599 on the SAT II test or the Harvard Placement Test, or 3 years of French in high school, or with permission of the instructor. May not be taken Pass/Fail.

### **French Cb. Intermediate French II: La Francophonie**

Catalog Number: 6343

*Marie-France Bunting and staff*

*Half course (spring term). Three weekly meetings M., W., F.: Section I, at 9; Section II, at 10; Section III, at 12; Section IV at 1. EXAM GROUP: 10*

Aims to further develop the four communicative skills while introducing students to the concept of “la francophonie” as represented in literature and films from Quebec, the Caribbean, and Africa. In French Cb, students continue the study of grammar begun in French Ca.

*Note:* Conducted in French.

*Prerequisite:* Open to students after French Ca, or with a placement score of 600-659 on the SAT II test or the Harvard Placement test; or by permission of instructor. May not be taken pass/fail.

### **French 25. Intermediate French III: L’Etre humain et son univers**

Catalog Number: 8781

*Marlies Mueller and staff*

*Half course (fall term; repeated spring term). Fall: M., W., F., Section I at 9; Section II at 10; Section III at 12; Spring: M., W., F., at 10. EXAM GROUP: Fall: 10; Spring: 3*

An introduction to French literature and cinema combined with a complete review of French grammar. Contemporary texts and films are chosen that explore enduring questions of human experience. Reflections on the meaning of life are compared and contrasted. Authors and filmmakers include Baudelaire, Camus, Kieslowski, Pagnol, Rimbaud, and Sartre. By the end of the semester, students should be able to understand lectures in French and express their thoughts



orally and in writing with confidence using simple, complete French.

*Note:* Conducted in French. Open to students with 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, for initial placement, a placement score between 600-659 on the SAT II test or the Harvard Placement test; or by permission of the instructor. May not be taken Pass/Fail.

### **French 27. French Oral Survival: Le Français parlé**

Catalog Number: 3060

*Marie-France Bunting and staff*

*Half course (fall term; repeated spring term). Fall: M. through F., Section I at 9; Section II at 12; Section III at 1; Spring: M., through F., Section I at 9; Section II at 12; Section III at 1.*

**EXAM GROUP: 2**

A course stressing oral communication intended to prepare students for immersion in any Francophone country. Current vocabulary, idiomatic expressions, and culturally appropriate speech strategies are presented thematically. Students improve listening and speaking skills using videotapes, films, interactive videodiscs, and audiocassettes; they review grammar with a computer tutorial. Weekly articles from the French press offer opportunities to develop reading skills while providing information about contemporary France. After taking French 27, students should feel at ease speaking French and conversing with native speakers and should be able to handle all situations encountered in everyday life.

*Note:* Open to students with a placement score of 600-659 on the SAT II test or the Harvard Placement test; and to those who have received a grade of B+ in French A or Bab, a B in French Ca with language requirement completed, or a B in French Cb or French 25, or permission of instructor. French 27 may not be used to fulfill the language requirement and may not be taken Pass/Fail.

### **[French 30. Oral Expression: Sujets d'actualité et problèmes sociaux]**

Catalog Number: 1292

*Judith Frommer and staff*

*Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: 3*

Intended for students with a knowledge of everyday French who want to learn to speak on a more sophisticated level. Discussions and debates on topics of current interest are based on French films and excerpts from literature and the French press. While stressing acquisition of oral expression, the course also includes practice in writing and a review of grammar.

*Note:* Expected to be given in 2000-01. Conducted in French. May not be taken Pass/Fail.

*Prerequisite:* Open to students with a placement score of 660 the SAT II test or the Harvard Placement test. Also open to students who have taken French Cb, French 25, or French 27, or by permission of the instructor.

### **French 31. Oral Expression: La France à travers les medias**

Catalog Number: 0490

*Michael Andrew Fodor and staff*

*Half course (fall term; repeated spring term). M., W., F., at 11. EXAM GROUP: Fall: 4*

Designed for students with a conversational level of French who want to further develop their oral-aural skills. Students will increase their vocabulary and acquire more sophisticated speech strategies while learning about France through the French press, (both written and audio-visual),



films, and the world wide web. The course will include a grammar review and practice in writing.

*Note:* Conducted in French. May not be taken Pass/Fail.

*Prerequisite:* Open to students with a placement score of 660 on the SAT II test or the Harvard Placement test. Also open to students who have taken French 25 or French 27, or by permission of the instructor.

### **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). Fall: Section I: M., W., F., at 10; Section II: M., W., F., at 11; Section III: M., W., F., at 1. Spring: Section I: M., W., F., at 10; Section II: M., W., F., at 11. EXAM GROUP: 3, 4*

A course in French language, literature, and film designed to develop facility in speaking, listening comprehension, writing, and reading at the advanced level. Considers representations of the self in French literature and cinema, and the various cultural institutions within which individuality is constructed. Genealogy, politics, law, art, memory, education, and religion are considered in literary context. How does one arrive at knowledge of self, and what are the consequences of this knowledge? Authors and filmmakers attempting to answer this question include Baudelaire, Camus, Duras, Hugo, Leconte, Truffaut, and Vercors; course includes a complete grammar review and vocabulary building, in context.

*Note:* Conducted in French.

*Prerequisite:* For initial placement, French 25, or permission of instructor. Open to students with a placement score of 660 on the SAT II test or the Harvard Placement test taken. May not be taken Pass/Fail.

### **French 36. Upper-Level French II: Liberté et Conscience**

Catalog Number: 6963

*Marlies Mueller and staff*

*Half course (spring term). M., W., F., Section I at 10; Section II at 11; Section III at 1. EXAM GROUP: 13*

An 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? What ethical difficulties does the affirmation of individual liberty occasion? Politics, philosophy, art, and literary imagination are considered as they relate to the creation and expansion of human autonomy. Authors and film directors include Balzac, Beauvoir, Camus, Granier-Deferre, Maupassant, Nuytten, Ophuls, Renoir, Ribowska, and Yourcenar. Grammar is reviewed in context, complemented by audiotapes, videotapes, films, and optional computer-assisted instruction materials designed to sharpen oral/aural skills.

*Note:* Conducted in French.

*Prerequisite:* French 25, 27, 30, or 35; a placement score of 690 on the SAT II test or the Harvard Placement test ; or permission of the instructor. May not be taken Pass/Fail.

### **French 37. Les régions de France: hier et aujourd’hui**

Catalog Number: 7909

*Marie-France Bunting and staff*



*Half course (fall term). M., W., F., Section I at 10; Section II at 12. EXAM GROUP: 3*

A journey through various regions of France surveying the present and past identities of Bretagne, Alsace, and Provence, through art, folklore, traditions, regional literature. Resources for class discussions include current articles from the French press, information from web sites, and historical and literary writings as well as films and video documents. Emphasis on oral and written 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.

*Prerequisite:* French 31, 35 or 36. Open to students with a placement score of 710 on the SAT II test or the Harvard Placement test, or by permission of the instructor.

### **French 38b. Introduction to Francophone Literature**

Catalog Number: 2581

*Marie-France Bunting and staff*

*Half course (spring term). Section I: M., W., F., at 10; Section II: M., W., F., at 12. EXAM GROUP: 3*

Designed to introduce students to the works of some leading Francophone writers from Quebec, Antilles, North and West Africa while helping them acquire greater skills and confidence in both oral and written expression. Discussions will focus on issues of identity and alienation as expressed in the works of Hébert, Césaire, Schwarz-Bart, Sembene, Laye, and Chraïbi.

*Note:* Conducted in French. May not be taken pass/fail.

*Prerequisite:* French 31, 35, 36, 37. Open to students with a placement score of 710 on the SAT II test or the Harvard Placement test, or permission of the instructor.

### **French 45. Le Français économique et commercial**

Catalog Number: 7122

*Michael Andrew Fodor*

*Half course (spring term). Section I: Tu., Th., 10–11:30; Section II: Tu., Th., 1–2:30. EXAM GROUP: 12, 13*

Designed for students interested in international business or affairs or who intend to work or travel for business in French-speaking countries. Through audiovisual materials, and current newspaper and magazine articles, 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. Students learn specialized business and economic vocabulary and the principles of business correspondence. Those enrolled may take the Paris Chamber of Commerce and Industry exams and obtain an official certificate attesting to their proficiency in French.

*Note:* Conducted in French. May not be taken Pass/Fail.

*Prerequisite:* Open to students with a placement score of 660 on the SAT II test or the Harvard Placement test. Also open to students who have taken French 25 or French 27, or by permission of the instructor.

### **French 47. Contemporary French Society at the Turn of the Century**

Catalog Number: 5611

*Marie-France Bunting*

*Half course (fall term). Section I, M., W., F., at 10; Section II, M., W., F., at 12. EXAM GROUP:*



3

Advanced study of French which combines an active use of the language and practice in writing with a close look at some fundamental issues within contemporary French society. We will study in depth such topics as: family, gender, the educational system, urban problems, and social stratification. Resources for class discussion include readings from sociological, historical and literary sources as well as articles from the French press and websites. Films and documentaries are frequently used to add a cultural and human understanding to the course material.

*Note:* Conducted in French. May not be taken Pass/Fail. Open to students with a placement score of 760 on the SAT II test or the Harvard Placement test.

### **French 48. French Institutions: Some Current Debates**

Catalog Number: 8290

*Marie-France Bunting*

*Half course (spring term). Section I, M., W., F., at 10; Section II, M., W., F., at 12. EXAM*

*GROUP: 3, 5*

Designed to develop greater linguistic fluency while introducing students to some major debates in French society today. Themes to be explored include: French politics, immigration, religion, the relationship of France with its former colonies, the French language, “l’exception culturelle,” “la Francophonie,” and France within the European Union. Students will participate in discussions based on readings from the French press and websites as well as from sociological, historical 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.

*Prerequisite:* French 37, 38, 45 or 47. Open to students with a placement score of 780 on the SAT II test or the Harvard placement test; or by permission of the instructor.

### **French 51. Writing Workshop**

Catalog Number: 0575

*Marie-France Bunting*

*Half course (fall term). M., W., 3–4:30. EXAM GROUP: 8, 9*

Aims to strengthen and develop the students’ competence in written expression. Using short novels, short stories, essays and sample texts drawn from history, philosophy, and journalism, students learn to practice different styles in creative, argumentative, and analytical writings. Special emphasis will be paid to stylistic variations, lexical nuances, and complex grammatical structures. In addition, we will study certain forms of French rhetoric such as *le résumé* (summary), *la lecture méthodique* (close reading), and *la dissertation littéraire*. Students’ work will be discussed in class and in private conferences.

*Note:* Conducted in French.

*Prerequisite:* Open to students with a Harvard Placement test of 750, or by permission of the instructor. Recommended for concentrators and joint concentrators.

### **French 52. Advanced Oral Expression**

Catalog Number: 2610

*Marie-France Bunting*

*Half course (spring term). M., W., 3–4:30. EXAM GROUP: 8, 9*

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 threefold: to fine-tune listening comprehension; to develop linguistic skills in presenting oneself, expressing emotions, debating, negotiating, counseling, persuading, etc.; and to improve pronunciation (practice of sounds, intonation and rhythm through short dialogues and memorization of poems). Authentic materials in print or on audio or video cassettes will be used as models. In addition to practical, corrective work, students will participate collectively in a theatrical production as a final class project.

*Note:* Conducted in French.

*Prerequisite:* Open to students with a score of 750 on a Harvard Placement test, or by permission of the instructor. Recommended for concentrators and joint concentrators.

### **French 70a. Introduction to French Literature I: The Beginnings of Literary Space**

Catalog Number: 2865

*Tom Conley*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13*

Panorama of texts selected from medieval, early modern, and classical periods. Emphasis on literature and the visual arts.

*Note:* Lectures in French, accompanied by viewings of related visual materials; and discussion.

*Prerequisite:* Open to students with a placement score of 660 on the SAT II test or the Harvard Placement test, equivalent preparation, or permission of instructor.

### **French 70b. Introduction to French Literature II: From the Romantics to the Present**

Catalog Number: 6720

*Alice Jardine*

*Half course (spring term). M., 1–3, plus one additional hour to be arranged. EXAM GROUP: 6, 7*

Significant texts from the 19th and 20th centuries examined in the light of contemporary literary and cultural criticism.

*Note:* Lectures in French; third hour devoted to discussion of texts studied.

*Prerequisite:* Ability to understand and read French with ease.

### **French 70c. Introduction to French Literature III: The Francophone World**

Catalog Number: 6432

*Samba Diop*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Studies short stories, poetry, film, and drama from Black Africa, Quebec, Martinique, Guadeloupe, French Guyana, Vietnam, Algeria, Morocco, Tunisia, Madagascar, Djibouti, and La Réunion.

*Note:* Expected to be omitted in 2000–01. Lectures in French.

*Prerequisite:* Ability to understand and read French with ease.

### **\*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. The French Tutorial: What is “Literature”?**

Catalog Number: 0173

*Abby Zanger*

*Half course (fall term). F., 2–4:30.*

Group tutorial. Introduction to literary theory in the Francophone tradition. Particular attention paid to theories of textuality from the 17th century to the present day, including post-War French theoretical questions. Authors range from Pascal to Foucault, Mallarmé to Kristeva, Diderot to Derrida, Balzac to Barthes, and others.

*Note:* Required of concentrators in their sophomore year. Open to non-concentrators by permission of the instructor. Conducted in French.

**\*French 99. Tutorial — Senior Year**

Catalog Number: 2836

*Marie-France Bunting and members of the Department*

*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 permission of the Undergraduate Advisor 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, the Undergraduate Advisor in French.

*Cross-listed Courses*

**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**

[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*

**French 100. History of the French Language**

Catalog Number: 4197

*Virginie Greene*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Presents the evolution of French from Latin to modern French, introduces basic phonology and morphology, discusses policies attempting to rule the use of French and its dialects from the 9th century to the present.

*Note:* Expected to be omitted in 2000–01. 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 (fall term). Hours to be arranged. EXAM GROUP: 12, 13*

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 2000–01. Conducted in French.

### **French 109. Representations of Death and Mourning in French Medieval Literature**

Catalog Number: 0180

*Virginie Greene*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Death will be studied as a perspective on social and cultural values. We will investigate how medieval literature treats death through a selection of narrative, lyric, and didactic texts, ranging from *La Vie de Saint Alexis* (11th century) to *Le Testament Villon* (15th century). We will also consider representations pertaining to death in painting and sculpture.

*Note:* Expected to be omitted in 2000–01. Conducted in French.

### **French 111. Comic Prose and Cultural Ideologies in 16th-Century France**

Catalog Number: 8949

*D. Lorraine Sterritt*

*Half course (fall term). Tu., Th., at 9. EXAM GROUP: 11*

This course will involve close readings of selected comic and satiric literary works. We will examine the relationship between these works and the ideologies (e.g., humanism, evangelism, feminism) on which they provide commentary. We will also consider a variety of modern critical approaches (narratological, historical, linguistic, stylistic, cultural, feminist) to the 16th-century texts. Readings will include works by Rabelais and Marguerite de Navarre and brief selections (in translation) from Boccaccio's *Decameron*.

*Note:* Expected to be omitted in 2000–01. Conducted in French.

*Prerequisite:* French 70a or permission of the instructor.

### **French 127a (formerly French 127). Early Modern Books and Their Readers**

Catalog Number: 1943

*Abby Zanger*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

In an era that has prophesied the death of print in the face of electronic media and the information highway, what can be learned from the history of books and other printed materials? In order to better understand the objects handled constantly in everyday life and that form the center of the university curriculum, the first half of this course focuses on topics from the history of the book in early modern France such as the invention of the printing press, the book as material object, scribal culture, the relation of gender to publishing, and the issues of property and authorship. It then turns to particular cases (Montaigne, Crenne, Descartes, Molière, Furetière, Lafayette) and to student projects.

*Note:* Expected to be omitted in 2000–01. Taught in English. Excellent reading knowledge of French is required.

### **French 129. Louis XIV and the Generation of the Sixties**

Catalog Number: 1051

*Abby Zanger*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*



Studies the first decade of the reign of Louis XIV and the generation of writers that came of age during this period. Focuses on transitions occurring in French culture during this era, including changes in the notion of the intellectual, debates over visual art and tensions between Paris and the court. Authors read include Molière, Perrault, Racine, Lafayette, Boileau, La Fontaine, and others who came to prominence during this decade.

*Note:* Expected to be omitted in 2000–01. Conducted in French.

### **French 130. Literature and Cartography: History and Theory**

Catalog Number: 7252

*Tom Conley*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Studies groundwork of a new field through comparative analysis of space, language, and locational imaging from late-medieval texts to the computer. Readings will extend into early modern print-culture (Rabelais, Finé, Thevet), the classical age (Descartes, Corneille, Sanson); the Enlightenment (Diderot, Cassini survey, Vaugondy); post-1789 (De Lisle, Balzac, Vidal de la Blache); the age of cinema (Clair, L'Herbier, Godard). Theory includes Certeau, Deleuze, Foucault, Jacob, Lefebvre.

*Note:* Conducted in English or French, depending upon desire of students enrolled.

### **[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 happens to fiction when it rejects realism? Does it become surreal, transgressive, revolutionary, playful, new, or repetitive and boring? Discussion of works between the 1920's and 1980's by Breton, Beckett, Queneau, Perec, the *nouveaux romanciers* and avant-garde feminist writers, among others.

*Note:* Expected to be given in 2001–02.

### **French 136. Feminist Literary Criticisms**

Catalog Number: 3845

*Alice Jardine*

*Half course (fall term). M., 1–3. EXAM GROUP: 6, 7*

Close readings of postwar French fiction and theory with emphasis on what is called “the feminine” in key psychoanalytic, philosophical, and literary feminist writings of the French poststructuralist tradition. What has been the legacy and impact of the last three decades of dialogue between French “theory” and feminist “practice” in the United States? Writings to be considered include Hélène Cixous, Marguerite Duras, Jeanne Hyvrard, Luce Irigaray, Julia Kristeva, and Monique Wittig as well as Gilles Deleuze, Jacques Derrida, and Jacques Lacan.

*Note:* Expected to be omitted in 2000–01. Conducted in English. Readings in French.

*Prerequisite:* Excellent reading knowledge of French.

### **[French 139a (formerly French 139). The 18th Century: Self and Society]**

Catalog Number: 2906

*Christie McDonald*

*Half course (fall term). Hours to be arranged.*



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:* Expected to be given in 2000–01. Given in French.

### **French 139b. The 18th Century: Ethical Dilemmas**

Catalog Number: 2223

*Christie McDonald*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Questions how notions of the 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 omitted in 2000–01. Conducted in French.

### **French 155. Mallarmé & the Fate of Reading**

Catalog Number: 2195

*Jeffrey Stewart Mehlman (Boston University)*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

A close reading of the poetry and prose of one of the seminal figures of modern literature with particular attention to the implications for reading in general entailed by the limit to which Mallarmé pressed the poetic project. The course will also attend to the most significant critical and philosophical statements on the poet and, as such, will constitute a succinct history of French thought since World War II as refracted through the reading of Mallarmé.

*Note:* Conducted in French.

### **French 159. The 19th Century “Author”: Studies of Major Writers and their Movements**

Catalog Number: 3972

*Susan R. Suleiman and Tom Conley*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

This course, to be taught in three segments by visiting professors from Paris, Jacques Rancière, Lucette Finas, and Alain Pagès, will examine major 19th-century novelists and poets through close analysis and historical treatment of selected texts. Works by Balzac, Hugo, Mallarmé, Zola, and others.

*Note:* Conducted in French.

### **[French 161. The Subject in Question]**

Catalog Number: 3214

*Christie McDonald*

*Half course (spring term). Hours to be arranged.*

Explores the question of the subject in autobiographical and biographical writings: how identities constituted in fiction and nonfiction explore the limits of available models (rhetorical, historical, political, and sexual) from the Western tradition. Readings include works by such authors as Rousseau, Stein, de Beauvoir, Sartre, Barnes, Barthes, Carol Shields, Gabrielle Ray.

*Note:* Expected to be given in 2000–01. Conducted in English. French concentrators may take



for credit.

*Prerequisite:* Reading knowledge of French recommended.

### **French 165. Marcel Proust**

Catalog Number: 4620

*Christie McDonald*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

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 omitted in 2000–01. Conducted in French.

### **French 167. Parisian Cityscapes**

Catalog Number: 7641

*Verena A. Conley*

*Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15*

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, de Beauvoir, Beyala, Godard, Kassovitz, Maspero, Latour, Ross and others).

*Note:* Conducted in French.

### **French 175. Julia Kristeva: Introduction and Conclusions**

Catalog Number: 1888

*Alice Jardine*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

A textual and political introduction to one of the most important intellectuals of the 20th century as well as an attempt to draw some conclusions about the promises of her work for the future. Special attention will be paid to the question of gender and women in her writings.

*Note:* Conducted in English with readings in French.

*Prerequisite:* Excellent reading knowledge of French. Some background in French Poststructuralist Theory would be helpful.

### **[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 2000–01. Conducted in French.

### **[French 188. Women Francophone Writers]**

Catalog Number: 9922

*Samba Diop*



*Half course (spring term). Hours to be arranged.*

Women writers of the Francophone world brought forth a style of writing referred to as *l'écriture féminine* and *féministe*. Their narratives project a new social vision based on the elucidation of problems that reflect the colonial and post-colonial world. Thus, there is a dynamic impulse predicated on the articulation of themes pertaining to societies where women are at the forefront in many areas; through the aid of narratives, we are given specific interpretations of topics: family, polygeny, modern/urban and rural life, education, marriage, the workplace, gender, race and ethnicity, etc. Authors include A. Andria, A. Sow Fall, M. Bâ, K. Bugul, C. Njuzi, H. Bassek, W. Liking, M. Rakotoson, (Africa and Madagascar); A. Djébar, F. Mernissi (Maghreb); M. Lacrosil, M.-T. Colimon, M. Condé (Antilles); M. Ndiaye, C. Beyala (France).

*Note:* Expected to be given in 2000–01. Conducted in French.

### **French 190. The Post-Colonial Novel**

Catalog Number: 0599

*Samba Diop*

*Half course (fall term). M., 3–6. EXAM GROUP: 8, 9*

Discusses novels and narratives written by African writers in the period following the political independences in the 1960's. In these works, the main themes are wrought around living conditions in the former French colonies; additionally, these writers experiment with new forms of writings by embedding in their narratives techniques such as satire, pastiche, parody, verisimilitude, imagery, and magic realism. Authors: C.H. Kane, A. Kouroumah, M. Bâ, Sow Fall, H. Lopes, S.L. Tansi, M. Beti, Boris Diop, E. Dongala.

*Note:* Conducted in French.

### **[French 191. Le roman d' Afrique noire]**

Catalog Number: 3569

*Samba Diop*

*Half course (fall term). Hours to be arranged.*

A selection of novels that runs the gamut of African Francophone fictional narratives will be selected and discussed. There are various sub-genres among these novels: “roman historique”, “roman autobiographique”, “roman de mœurs”, “roman urbain”, “roman rural”, etc. Various novelists whose concerns cover a vast array of topics such as the encounter between Africa and Europe, the description of African customs, religions, and ways of life, family life, so on and so forth, will be read: H. Ba, F. Oyono, O. Sembène, M. Beti, A. Sow Fall, M. Bâ, M. Diabate, R. Maran, H. Lopes.

*Note:* Expected to be given in 2000–01. Conducted in French.

### **French 194. Francophone Film and Cinema**

Catalog Number: 9392

*Samba Diop*

*Half course (spring term). Th., 2–4, with additional film screenings on Wednesday evenings.*

*EXAM GROUP: 16, 17*

Francophone cinema articulates themes in visual forms, with a distinct style of expression: colonization; decolonization; millenarian politics; the status of women; Western consumerism; the disenfranchised poor; Islam, Christianity and African religions; the *griot* and epic traditions; urban and rural life; myths and folktales; post-colonial life; education; reverse anthropology; etc.



The peculiarity of Francophone cinema is that national languages such as Berber, Wolof, Arabic, Creole, Mandinka, are used as media of expression. However because of the interferences with French, there is a diglossia between French and the national languages. Contrary to the novel, films allow us a broader view of the landscapes and of peoples in concrete forms. Screening: O. Sembène, A. Djébar, D. Diop Mambéty, G. Kaboré, D. Achkar, M. Diawara, E. Palcy.  
*Note:* Expected to be omitted in 2000–01. Conducted in French.

**[French 196. Masterpieces of Literature from Africa]**

Catalog Number: 5193

*Samba Diop*

*Half course (spring term). Hours to be arranged.*

The works of Glissant, Kane, Césaire, Condé, Schwartz-Bart, Ben Jelloun, Damas, Zobel, Roumain, Chamoiseau, Senghor. Exposes students to the African and Francophone world by exploring and analyzing in depth major themes pertaining to Francophone literature and poetry: The search for a usable identity, the appropriation of Western and European values by the colonized subject, the aim for freedom and emancipation, the struggle to undo European rule on the colonized, women's role and aspirations in Africa, the affirmation of a Negro and Black personality through a philosophy such as Negritude, as well as the pertinence of the novel and of poetry in the postcolonial African and Francophone world.

*Note:* Expected to be given in 2000–01. Conducted in English.

***Cross-listed Courses***

**[Literature 119. The Holocaust and Problems of Representation]**

**[\\*Literature 129. Reading the 18th Century Through 20th-Century Eyes](#)**

***Primarily for Graduates***

**[French 253. Varieties of Realist Experience](#)**

Catalog Number: 7100

*Sandy Petrey (SUNY Stony Brook)*

*Half course (spring term). F., 12–2. EXAM GROUP: 5, 6*

Studies 19th century masterworks by Balzac, Stendhal, and Flaubert, with emphasis on current debates concerning the scope of realism in history and theory. Readings will include novels, and other fictional genres in the context of canon formation.

*Note:* Conducted in English or French, in consensus with students enrolled.

**[French 266. France in the 1930's: Literature, History, Film](#)**

Catalog Number: 4622

*Susan R. Suleiman, Tom Conley, and Stanley Hoffmann*

*Half course (fall term). W., 2:30–5, plus evening film screenings to be arranged. EXAM GROUP: 7, 8, 9*

It has been called a “low dishonest decade,” but it was also one of high passions and idealism, preparing both postwar innovations and postwar conflicts. This seminar will discuss the decade from multiple perspectives, with focus on the colonial experience, the Popular Front, the Spanish Civil War, the coming of World War II, and other moments of collective significance as



manifested in cultural production. Works by Malraux, Céline, Drieu, Bataille, Renoir, Buñuel, and others.

*Note:* Open to qualified juniors and seniors.

**French 270. War and Memory: Representations of World War II in Postwar French Literature, History and Film**

Catalog Number: 7428

*Susan R. Suleiman*

*Half course (spring term). M., 3–5:30. EXAM GROUP: 8, 9*

Discussion of selected novels, essays, autobiographical and historical writings, and films about wartime experiences, as seen from immediate and later postwar perspectives. Topics include trauma, testimony, and the relations between history and its representations. Works by Sartre, Céline, Simon, Perec, Duras, Modiano, Delbo, Ophuls, and others.

*Note:* Expected to be omitted in 2000–01. Open to qualified juniors and seniors.

**French 271r. French Literature: Seminar**

Catalog Number: 4939

*Abby Zanger*

*Half course (spring term). F., 2–5. EXAM GROUP: 7, 8, 9*

Topic for 1999–00. Women Going Public: Scudéry, Sévigné, Lafayette. The 17th-century female intellectual voice studied via the example of three writers. Topics include the culture of the salon, career strategies, notorious women, questions of genre, scribal culture, collaborative writing, female authorship, the relation of women to print culture and an emerging public sphere, and how modern critics have appropriated the early modern female voice.

*Note:* Conducted in English.

**French 286r. French Literature: Seminar**

Catalog Number: 1731

*Susan R. Suleiman and Tom Conley*

*Half course (fall term). Th., 4–6.*

Topic for 1999-00: Approaches to the Nineteenth Century: Critical Appraisals and Views. Like French 159, this seminar will be taught serially by visiting professors Jacques Rancière, Lucette Finas, and Alain Pagès. It will focus on two main questions: how has the "nineteenth century" been constructed through literary history and critical assessment of its canon? What is the relation between history and literature in the 19th century? Reading and discussion of selected primary and secondary texts, from Balzac to Zola and from Marxism to new historicism.

*Note:* Conducted in French. Open to qualified juniors and seniors.

**[French 288r. French Literature: Seminar]**

Catalog Number: 2560

*Christie McDonald*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 15, 16*

Topic for 2000-01: The Anxiety of Change: Rereading Enlightenment. Analysis of the crossover between political, social, philosophical and literary discourses with particular focus on shifts in the relation between the public and private domains. 18th-century readings include Rousseau, Diderot, Sade, De Staël; 20th-century discussions span existentialist thought to post-



structuralism and the contemporary debate about Enlightenment in Europe and the United States.  
*Note:* Expected to be given in 2000–01. Conducted in French.

**[French 289r. French African Literature: Seminar]**

Catalog Number: 4502

*Samba Diop*

*Half course (fall term). Hours to be arranged.*

Topic for 2000-01: Visions of Africa. From 1830-1960, French writers, travelers, colonial administrators, and poets visited Africa and represented it in their accounts, placing Africa in the "imaginaire" of French culture: Rimbaud (Abyssinia), Gide (Congo), Flaubert (Tunisia), and less known writers including A. Londres, H. Crouzat, J.-F. Didelot. Conversely, we will read works by L. Senghor, H. Bâ, B. Dadié, etc. studying African perceptions of French culture and mores.

*Note:* Expected to be given in 2000–01. Conducted in French.

***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

*Tom Conley 1908, Samba Diop 3079, Judith Frommer 7066 (on leave 1999-00), Virginie Greene 1007, Alice Jardine 7457, Barbara E. Johnson 7626, Christie McDonald 1160, Susan R. Suleiman 7234, and Abby Zanger 2338*

**\*French 330. Direction of Doctoral Dissertations**

Catalog Number: 7843

*Tom Conley 1908, Samba Diop 3079, Virginie Greene 1007, Alice Jardine 7457, Barbara E. Johnson 7626, Christie McDonald 1160, Naomi Schor 1909 (on leave fall term), Susan R. Suleiman 7234, and Abby Zanger 2338*

***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 auditors are allowed in lettered language courses. 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.

***Primarily for Undergraduates***



### **Italian A. Elementary Italian**

Catalog Number: 4309

*Elvira G. DiFabio and staff*

*Full course (indivisible). M. through F., and laboratory. Sections at 9, 10, 11, 12, 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 semester, with additional emphasis in the spring semester on reading and writing. Introduction to Italian literature through short stories in the spring semester. Course materials include complete software program for Italian grammar and vocabulary.

*Note:* Conducted largely 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.

### **Italian Ax. Reading Italian**

Catalog Number: 4015

*Elvira G. DiFabio and staff*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

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.

### **\*Italian Bab. Intensive Elementary Italian: Special Course**

Catalog Number: 3065 Enrollment: Limited to 15

*Elvira G. DiFabio and staff*

*Full course (fall term; repeated spring term). Section I: M. through F., at 10, Tu., Th., at 9; Section II: M. through F., at 12, Tu., Th., at 11. EXAM GROUP: 3, 11, 12*

A complete first-year course in one semester 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.

Conducted largely in Italian. Before the first day of classes interested students should call 495-5478 for sign-up information. Students who complete Italian Bab in the fall with a grade of B+ or above may continue with Italian Cb in the spring.

*Prerequisite:* An advanced knowledge of at least one foreign language, preferably a modern Romance language.

### **Italian Ca. Intermediate Italian I**

Catalog Number: 3217

*Elvira G. DiFabio and staff*

*Half course (fall term). Section I Tu., Th., 1–2:30 and one hour to be arranged; Section II Tu., Th., 2:30–4 and one hour to be arranged; Section III M., W., F., 12–1 and one hour to be arranged. EXAM GROUP: 15, 16*

Students are introduced to contemporary Italian culture with notions of history, geography, art, music, and literature, while developing the four basic communication skills. Includes a grammar



review. Special audiovisual materials are used for insight into modern Italian culture and for developing the ability to understand Italian in many different social and intellectual situations. *Note:* Conducted in Italian. Open to students who have passed Italian A, Italian Bab or, for initial placement, to students who achieve a placement score of 450-599 on the SAT II test or the Harvard Placement test, or permission of the instructor.

### **Italian Cb. Intermediate Italian II**

Catalog Number: 6805

*Elvira G. DiFabio and staff*

*Half course (spring term). Section I Tu., Th., 1-2:30 and one hour to be arranged; Section II Tu., Th., 2:30-4 and one hour to be arranged; M., W., F., 12-1 and one hour to be arranged. EXAM GROUP: 15, 16*

A logical continuation of Italian Ca, emphasizes developing fluent reading skills with two novels and a play by 20th century authors. Sophisticated written communication will be stressed through regular reaction papers and critical essays, and oral expression will be practiced with a performance of a theatrical work at the end of the semester. Computer-assisted activities reinforce vocabulary and grammar review.

*Note:* Conducted in Italian. Open to students whose placement score indicates a more advanced course, or as a continuation of Italian Ca. Also open to students who have earned a grade of B+ or above in Italian Bab.

### **Italian 35. Upper-Level Italian I: Parliamo dell'Italia**

Catalog Number: 2659

*Elvira G. DiFabio and staff*

*Half course (fall term). Section I M., W., F., at 12; Section II M., W., F., at 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 reading. Practice consists of discussions, oral presentations, and compositions.

*Note:* Conducted in Italian.

*Prerequisite:* Italian Cb, a placement score of 630 or above on the SAT II test or the Harvard Placement test, or permission of the instructor.

### **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. EXAM GROUP: 5*

Students read three novels and view films on which they are based. The course aims at achieving proficiency in speaking and writing through vocabulary development and extension of control of higher-level syntactical patterns. Audiotapes and videotapes are used to sharpen oral/aural skills. Practice through class presentations, compositions, and discussions.

*Note:* Conducted in Italian.

*Prerequisite:* Italian 35 or permission of instructor.



### **Italian 44. Advanced Italian: Effetto Commedia**

Catalog Number: 5776

*Elvira G. DiFabio*

*Half course (fall term). M., W., 1–2:30 and film screenings Th. at 4 pm. EXAM GROUP: 6, 7*  
Comedy Italian style in cinema (from Totò to Benigni) and theater (Machiavelli, Goldoni, DeFilippo). 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 the instructor.

*Prerequisite:* Italian 36 or permission of instructor.

### **[Italian 45. L'Italia e la cultura del commercio]**

Catalog Number: 3330

*Elvira G. DiFabio*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 5*

The study of the language and culture of Italian business with particular emphasis on historical, social, and political “portraits.” For students at an advanced level of Italian. Weekly writing assignments will help reinforce and refine grammatical structures.

*Note:* Expected to be given in 2000–01. Conducted in Italian. Open to students who have passed Italian 35 or with permission of the instructor.

### **Italian 48. Voices from Italy: Issues of Identity**

Catalog Number: 0178

*Elvira G. DiFabio*

*Half course (spring term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

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 popular music and films, news reports, and literary, historical and sociological texts. Frequent oral and written assignments. Grammar reviewed in context.

*Note:* Conducted in Italian.

*Prerequisite:* Italian Ca and 35 or permission of instructor.

### **Italian 50. Literary Translation**

Catalog Number: 5676

*Elvira G. DiFabio*

*Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Practice in translation from English to Italian, and occasionally from Italian to English, using sample texts from literature, history, and philosophy. Introduction to a variety of styles, literary devices, semantic and cultural distinctions, and structural differences between Italian and English.

*Note:* Conducted in Italian. Open to students who have passed Italian 44 or by permission of the instructor. Open to graduate students with permission of the instructor.

### **[Italian 51. The Structure and Sounds of Italian]**

Catalog Number: 1306

*Elvira G. DiFabio*



*Half course (spring term). Hours to be arranged.*

Advanced grammar course introducing notions of phonology, morphology and syntax, including the analysis of frequently occurring linguistic phenomena especially within the verb paradigm. Includes modules on the history of the language, the dialectics and comparative Romance linguistics.

*Note:* Expected to be given in 2000–01. Conducted in Italian or English. Open to qualified undergraduates and to graduate students.

*Prerequisite:* Open to students who have passed at least Italian 36, or by permission of the instructor.

### **\*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 (formerly \*Italian 98r). The Italian Tutorial**

Catalog Number: 1795

*Laura Benedetti and staff*

*Half course (fall term). Hours to be arranged.*

*Note:* Conducted in Italian. Required of concentrators in their sophomore or junior year.

### **\*Italian 99. Tutorial — Senior Year**

Catalog Number: 7840

*Elvira G. DiFabio and staff*

*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 consent of the Undergraduate Advisor. 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 Professor Benedetti.

### ***Cross-listed Courses***

### **Literature and Arts A-26. Dante's *Divine Comedy* and Its World**

#### ***For Undergraduates and Graduates***

#### **[Italian 101. Aspects of Italian Linguistics]**

Catalog Number: 3173

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

An examination of some of the main varieties of modern Italian, with particular reference to Popular Italian. Some of the questions of Italian grammar, in particular Intonation and Stress (for phonology); Suffixation and Alteration (for morphology); Infinitival Constructions (for syntax).

*Note:* Expected to be given in 2000–01. Conducted in English.



**[Italian 120a. Dante's *Inferno*]**

Catalog Number: 1186

*Lino Pertile*

*Half course (fall term). Hours to be arranged.*

Introduces students to Dante's *Divine Comedy*, an Italian poem that for centuries has occupied a special position in the cultural life of the West, continues today to be a source of inspiration for artists, and is an object of intense interest for scholars all over the world. While concentrating on the close study of the *Inferno* against the background of medieval Italy, the course attempts to account for the poem's enduring presence in our time.

*Note:* Expected to be given in 2000–01. Conducted in English.

**[Italian 120b. Dante's *Purgatorio*]**

Catalog Number: 2558

*Lino Pertile*

*Half course (spring term). Hours to be arranged.*

Dante's *Divina Commedia*. A continuation of Italian 120a.

*Note:* Expected to be given in 2000–01. Conducted in English.

**[Italian 120c. Dante's *Paradiso*]**

Catalog Number: 1084

*Lino Pertile*

*Half course (fall term). Hours to be arranged.*

Dante's *Divina Commedia*. A continuation of 120b.

*Note:* Expected to be given in 2001–02. Conducted in English.

**Italian 123. Semantics of Desire: The Erotic Theme in Dante's Poetry**

Catalog Number: 4168

*Lino Pertile*

*Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17*

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 Todis *Laude*.

*Note:* Conducted in Italian. Reading knowledge of Italian essential.

**[Italian 135. Boccaccio]**

Catalog Number: 4833

*Franco Fido*

*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 2000–01. Conducted in Italian.

**Italian 155 (formerly Italian 255). Machiavelli and Guicciardini**

Catalog Number: 2717

*Franco Fido*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Niccolò Machiavelli and Francesco Guicciardini - the greatest political thinker and the greatest historian of the sixteenth century in Europe - were among the sharpest witnesses of the climax and decline of Renaissance civilization. Their works and ideas will be studied and discussed in the context of Italian history and culture of early Cinquecento. Readings will include *Il Principe*, *I discorsi*, *I ricordi*, and excerpts from the *Storia d'Italia*.

*Note:* Expected to be omitted in 2000–01. Conducted in English.

**Italian 157 (formerly Italian 126). Love, Friendship, and War: The Portrayal of Women in the Renaissance Epic**

Catalog Number: 5090

*Laura Benedetti*

*Half course (fall term). M., 1–3:30. EXAM GROUP: 6, 7, 8*

Examines the treatment of female characters in Italian Renaissance epic poems such as Boiardo's *Orlando Innamorato*, Ariosto's *Orlando Furioso* and Tasso's *Gerusalemme Liberata*. The discussion will focus on related issues of gender, representation and the role of women in Renaissance society.

*Note:* Expected to be omitted in 2000–01. Conducted in English.

**[Italian 180. Pirandello's Masks]**

Catalog Number: 9053

*Laura Benedetti*

*Half course (spring term). Hours to be arranged.*

Luigi Pirandello was a versatile and highly innovative author, whose revolutionary notions of time, space and character development would have a long-lasting influence on the 20th century European stage. His novels and short stories, traditionally less familiar to the international public, present equally challenging and original features. The course explores both aspects of Pirandello's production, with special emphasis on the relationship between the different genres in their specific historical and cultural contexts.

*Note:* Expected to be given in 2001–02. Conducted in Italian.

**[Italian 189. Passion and Resistance: 20th-Century Italian Women]**

Catalog Number: 2652

*Laura Benedetti*

*Half course (spring term). Hours to be arranged.*

This course will examine how forces at play in Italian history and culture shaped the image of women throughout the century, and how women writers participated in and reacted to these representations. Texts from Aleramo, Banti, Fallaci, Morante and others; films by Scola and Pasolini.

*Note:* Expected to be given in 2001–02. Readings and discussions in English.

**Italian 193. Literature and Fascism**

Catalog Number: 0981

*Lino Pertile*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*



To what extent did Italian culture contribute to, and how was it affected by, the rise and consolidation of Fascism? How did Italian writers, artists, and intellectuals react and adapt to the Fascist regime? This course aims at providing an understanding of the culture of the 1920's and 1930's while focusing on some major literary works of the period.

*Note:* Conducted in English.

*Prerequisite:* Reading knowledge of Italian.

**[Italian 195. The Post War Novel]**

Catalog Number: 1502

*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 will include Cesare Pavese, Italo Calvino, Giuseppe Tomasi di Lampedusa, Leonardo Sciascia, Dacia Maraini. The focus of the course will be on the changing relationship between writer and society in the past fifty years of Italian history.

*Note:* Expected to be given in 2000–01. Conducted in English.

*Prerequisite:* Reading knowledge of Italian required.

**Italian 198. Italo Calvino: The Poetics of Lightness**

Catalog Number: 0358

*Laura Benedetti*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Nonexistent knights, cloven viscounts, cosmicomics, the geography of the city and the universe: the production of the most experimental Italian writer of the 20th century engages in a dialogue with literary tradition, investigates the links between literature and science, and reflects on the mechanisms of textual creation and consumption. In the first of the Norton lectures that he was going to deliver at Harvard in 1985, Calvino described his working method as one involving “the subtraction of weight.” The course explores the author’s “poetics of lightness” through a thorough analysis of his work, from the war novel *The Path to the Spider’s Nest* (1947) to the textual adventures of *If in a Winter Night a Traveler* (1979).

*Note:* Expected to be omitted in 2000–01. Conducted in English. Readings available both in the original and in translation.

***Cross-listed Courses***

**Linguistics 110. Introduction to Linguistics**

**[Linguistics 124. The Origins of the Romance Languages]**

**\*Visual and Environmental Studies 152br. Italian Cinema**

***Primarily for Graduates***

**[Italian 220. Poesia del '200]**

Catalog Number: 0429

*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 will be devoted mainly to reading and discussion of the most important texts of the period.

*Note:* Expected to be given in 2000–01. Conducted in Italian.

### **Italian 230. Petrarca and the Divided Self**

Catalog Number: 5548

*Lino Pertile*

*Half course (spring term). Th., 1:30–4. EXAM GROUP: 15, 16, 17*

Studies Petrarch's vernacular poetry in the cultural context of Trecento Italy with particular reference to Dante and the *dolce stil nuovo*. The stylistic and linguistic features of Petrarch's *Rime* are analyzed in depth while their philosophical aspects are related to some of Petrarch's Latin works, especially the *Secretum*.

*Note:* Expected to be omitted in 2000–01. Competence in the Italian language is required.

### **[Italian 235 (formerly 135). Boccaccio]**

Catalog Number: 6488

*Franco Fido*

*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 2000–01. Conducted in Italian.

### **[Italian 256. Themes and Dreams of the Italian Renaissance]**

Catalog Number: 2749

*Laura Benedetti*

*Half course (fall term). Hours to be arranged.*

The course will examine topics which were the subject of intense debate during the Renaissance: the rediscovery of Aristotle's *Poetics*, the role of the intellectual, the *questione della lingua*, and the notion of woman. Texts from Castiglione, Bembo, Tasso, Fonte, Marinelli and others.

*Note:* Expected to be given in 2001–02. Discussion in either Italian or English.

*Prerequisite:* Reading knowledge of Italian necessary.

### **Italian 259. Torquato Tasso and the Age of Crisis**

Catalog Number: 1549

*Laura Benedetti*

*Half course (spring term). Tu., 1:30–4. EXAM GROUP: 15, 16, 17*

The last great author of the Italian Renaissance lived in a time of cultural and spiritual turmoil, when religious concerns and critical considerations were seeking to impose strict limitations on artistic freedom. While focusing on Tasso's masterpiece *Gerusalemme liberata*, the course also explores Tasso's theory of the epic and his late, desperate attempt to provide with the *Gerusalemme conquistata* a new kind of poem, in line with Catholic orthodoxy, Aristotelian principles and, ultimately, with the poet's own conscience.

*Note:* Expected to be omitted in 2000–01. Conducted in Italian.

### **Italian 270r. Italian Literature Seminar: Manzoni e il romanzo italiano moderno**

Catalog Number: 0694



*Franco Fido*

*Half course (fall term). W., 2:30–5. EXAM GROUP: 7, 8, 9*

Topic for 2000-01: Alessandro Manzoni's works from his early poetry and theater to his novel *Promessi Sposi* in the context of 19th-century literary discussions on Romanticism, the novel, and the question of Italian language.

*Note:* Expected to be omitted in 2000–01. Conducted in Italian.

**[Italian 281r. Italian Literature: Seminar]**

Catalog Number: 1140

*Franco Fido*

*Half course (spring term). Hours to be arranged.*

Topic for 2000–01: The Decadentismo. the literary movements and figures between the late 19th century and the advent of Fascism, from D'Annunzio, Fogazzaro and Pascoli to Tozzi, the Crepuscolari and the Futuristi, from the "Liberty" reviews of the late 19th century to *La Voce* and *La Ronda*. Critical focus on the irrational bent common to most of these authors, and on their wavering between provincialism and cosmopolitanism.

*Note:* Expected to be given in 2000–01.

**[Italian 287r. Italian Literature: Seminar]**

Catalog Number: 3288

*Lino Pertile*

*Half course (fall term). Hours to be arranged.*

Topic for 2000-2001: Poets of Postwar Italy. Seminar will focus on the theme of commitment versus withdrawal in the poetry of the 1950's and 1960's. Major poets considered will include Montale, Pasolini, and Zanzotto.

*Note:* Expected to be given in 2000–01. 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

*Laura Benedetti 1327, Franco Fido 2446 (on leave spring term), and Lino Pertile 3416*

**\*Italian 330. Direction of Doctoral Dissertations**

Catalog Number: 3679

*Laura Benedetti 1327, Dante Della Terza 1461, Franco Fido 2446 (on leave spring term), and Lino Pertile 3416*

***Portuguese***

The foreign language requirement may be met by passing a special Portuguese Examination set by the Department of Romance Languages and Literatures. The examination will be given by Dr. Patricia Sobral on Friday, September 17 at 1pm in Boylston Hall 324.



***Primarily for Undergraduates***

**Portuguese A. Elementary Portuguese**

Catalog Number: 7130

*Patricia Sobral and staff*

*Full course (indivisible). M. through F., at 12. EXAM GROUP: 5, 14*

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; not open to auditors.

**Portuguese Ac. Elementary Portuguese for Spanish Speakers**

Catalog Number: 0430

*Patricia Sobral and staff*

*Half course (fall term). Session I: M., W., F., at 12; Session II: M., W., F., at 1. EXAM GROUP: 5*

An introductory language course designed for students with native or near-native fluency in Spanish. 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.

*Prerequisite:* Native or near-native fluency in Spanish.

**Portuguese Ad. Elementary Portuguese for Spanish Speakers**

Catalog Number: 1315

*Patricia Sobral and staff*

*Half course (spring term). Session I: M., W., F. at 12; Session II: M., W., F., at 1. EXAM GROUP: 5*

A continuation of Portuguese Ac. By the end of the second semester, students should be able to communicate easily with native speakers and be acquainted with basic elements of Luso-Brazilian culture.

*Prerequisite:* Portuguese Ac or permission of instructor.

**Portuguese Ba. Introduction to Portuguese**

Catalog Number: 0514

*Patricia Sobral and staff*

*Half course (spring term). Section I: M., W., 3–5; Section II: M., W., 5–7. EXAM GROUP: 7, 8*

A basic introductory course for students who can devote only one semester to the study of Portuguese. Teaches fundamental communication skills—understanding, speaking, reading and writing—but does not offer a complete study of grammar.

*Note:* Intended primarily for seniors and graduate students.



### **Portuguese Ca. Intermediate Portuguese I**

Catalog Number: 7692

*Patricia Sobral and staff*

*Half course (fall term). Tu., Th., 11:30–1, plus an additional hour to be arranged. EXAM GROUP: 13, 14*

Develops facility in oral expression, writing, and reading. Compositions, class discussions, and oral reports based on modern short stories and newspaper and magazine articles. Grammar review, exercises in vocabulary building.

*Note:* Conducted in Portuguese. Especially recommended for those students who wish to improve their ability to speak and write Portuguese. May not be taken Pass/Fail.

*Prerequisite:* Portuguese A or permission of instructor.

### **Portuguese Cb. Intermediate Portuguese II**

Catalog Number: 2799

*Patricia Sobral and staff*

*Half course (spring term). Tu., Th., 11:30–1, plus an additional hour to be arranged. EXAM GROUP: 13, 14*

A continuation of Portuguese Ca.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail.

*Prerequisite:* Portuguese Ca or permission of instructor.

### **Portuguese 37. Brasil hoje: Contemporary Brazilian Culture through Media**

Catalog Number: 5024

*Patricia Sobral*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An exploration of contemporary Brazil as presented in the Portuguese-language press, television, literature, and film. Students will read current issues of newspapers and magazines and see videotapes of Brazilian television and films, covering a broad spectrum of viewpoints and interests. The study of various aspects of life in Brazil today, such as education, family structures, and politics. A systematic grammar review is included.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail, but may be taken SAT/UNS by GSAS students.

*Prerequisite:* Portuguese Ca/Cb or permission of the instructor.

### **Portuguese 38. Images of Brazil: Contemporary Brazilian Cinema**

Catalog Number: 8893

*Patricia Sobral*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An exploration of the various images of Brazilian culture and society as seen and created within Brazil as well as abroad. This course will enable students to investigate current trends in contemporary Brazil through the eye of the camera. Students will watch and read the latest film and written materials produced in Brazil. Topics discussed include ethnic and national identity, race relations, and gender representation. A systematic grammar review is included.

*Note:* Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Uns by GSAS students.

*Prerequisite:* Portuguese Ca/Cb or permission of the instructor.



**Portuguese 51. Journey Through Brazil: Advanced Writing and Reading in Portuguese**

Catalog Number: 0863

*Patricia Sobral and Nelida Pinon*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An advanced course in Portuguese that takes the student on a journey through Brazil as seen through the eyes of several contemporary Brazilian writers and thinkers. The course will also look at views of Brazil from the outside, i.e., Brazilians writing about their country and experiences from abroad. The Brazilian writer-in-residence, Nelida Pinon, will visit the class during her stay at Harvard and engage students in a dialogue about Brazilian society and culture. Class materials will include novels, short stories, essays, interviews and other texts drawn from journalism and anthropology. Special emphasis will be paid to stylistic variations, lexical nuances, and complex grammatical structures. Frequent written and oral assignments.

**\*Portuguese 91r. Supervised Reading and Research**

Catalog Number: 5589

*Joaquim-Francisco Coelho and staff*

*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

*Joaquim-Francisco Coelho and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Tutorial for sophomore concentrators.

**\*Portuguese 98r. Tutorial — Junior Year**

Catalog Number: 8667

*Joaquim-Francisco Coelho and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Optional tutorial for one term of junior year, for concentrators who wish to pursue individual interests. To enroll see Professor Coelho.

**\*Portuguese 99. Tutorial — Senior Year**

Catalog Number: 8753

*Joaquim-Francisco Coelho and staff*

*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 consent of Professor Coelho. 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 Professor Coelho.

*For Undergraduates and Graduates*

**[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).

*Note:* Expected to be given in 2000–01.

**[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 2000–01.

**[Portuguese 122a. Introduction to the Literature of Portugal I]**

Catalog Number: 2943

*Joaquim-Francisco Coelho*

*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*

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 2000–01.

*Prerequisite:* Reading knowledge of Portuguese.

**Portuguese 122b. Introduction to the Literature of Portugal II**

Catalog Number: 3654

*Joaquim-Francisco Coelho*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

A continuation of Portuguese 122a.

*Note:* Expected to be omitted in 2000–01.

**Portuguese 140. Machado de Assis and the Excellent Writings of a Young Girl**

Catalog Number: 3449

*Roberto Schwarz*

*Half course (fall term). Th., 4–6. EXAM GROUP: 18*

*Dom Casmurro* is probably the most elaborate novel in Brazilian literature. It is also the enactment of the specific historical difficulties of the Brazilian elite. On a simpler level, though still powerfully, *The Diary of "Helena Morley"*--a girl in her teens-- deals with the same set of social relations. A parallel between the two books leads into decisive questions in Brazilian society and in literary criticism.

*Note:* Conducted in Portuguese.

***Primarily for Graduates***



**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, and the course is taught in Portuguese.

*Note:* Expected to be omitted in 2000–01.

**Portuguese 219br. Major Poems of the Portuguese Language II**

Catalog Number: 3242

*Joaquim-Francisco Coelho*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

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.

*Note:* Expected to be omitted in 2000–01. Taught in Portuguese.

**[Portuguese 222. Introduction to Camões]**

Catalog Number: 2995

*Joaquim-Francisco Coelho*

*Half course (fall term). Hours to be arranged.*

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:* Expected to be given in 2000–01. Taught in Portuguese.

**[Portuguese 227. Fernando Pessoa]**

Catalog Number: 7375

*Joaquim-Francisco Coelho*

*Half course (spring 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 2001–02. Conducted in Portuguese and English.

**Portuguese 242. Brazil Reaches Out and Looks In: Machado de Assis.**

Catalog Number: 1748

*Roberto Schwarz*

*Half course (fall term). Tu., 4–6. EXAM GROUP: 18*

Brazil's 19th century appropriations of European liberalism, scientific ideas; liberalism, and literary forms.

*Note:* Conducted in English.

***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  
*Joaquim-Francisco Coelho 7715*

**\*Portuguese 321. Literature of Brazil: Supervised Reading and Research**

Catalog Number: 5933  
*Joaquim-Francisco Coelho 7715*

**\*Portuguese 330. Direction of Doctoral Dissertations**

Catalog Number: 4072  
*Joaquim-Francisco Coelho 7715, Luis Fernández-Cifuentes 2091, Mary Gaylord 2632 (on leave 1999-00), Francisco Márquez 5064, and Doris Sommer 2744*

***Romance Linguistics***

See also courses in Linguistics.

***Primarily for Graduates***

**[Romance Linguistics 200. Theory and Practice of Language Teaching](#)**

Catalog Number: 2825

*Judith Frommer*

*Half course (fall term). W., 5–7 p.m. EXAM GROUP: 9*

An exploration of the multiple aspects of language teaching, including past and present methodologies; the nature of language learning in relation to listening, speaking, reading, and writing; the teaching of literature; intercultural understanding; computer-assisted instruction and technology; and testing. Applicable to any language.

*Note:* Open to qualified undergraduates. Offered jointly with the Graduate School of Education as H-750.

***Cross-listed Courses***

**[Linguistics 110. Introduction to Linguistics](#)**

***Romance Studies***

***For Undergraduates and Graduates***

**[Romance Studies 91r. Supervised Reading and Research](#)**

Catalog Number: 8210

*Bradley S. Epps 2880 and members of the Department*

*Half course (fall term). Hours to be arranged.*

Tutorial supervision of research on subjects not treated in regular courses.

**[Romance Studies 99. Tutorial–Senior Year](#)**

Catalog Number: 1067



*Bradley S. Epps and members of the Department*

*Full course. Hours to be arranged.*

For honors seniors writing a thesis.

*Note:* The first term may be counted as a half course only with the consent of the Undergraduate Advisor in Romance Studies. 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 the Undergraduate Advisor in Romance Studies.

### **Romance Studies 152. Life Writing: Models of Subjectivity**

Catalog Number: 9942

*Christie McDonald and Bruno G. Bosteels*

*Half course (fall term). W., 12–2. EXAM GROUP: 6, 7*

How is subjectivity at work in the writing of the self? How and why do questions of the subject return today? How to think of the representation of the self in the wake of the crisis of subjectivity? Which models, both theoretical and practical, are available? We will discuss influences of religion, philosophy, psychoanalysis, linguistics, literature. Issues of humanism, universalism, and particularism; autobiography and family romance; the emergence and self-destitution of the subject. Texts range from late antiquity to modernity, in Europe and Latin America.

*Note:* Undergraduate concentrators in French, Spanish, or Romance Studies wishing to obtain credit are required to read the texts in the original language(s). Texts available in both the original version and in translation.

*Prerequisite:* Good reading knowledge of either French or Spanish.

### **[Romance Studies 165. Mapping Modernity]**

Catalog Number: 6870

*Tom Conley 1908 and Doris Sommer 2744*

*Half course (fall term). Hours to be arranged.*

Studies how literature and mapping in Latin America and France (1830–1930) create subjectivity and nationhood. Treats novels, theory, cinema.

*Note:* Expected to be given in 2001–02.

### ***Cross-listed Courses***

### **[Women’s Studies 134. Women’s Writing and Film in Latin America and the Caribbean]**

#### ***Spanish***

The term “placement score” or “placement test” below and in the various course descriptions refers to the Spanish placement test given during Freshman Week for freshmen and usually on registration day for returning students. All students with some previous Spanish in secondary school are required to take the Placement Test.

Students who receive a grade of 4 or 5 in the College Board Advanced Placement Examinations in Spanish are granted Advanced Placement in Spanish and may take Spanish 44 with permission



of the instructor or (if recommended) middle-group courses in Spanish and Hispanic-American literature. Some Advanced Placement students may be advised to take a Foreign Cultures course in a Hispanic field as their first college course in literature in Spanish. For details, see the pamphlet *Advanced Standing at Harvard College* or apply to the Director of the Program of Advanced Standing.

No auditors are allowed in lettered language courses. No one may enter Spanish A after the eighth meeting, Spanish Bab after the first meeting, or a C-level course after the sixth meeting.

***Primarily for Undergraduates***

**Spanish A. Elementary Spanish**

Catalog Number: 4684

*Johanna Damgaard Liander and staff*

*Full course (indivisible). Fall: Five meetings a week (M. through F.): Section I at 9; Section II at 10; Section III at 11; Section IV at 1; Section V at 2. Spring: M., W., F., Section I at 9; Section II at 10; Section III at 11; Section IV at 1; Section V at 2. EXAM GROUP: 10*

A complete basic Spanish course for students with little or no knowledge of Spanish. Primary aim is for students to achieve a satisfactory command of the language. Emphasis on speaking the language, and, spring term, more emphasis on reading and writing, introducing Hispanic culture and civilization through selected articles from the Spanish and Latin American press, readings by Borges, García Márquez, Pablo Neruda, and others, and use of computer, video, and film materials.

*Note:* Conducted largely in Spanish. May not be taken Pass/Fail. Students remain in the same section the entire year. Students whose placement score does not entitle them to enter a more advanced course are assigned to Spanish A.

**Spanish Ax. Reading Spanish**

Catalog Number: 5318

*Johanna Damgaard Liander and staff*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

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.

**\*Spanish Bab. Intensive Elementary Spanish: Special Course**

Catalog Number: 5577 Enrollment: Limited to 15 students per section.

*Johanna Damgaard Liander and staff*

*Full course (spring term). Section I: M. through F., at 9; Tu., Th., at 10; Section II: M. through F., at 11; Tu., Th., at 12. EXAM GROUP: 2, 4, 12*

For students who have had no previous formal or informal training in Spanish. Emphasis on communication skills. Language instruction supplemented by cultural and literary readings, film, computer, and video materials.

*Note:* Conducted in Spanish. May not be used to fulfill the language requirement and may not be taken Pass/Fail. Interested students must see Dr. Liander for an interview before or during fall



reading period.

*Prerequisite:* A knowledge of at least one foreign language, preferably a modern Romance language. Not open to freshmen.

### **Spanish Ca. Intermediate Spanish I**

Catalog Number: 5914

*Nina C. de W. Ingrao and staff*

*Half course (fall term). M., W., F., Section I at 9; Section II at 10; Section III at 11; Section IV at 1. EXAM GROUP: 10*

For students with an elementary knowledge of Spanish who wish to improve their mastery of the language. Emphasis is placed on developing oral skills, as well as reading and writing. Carefully selected readings and related activities respond to a wide variety of interests: current events and issues as well as short stories by Cervantes, Borges, Cortázar, Rulfo, Matute, Isabel Allende. At the end of the Ca-Cb sequence the student 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.

*Prerequisite:* Open to students who have passed Spanish A, or who have a placement score of 500 on the SAT II test or on the Harvard Placement Test or 3 years of Spanish in high school, or by permission of the instructor.

### **Spanish Cb. Intermediate Spanish II**

Catalog Number: 6874

*Nina C. de W. Ingrao and staff*

*Half course (spring term). M., W., F., Section I at 9; Section II at 10; Section III at 11; Section IV at 1. EXAM GROUP: 10*

Emphasis on oral communication, with continued practice in reading and writing. Class discussions focus on the Hispanic culture, art, and literature. Authors include Ana María Matute, Borges, García Márquez, Don Juan Manuel, Unamuno. Special listening materials used for insight into the 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.

*Prerequisite:* Spanish Ca or permission of the instructor.

### **Spanish 27. Spanish Oral Survival Course**

Catalog Number: 5358

*Nina C. de W. Ingrao and staff*

*Half course (fall term; repeated spring term). M. through F., Section I at 9; Section II at 12; Section III at 1. EXAM GROUP: 10*

To develop individual oral fluency in Spanish, while introducing students to attitudes, values, and cultural patterns of contemporary life in Spain and Latin America. Students are provided with continual opportunities to act out typical situations they would encounter in a Spanish-speaking environment. Although oral proficiency is not a prerequisite, course is best suited to students who already have a good grounding in the grammar of the language.



*Note:* Conducted in Spanish. May not be taken Pass/Fail.

*Prerequisite:* A placement score of 600-659 on the SAT II test or the Harvard Placement test, or permission of the instructor.

### **Spanish 30. Oral Expression: Temas de actualidad**

Catalog Number: 0479

*Nina C. de W. Ingrao (fall term) and staff*

*Half course (fall term; repeated spring term). M., W., F., Section I at 12; Section II at 1. EXAM GROUP: Fall: 5, 6*

Intended for students who want to learn to communicate in Spanish at a more sophisticated level. Discussions on topics of current interest are based on Spanish and Latin American films, literary selections, and the press.

*Note:* Conducted in Spanish. May not be taken Pass/Fail.

*Prerequisite:* Open to students who have taken Spanish 27, or by permission of the instructor.

### **Spanish 35. Upper-Level Spanish I: Cuatro países latinoamericanos**

Catalog Number: 7127

*Johanna Damgaard Liander and staff*

*Half course (fall term). M., W., F., Section I at 10; Section II at 11; Section III at 1. EXAM GROUP: 10*

Designed to develop fluency and accuracy in speaking, writing, and reading through a focus on contemporary Argentina, Columbia, Peru and Guatemala. Cultural, literary and historical readings, as well as films, will be studied and discussed. A review of selected grammar is also included.

*Note:* Conducted entirely in Spanish. May not be taken Pass/Fail.

*Prerequisite:* Spanish Cb, Spanish 27, or a placement score of 660 on the SAT II test or the Harvard Placement test, or permission of the instructor.

### **Spanish 36. Upper-Level Spanish II: Cultura urbana actual**

Catalog Number: 7095

*Johanna Damgaard Liander and staff*

*Half course (spring term). M., W., F., Section I at 10; Section II at 11; Section III at 1. EXAM GROUP: 10*

A language/culture course which will focus on contemporary life in the large cities of Spain, Cuba, Puerto Rico and Mexico. Through newspaper articles, music, literature and film we will examine the cultural and historical aspects particular to each of these areas as well as the elements of the modern Hispanic world that they share, with the ultimate goal of consolidating students' fluency and accuracy in speaking, writing and reading Spanish, while providing contact with the varied cultures and accents of Madrid, Barcelona, Havana, San Juan and Mexico City. Selective review of Spanish grammar, as well.

*Note:* Conducted entirely in Spanish. May not be taken Pass/Fail.

*Prerequisite:* Spanish 35, a placement score of 660 on the SAT II test or the Harvard Placement test, or permission of the instructor.

### **\*Spanish 41. Spanish for the Bilingual**

Catalog Number: 7690



*Nina C. de W. Ingrao*

*Half course (fall term). M., W., F., at 12 and an additional hour to be arranged. EXAM GROUP: 5*

For bilingual students needing practice in reading, writing, and grammar. Class discussions explore the common thread of the Hispanic culture among the people from all the Spanish speaking countries, including the Hispanics in the United States. Readings and discussions include Hispanic art and literature: Picasso, El Greco, Velázquez, Goya, Rivera, Siqueiros, Don Juan Manuel, Borges, García Márquez, Rulfo, Matute.

*Note:* Conducted in Spanish. May not be taken Pass/Fail.

### **Spanish 42. Advanced Spanish for the Bilingual**

Catalog Number: 1880

*Nina C. de W. Ingrao*

*Half course (spring term). M., W., F., at 12 and an additional hour to be arranged. EXAM GROUP: 5*

Designed for bilingual students with some formal training in Spanish grammar and writing. Aims at further developing and refining reading, writing, and oral skills in standard Spanish, including review of grammar as needed. Class discussions and written assignments are based on short stories, (Cervantes, Cortázar, Anderson Imbert, Vargas Llosa, Martí, García Márquez, Sábato, Carlos Fuentes), two short novels by Unamuno, as well as other writings covering relevant cultural issues, and films.

*Note:* Conducted in Spanish. May not be taken Pass/Fail.

*Prerequisite:* Spanish 41 or permission of the instructor.

### **Spanish 44. Contemporary Spanish Film**

Catalog Number: 5058 Enrollment: Limited to 20.

*Johanna Damgaard Liander*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

An advanced language/culture class that develops proficiency in all skills. Examines major films of Luis Buñuel, Carlos Saura, Luis García-Berlanga, and Pedro Almodóvar in historical, political, and social context. Class discussion also focuses on interviews, reviews, screenplays, and critical articles. Frequent written assignments and a thorough review of advanced grammar when necessary.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish. May not be taken Pass/Fail.

*Prerequisite:* Spanish 35 or 36, or a placement score of 710 on the SAT II test or the Harvard Placement test.

### **\*Spanish 45. El español de los negocios**

Catalog Number: 3731

*Nina C. de W. Ingrao (fall term) and staff*

*Half course (fall term; repeated spring term). M., W., 1–2:30, or M., W., 2:30–4. EXAM GROUP: Fall: 6, 7*

An advanced language course that aims to refine linguistic skills and develop a sophisticated style for the business, legal, and professional setting, with emphasis on vocabulary, syntax, and idiomatic usage. Attention to writing style in business letters, reports, and other documents. Participation in forming and operating a mock corporation. Discussion of articles and cultural



patterns relating to business and society in Hispanic countries and in the United States. The textbook covers fundamental business concepts, but no technical background is required.

*Note:* Conducted in Spanish. May not be taken Pass/Fail.

*Prerequisite:* Spanish 36, 42, or 44, or permission of the instructor.

### **Spanish 47. Latin American Cultures**

Catalog Number: 9591

*José Antonio Mazzotti*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

An advanced language and culture course focusing on readings, films and music from different Latin American regions. Concentrates on the diversity and coexistence of ethnic traditions within national spaces, while emphasizing oral and written expressions in Spanish.

*Note:* Conducted in Spanish. May not be taken pass/fail.

*Prerequisite:* Spanish 35 or 36, or a placement score of 710 on the SAT II test or the Harvard Placement test; or with permission of the instructor.

### **[Spanish 48. Perspectives on Mexico]**

Catalog Number: 5426 Enrollment: Limited to 20.

*Johanna Damgaard Liander*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 4*

An advanced language/culture class focusing on 20th-century Mexico as seen through the works of several Mexican women (Antonieta Rivas Mercado, Frida Kahlo, Elena Garro, Rosario Castellanos, Elena Poniatowska and María Novaro). Class materials will include interviews and other selections from the press, films, paintings, as well as literary and historical readings. Frequent written and oral assignments, and a thorough review of grammar, when necessary.

*Note:* Expected to be given in 2000–01. This course is not open to native speakers of Spanish. May not be taken pass/fail. Offered in alternate years.

### **[Spanish 51 (formerly Spanish 50). Theory and Practice of Translation]**

Catalog Number: 2331

*Francisco Márquez and staff*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 2*

Focus on translation from English to Spanish. Analyzes the dynamic constituents of the activity of translation and tries to define the concept of “transatology.” Some of the issues to be discussed are basic operating principles of translation, types of translation, technical procedures, and the theory of segmentation. Students are required to analyze existing translations as well as to translate other texts. Special attention given to literary texts.

*Note:* Expected to be given in 2000–01.

### **[Spanish 52. Problems in Spanish Composition, Syntax, and Phonetics]**

Catalog Number: 4750

*Francisco Márquez and staff*

*Half course (fall term). Hours to be arranged.*

A study of certain difficulties and peculiarities of the Spanish language, through the examination and discussion of literary texts in terms of usage and style. Students write free compositions, in



Spanish, about the texts selected or about subjects related thereto.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

### **\*Spanish 53. Taller de escritura**

Catalog Number: 2439

*Luis Fernández-Cifuentes and staff*

*Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

Aims to strengthen and develop the student's competence in written expression. Using short novels, short stories, essays and sample texts drawn from history, philosophy, and journalism, students learn to practice different styles in creative, argumentative, and analytical writings. Special emphasis will be placed on stylistic variations, lexical nuances, and complex grammatical structures. Students' work will be discussed in class and in private conferences.

*Note:* Conducted in Spanish.

*Prerequisite:* Open to students with a Harvard Placement score of 750, or by permission of the instructor. Recommended for concentrators and joint concentrators.

### **Spanish 54. Advanced Oral Expression**

Catalog Number: 3964

*Johanna Damgaard Liander and staff*

*Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9*

Designed for students interested in perfecting their oral Spanish in order to improve their comprehension, fluency, syntactic accuracy and pronunciation. The course's aims are the following: to fine-tune listening comprehension; to develop linguistic skills in presenting oneself, expressing emotion, debating, negotiating, counseling, persuading, etc.; and to improve pronunciation (practice of sounds, intonation and rhythm). Authentic materials in print or on audio or video cassettes will be used as models. In addition to practical, corrective work, students will participate in a theatrical production as a final class project.

*Note:* Conducted in Spanish.

*Prerequisite:* Open to students with a score of 750 on the Harvard Placement test or who have successfully completed a 40- or 50- level course in Spanish, or with the permission of the instructor. Recommended for concentrators and joint concentrators.

### **Spanish 70a (formerly Spanish 100a). Hispanic Literature: The Middle Ages**

Catalog Number: 1587

*Luis M. Girón Negrón*

*Half course (fall term). M., W., F., at 9. EXAM GROUP: 2*

Major texts and authors of Hispanic literature from the *Poem of the Cid* to the *Celestina*.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish. Required of concentrators in Spanish in their sophomore year.

### **[Spanish 70b (formerly Spanish 100b). Golden Age Literature]**

Catalog Number: 1229

*Francisco Márquez*

*Half course (fall term). Hours to be arranged.*

Introduction to the genres of poetry, drama and narrative prose (fiction and non-fiction) of Spain in the 16th and 17th centuries. Close reading of representative texts with attention to the



emerging literary languages of this period of national consolidation, global expansion, religious ferment, and tensions of a multicultural society. Explores themes of love, honor, identity, war, death, spirituality in works by Garcilaso, San Juan de la Cruz, Cervantes, Quevedo, Calderón, and others.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

**Spanish 71a (formerly Spanish 101a). Spanish American Literature from the Colony to Independence**

Catalog Number: 4319

*José Antonio Mazzotti*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Survey of readings from the chronicles of discovery and conquest, through several colonial classics, to the poetry and prose of Independence.

*Note:* Expected to be omitted in 2000–01. Required of concentrators in Hispanic literature and studies.

**Spanish 71b. Spanish American Literature of the 19th and 20th Centuries**

Catalog Number: 6700

*Ana María Amar Sánchez*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Survey of positivist and aestheticist responses to modernization, populist fiction, poetic vanguards, and the “Boom” in contemporary narrative.

**Spanish 90f. Latin American Cultural Studies: Critical Perspectives**

Catalog Number: 2001 Enrollment: Limited to 15.

*Bruno G. Bosteels*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

From concepts of dependency to cultural studies, a pivotal question persists: How to approach the cultural production of Latin America? How to relate symbolical goods to their historical environment? With case-studies in literature, film, and visual arts, this introductory seminar reviews the models available in Latin America to answer such questions. Relations of center and periphery, dominant and subaltern; progress, civilization, and transculturation; changing roles of the artist and intellectual; modes of realism both socialist and magical, critical and hybrid; local traditions of Marxism. Texts by Mariátegui, Frank, Dorfman, García Canclini, Freire, Rama, and others.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish or English, to be decided the first week.

**[Spanish 90g. Latin Quartet: Vallejo/Huidobro, Neruda/Paz]**

Catalog Number: 8744

*José Antonio Mazzotti*

*Half course (fall term). Hours to be arranged.*

Will examine the *oeuvres* of these four Latin American masters of the Spanish language and poetry during the 20th century. Special emphasis will be put on the dialectics between avant-garde poetics and the cultural traditions of the authors, as well as on the multiple readings that



their works offer from structuralist and post-structuralist approaches.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

**[Spanish 90h. Indigenismos]**

Catalog Number: 8790

*José Antonio Mazzotti*

*Half course (spring term). Hours to be arranged.*

An examination of so-called “indigenista” literature in Latin America, from its very beginnings in the 16th century to the poetry and novels of the 20th century. How were indigenous groups and ethnic nations characterized by the first Spanish colonizers and how have these images been transformed and used as tools for the modernizing nation-building process of the past century? How have Aztecs, Incas, Mayans and their descendants been re-accommodated into Latin American “imagined communities”? And how have these native peoples managed to undermine the dominating use of the letter by incorporating their own tonalities and cultural familiarities into the national literatures of their countries? This course will answer such questions through an interdisciplinary analysis of early chronicles and the works of José Carlos Mariátegui, Agustín Villoro, Guillermo Bonfil, Jorge Icaza, José María Arguedas and others.

*Note:* Expected to be given in 2001–02. Conducted in Spanish.

**Spanish 90i. Modernity and the Limits of Reason in the 20th Century Latin American Narrative: Fantastic and Detective Fiction**

Catalog Number: 5767

*Ana María Amar Sánchez*

*Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8*

The legacy of Poe. Two directions of modernity in the 20th century: detective and fantastic genres as discursive conventions that reflect on systems of logic in modernity while at the same time distancing themselves from them. Texts by Borges, Bioy Casares, Puig, Cortázar, Donoso, Rulfo.

*Note:* Conducted in Spanish.

**Spanish 90j. Lorca, Buñuel, Dalí**

Catalog Number: 0841

*Bradley S. Epps*

*Half course (spring term). M., W., 1–2:30.*

Examines the rise and fall of the avant-garde, and in particular surrealism, in and out of Spain, by focusing on the writings, films, and artworks of three of the most “international” Spanish artists of the twentieth century. Special attention paid to questions of gender and sexuality; tradition and revolution; commercialization and experimentation; scandal and conformity; war, memory, and imagination; travel and/or exile (in Mexico, France, and the United States).

*Note:* Conducted in Spanish. No prior knowledge of theory required.

**[Spanish 90k. Love Lyrics of the Hispanic Tradition ]**

Catalog Number: 3338 Enrollment: Limited to 15

*Mary Gaylord*

*Half course (fall term). Hours to be arranged.*

Major love poems of the Spanish language from the Middle Ages to the 20th century. Close



reading informed by issues such as changing definitions of love, relations between subject, object, gender roles, social and racial politics, tensions with the claims of honor and war, the metaphysics of love, the language of emotion. Authors include Garcilaso de la Vega, San Juan de la Cruz, Cervantes, Lope de Vega, Góngora, Quevedo, Sor Juana, Bécquer, Machado, Lorca, Salinas, Neruda.

*Note:* Expected to be given in 2000–01. Given in Spanish.

**\*Spanish 91r. Supervised Reading and Research**

Catalog Number: 1586

*José Antonio Mazzotti 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.

**\*Spanish 97. Theory in Praxis: Critical Controversies**

Catalog Number: 2315

*Luis Fernández-Cifuentes*

*Half course (fall term). Tu., Th., at 9. EXAM GROUP: 11*

Reading assignments for this course 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:* Required of all concentrators in their sophomore or junior year, but open to others.

Conducted in Spanish.

**\*Spanish 99. Tutorial — Senior Year**

Catalog Number: 5867

*José Antonio Mazzotti and members of the Department*

*Full course. Hours to be arranged.*

For honors seniors writing a thesis.

*Note:* The first term may be counted as a half course only with the consent of the Undergraduate Advisor in Spanish. 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 the Undergraduate Advisor in Spanish.

***Cross-listed Courses***

**Foreign Cultures 19. El poder y lo sagrado: figuras de un conflicto en las literaturas hispanicas**

[Literature and Arts A-24. Foundational Fictions: The National Romances of Latin America]

[Literature and Arts C-47. Language, Literature, and Power in the Early Modern Hispanic World (1492–1700)]

***For Undergraduates and Graduates***



**Spanish 101. The Structure of Spanish**

Catalog Number: 8647

*Luis M. Girón Negrón*

*Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4*

An examination of structural syntax and stylistic paradigms in Spanish prose. Emphasis on theory and practice in Spanish narrative and expository writing. Other topics will include syntax, rhetoric, stylistics, close reading, and translation.

*Note:* Conducted in Spanish. For students with an advanced knowledge of Spanish, including native speakers.

**Spanish 112. La Celestina**

Catalog Number: 3653

*Francisco Márquez*

*Half course (spring term). M., W., at 10. EXAM GROUP: 3*

A close reading of work seen against the background of its main trends in modern interpretive criticism.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish.

**[Spanish 120. Medieval Spain in the *Poem of the Cid*]**

Catalog Number: 2963

*Francisco Márquez*

*Half course (spring term). Hours to be arranged.*

The times and the men as seen in the text of the poem. Interdisciplinary approach.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

**Spanish 124. Don Quixote**

Catalog Number: 1378

*Francisco Márquez*

*Half course (fall term). M., W., at 10. EXAM GROUP: 3*

Cervantes's masterpiece in the literary context of its times and its legacy to the modern European novel.

*Note:* Conducted in Spanish.

**Spanish 132. Andean Voices, European Writing**

Catalog Number: 1471

*José Antonio Mazzotti*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Will examine the transformative process of historiographic and literary production within the Andean context during the 16th and 17th centuries. How did the Incas manage to survive and remodel some dominant practices of representation? What cultural paradigms about the Indians were established then and have prevailed until today? The course will answer such questions through multidisciplinary analysis of works by Betanzos, Titu Cussi, Cieza de León, Guaman Poma de Ayala, the Huarochiri Manuscript, Inca Garcilaso de la Vega, and contemporary visual documentaries.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish. Text translations into English are available.



**[Spanish 135. Writing Women: Language, Culture, and Difference in 20th-Century Spanish Narrative]**

Catalog Number: 1015

*Bradley S. Epps*

*Half course (spring term). Hours to be arranged.*

Examines the situations and transformations of contemporary narrative fiction by Spanish women. Issues studied include gender, sexuality, and cultural production; oppression and resistance; war and remembrance; the rights of the individual; literary form and sexual identity; autobiography or self-invention; relations between the family and the state. Authors: Carmen de Burgos, Victor Català, Carmen Laforet, Mercè Rodoreda, Carmen Martín Gaité, Esther Tusquets, Carme Riera, Cristina Fernández Cubas. Theoretical and critical texts, primarily from feminism and cultural studies, are included.

*Note:* Expected to be given in 2001–02. Conducted in Spanish.

**[Spanish 139. Renaissance on the Border: Colonial Latin American Literature and the Formation of a Creole Tradition]**

Catalog Number: 0517

*José Antonio Mazzotti*

*Half course (fall term). Hours to be arranged.*

The appearance of an ethnic subjectivity in the form of a neo-European practice of writing is the subject of this course. It will examine some representative works in the scope of various processes of interaction between creoles, mestizos, blacks, mulattoes and indians who would later form the bases for new Latin American societies and literary systems. The role of Western traditions (classical epics, Renaissance poetics, Counter-Reform writing) in the specificity of a Latin American context will be of special interest. Readings by Ercilla, Oña, Peralta, Calancha, Sigüenza y Góngora, Sor Juana, El Lunarejo, and others.

*Note:* Expected to be given in 2001–02. Conducted in Spanish.

**[Spanish 172. Barcelona, fin-de-siècle](#)**

Catalog Number: 4211

*Bradley S. Epps*

*Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

Examines the construction, expansion, and transformation of Barcelona as cultural capital of Catalunya and as site of political and aesthetic experimentation. Drawing on creative writing, criticism, painting, sculpture, architecture, and urban planning at the end of both the 19th and 20th centuries (the first marked by the loss of Spanish colonies and the second by the consolidation of democracy after Franco's dictatorship), we explore national identity and nationalism; bilingualism and biculturalism; and the relations between art and economics, political conformity and resistance. Works by Pla, Maragall, Rusiñol Prat de la Riba, d'Ors, Espriu, Rodoreda, Monzó, Marçal; Miró, Dalí, Tàpies, Guinovart, Mariscal; Gaudí, Puig i Cadafalch, Domènech i Montaner, Bofill.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish.

**[Spanish 173. Madrid, fin-de-siècle]**

Catalog Number: 4425

*Luis Fernández-Cifuentes*



*Half course (fall term). Hours to be arranged.*

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. This course will explore and compare the cultural identity of both movements: from the Gran Vía facades and R. Baroja's engravings to the Castellana skyscrapers and the paintings of Antonio López; from Valle Inclán's plays to Almodóvar's films; from workers' movements to socialist democracy.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

### **Spanish 181. Islands and Enclaves: Caribbean Latino Literature in the United States**

Catalog Number: 3637

*Juan Flores (City College of New York)*

*Half course (spring term). F., 1–3:30. EXAM GROUP: 6, 7, 8*

Studies the works of Puerto Rican, Dominican, and Cuban writers in the United States, tracing traditions extending back to the late 19th century in the diaries and poetry of major exile writers including Jose Martí and Eugenio Maria de Hostos, and surveying the writings of the Puerto Rican emigrant community during the early decades, focusing on literature produced since emergence of Nuyorican writing in the 1960s.

*Note:* Conducted in English and Spanish.

### **[Spanish 186. Tobacco and Sugar]**

Catalog Number: 1141

*Doris Sommer*

*Half course (fall term). Hours to be arranged.*

“The Cuban Counterpoint Between Tobacco and Sugar” (1940) by Fernando Ortiz will be the guide for considering the esthetic and historical experiments throughout the Spanish Caribbean. The different crops produced different political and cultural responses. Along with a general view of musical forms and plastic arts, and political developments, we will concentrate on literary works that include *Cecilia Valdés*, and other abolitionist novels, the Dominican *Over* and *La charca* from Puerto Rico, as well as writing by Hostos and Bonó among many others.

*Note:* Expected to be given in 2001–02. Conducted in Spanish.

### **[Spanish 189. Colonial, Postcolonial]**

Catalog Number: 8490

*Doris Sommer*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 16, 17*

Through chronicles, fiction, film and critical theory, we will consider competing constructions of the Americas. Gender, religion, language, and the tensions between public and private spheres will be issues for discussion. Readings will range from versions of the conquest through today's indigenous and bicultural practices.

*Note:* Expected to be given in 2000–01. Readings and discussions in both Spanish and English.

### **Spanish 191. History, Fiction, and Politics in Latin America**

Catalog Number: 3218

*Ana María Amar Sánchez*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*



Explores the tension between history and fiction in Latin American literature. Analyzes the questions of autonomy and politics in texts by Roa Bastos, Fuentes, Vargas Llosa, Piglia. Readings include various theoretical texts by White, Foucault, de Man, Jameson.

*Note:* Conducted in Spanish.

### **Spanish 194. Latino Cultures**

Catalog Number: 2888

*Doris Sommer*

*Half course (spring term). Th., 6–8. EXAM GROUP: 18*

Inside two languages and cultures, Hispanics in the United States stretch border demarcations into a culturally productive space. To demands for English or Spanish only, they may answer with assertions of hybrid identities or irony about simple belonging. What is particular and culturally constitutive, about Latino writing, music, visual arts? What are the conflicts and collaborations along gender and national lines? History, anthropology and sociology will help to answer these questions and generally what “minority” cultures may mean in a country made up largely of immigrants — voluntary and forced — who often identify with particular ethnic groups.

*Note:* Conducted in English. Coordinated with “Latino Cultural Psychologies” at the School of Education by Professor Marcelo Suárez Orozco.

### **Spanish 199a. The 19th and 20th Century Latin American and Spanish Narrative, I**

Catalog Number: 8729

*Bradley S. Epps and Doris Sommer*

*Half course (fall term). Tu., 1–4. EXAM GROUP: 16, 17*

An advanced survey of the major continuities and movements of narrative fiction from both sides of the Atlantic. Special attention will be paid to literary history; the limits of genre; the formation and reformation of the nation; language, style, and structure; tradition and innovation; representation and reality. Authors for the first semester include: Marmol, Galdós, Clarín, Isaacs, Sarmiento, Rizal, Pardo Bazán, Villaverde, Azorín, Valle Inclán, Rivera.

*Note:* Conducted in Spanish. For advanced undergraduates as well as graduates. This is a course that will be conducted over two semesters. Students may enroll for one semester, either fall or spring, or for both.

### **Spanish 199b. The 19th and 20th Century Latin American and Spanish Narrative, II**

Catalog Number: 1965

*Bradley S. Epps and Doris Sommer*

*Half course (spring term). Tu., 1–4. EXAM GROUP: 16, 17*

An exploration of narrative in Spain and Latin America. Authors read in the second semester include: Unamuno, Rulfo, Catalá, Martín Santos, Rodoreda, Borges, Benet, Cortázar, J. Goytisolo, Roa Bastos, Valenzuela, Castellanos.

*Note:* Conducted in Spanish. Spanish 199a is not a prerequisite.

### ***Cross-listed Courses***



**Comparative Literature 111. From Type to Self in the Middle Ages**

**[Comparative Literature 112. Religion and Literature in the Middle Ages]**

**[Women's Studies 134. Women's Writing and Film in Latin America and the Caribbean]**

*Primarily for Graduates*

**[Spanish 201. The History of the Spanish Language]**

Catalog Number: 5610

*Francisco Márquez*

*Half course (spring term). Hours to be arranged.*

A general survey of the development of the Spanish language from Latin to the present.

Interdisciplinary approach.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

**[Spanish 210. Early Modern Spanish Literature: A Critical Introduction ]**

Catalog Number: 3502

*Mary Gaylord*

*Half course (fall term). Hours to be arranged.*

Designed for advanced students, this course offers an introduction to major texts, historical currents and critical issues related to Spanish literature of the 16th and 17th centuries, often called the Golden Age. Representative works will be studied in the several contexts of political and cultural history. Renaissance and Baroque refashioning of classical genres, and subsequent literary-historical and critical trends. Topics will include traditional and imported poetic forms, mysticism, picaresque and pastoral modes, the *Comedia Nueva*, rise of the novel, emerging theoretical discourses and concepts of language.

*Note:* Expected to be given in 2000–01. Given in Spanish. Open to undergraduates by permission of the instructor.

**[Spanish 243. Foundational Fiction and Film]**

Catalog Number: 3129

*Doris Sommer*

*Half course (fall term). Hours to be arranged.*

As moderns we may assume that national identity is as natural as gender identity. Explores the analogy and the mutual implications of nation and sexuality through selected “national romances,” and theoretical speculations by Benedict Anderson, Foucault, Lukács, de Man, and Benjamin, among others. Our analysis will include the ways these novels have shaped the national imaginary for generations: through film, telenovels, and opera.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

**[Spanish 261. Writing like a Woman in Latin America]**

Catalog Number: 5700

*Doris Sommer*

*Half course (fall term). Hours to be arranged.*

Explores the implied dialogue or struggle of women writers with a male tradition. Considers Sor Juana's “Response” to gender discipline, the purposeful confusion of race and gender oppression in Avellaneda's *Sab*, Teresa de la Parra's nostalgic answer to Gallegos's populism, and texts by



Matto, Allende, Menchú, Valenzuela, among others, along with selected theoretical essays.  
*Note:* Expected to be given in 2000–01. Conducted in Spanish.

### **Spanish 263. Problems of Representation of Space and Identity in Latin American Literature**

Catalog Number: 1620

*Ana María Amar Sánchez*

*Half course (fall term). M., 12–2. EXAM GROUP: 5, 6*

Explores representations of “the Latin American” in texts by Carpentier, García Márquez, Cortázar, and Puig. These texts share ways of representing language, culture, subjectivity, and space, crucial elements in the development of divergent conceptions of Latin American identity. Theoretical texts by Derrida, Spivak, Foucault, Bourdieu, Chartier, de Man, Jameson.

*Note:* Expected to be omitted in 2000–01. Conducted in Spanish.

### **Spanish 265. A Bilingual Esthetic**

Catalog Number: 3205

*Doris Sommer*

*Half course (fall term). M., 4–6. EXAM GROUP: 9*

A revival of esthetics is not inimical to a politics of multiculturalism, if it can explore how more-than-one-language games valorize “home” as well as hegemonic codes, and require tolerance for measures of cultural incomprehension. Along with primary texts in prose and poetry, we will note both the leads and the limitations in theorists including Wittgenstein, Freud and Arendt.

### **[Spanish 268. Telling Limits in American Ethnic Literatures]**

Catalog Number: 0612

*Doris Sommer*

*Half course (fall term). Hours to be arranged.*

Some texts resist “competent” readers with barriers that more reading will not overcome. Anglo as well as Latin Americans (Morrison, Menchú, Garcilaso, Rodriguez, Poniatowska, among others) use various strategies to defend difference, as a kind of strategic essentialism, and to raise concerns about the hermeneutic project. Primary texts alternate with interpretive theories.

*Note:* Expected to be given in 2001–02. Conducted in English.

### **Spanish 280r. Spanish Literature: Seminar**

Catalog Number: 2468

*Alban K. Forcione (Princeton University)*

*Half course (spring term). F., 1–4. EXAM GROUP: 6, 7, 8*

Topic for 1999–00: Masterpieces of the Spanish Baroque. Acquaints students with the literature of the Spanish Baroque through the reading of representative masterpieces. While the emphasis will be on the careful reading and understanding of the individual texts, we will try to proceed through our readings to an examination of important theories of the Baroque which have been advanced (e.g., Wölfflin, Weisbach, Spitzer, Rousset, Maraval.) Readings include: Góngora, Calderón, Quevedo, Ignatius, Cervantes.

*Note:* Conducted in Spanish.



### Spanish 281r. Spanish Literature: Seminar

Catalog Number: 2862

*Francisco Márquez*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Topic for 1999–00: *The Libro de Alexandre*. A thorough study of the *Libro de Alexandre* as the centerpiece of the *mester de clerecía* and its cultural, historical and literary backgrounds in 13th century Castile.

*Note:* Conducted in Spanish.

### Spanish 283r. Spanish Literature: Literature

Catalog Number: 8387

*Francisco Márquez*

*Half course (spring term). M., 1–3. EXAM GROUP: 6, 7*

Topic for 1999–00: Masters of the Spanish Drama of the 20th Century. Main trends of the Spanish drama from 1898 to the Spanish Civil War. Ideological and aesthetic consciousness as reflected in the works of Ramón del Valle Inclán and Federico Garcia Lorca.

*Note:* Conducted in Spanish.

### **[Spanish 285ar. Spanish Literature: Seminar]**

Catalog Number: 4099

*Luis Fernández-Cifuentes*

*Half course (spring term). Hours to be arranged.*

Topic for 2000–01: Spanish poetry, from Becquer to the present.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

### **[Spanish 287r. Spanish Literature: Seminar]**

Catalog Number: 4779

*Bradley S. Epps*

*Half course (fall term). Hours to be arranged.*

Topic for 1998–99: Problematizing Spain: Culture, Nation, and Identity at Century's End. Revisits the "problem of Spain" and the so-called "generation of 1898," when the loss of overseas colonies is the most visible manifestation of a protracted decline in power and influence. Examines nationalism and literary history; family, state and self; modernity and (de)generation; particularism and universalism. Special attention to non-Castilian works, especially from Catalunya.

*Note:* Expected to be given in 2000–01. Conducted in Spanish.

### Spanish 295r. Spanish-American Literature: Seminar

Catalog Number: 1310

*José Antonio Mazzotti*

*Half course (spring term). M., 3–5. EXAM GROUP: 8, 9*

Topic for 1999–00: Poetry and Nation. Will focus on some of the foundational poems of Spanish America from the 16th to the 20th Centuries. Special attention will be given to poetic formulations of ethnic nationhood (Bernardo de Balbuena, Pedro de Peralta), early nation building (Bello, Echeverría) and postcolonial discourses of social order. Will also examine key authors like Hernández, Martí, Borges, Vallejo and Neruda by making use of dialogic framework



and a comparative approach in light of other (Brazilian, Asian, African) postcolonial contexts.  
*Note:* Conducted in Spanish.

*Cross-Listed Courses*

**[\\*Comparative Literature 210. Comparative Themes in the Literatures of Medieval Spain: Seminar](#)**

*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

*Ana María Amar Sánchez 3182, Bruno G. Bosteels 1329 (fall term only), Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880, Luis Fernández-Cifuentes 2091, Mary Gaylord 2632 (on leave 1999-00), Francisco Márquez 5064, José Antonio Mazzotti 3083, and Doris Sommer 2744*

**\*Spanish 330. Direction of Doctoral Dissertations**

Catalog Number: 2143

*Ana María Amar Sánchez 3182, Bruno G. Bosteels 1329 (fall term only), Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880, Luis Fernández-Cifuentes 2091, Mary Gaylord 2632 (on leave 1999-00), Francisco Márquez 5064, José Antonio Mazzotti 3083, and Doris Sommer 2744*

## Russia, Eastern Europe, and Central Asia

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

*Faculty of the Standing Committee on the A.M. in Regional Studies—Russia, Eastern Europe, and Central Asia*

Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies and Director of the Davis Center for Russian Studies (*Chair*)

Svetlana Boym, Professor of Slavic Languages and Literatures and of Comparative Literature

Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures

Patricia R. Chaput, Professor of the Practice of Slavic Languages

Grzegorz Ekiert, Professor of Government

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature (*on leave spring term*)



Yoshiko M. Herrera, Assistant Professor of Government

John E. Malmstad, Samuel Hazzard Cross Professor of Slavic Languages and Literatures (*on leave fall term*)

Terry D. Martin, Assistant Professor of History (*on leave 1999-00*)

Roman Szporluk, Mykhailo Hrushevs'kyi Professor of Ukrainian History and Director of the Ukrainian Research Institute

William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education

Martin L. Weitzman, Ernest E. Monrad Professor of Economics

***Other Faculty Offering Instruction in Regional Studies—Russia, Eastern Europe, and Central Asia***

Svetlana Boym, Professor of Slavic Languages and Literatures and of Comparative Literature

Sue Brown, Assistant Professor of Slavic Languages and Literatures

Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

Loren R. Graham, Visiting Professor of the History of Science (*Massachusetts Institute of Technology*)

Janos Kornai, Allie S. Freed Professor of Economics (*on leave 1999-00*)

Jeffrey D. Sachs, Galen L. Stone Professor of International Trade

Andrei Shleifer, Professor of Economics

Celeste Wallander, Associate Professor of Government

This is a two-year interdisciplinary program leading to the A.M. degree. For details, see the supplement, “A.M. in Regional Studies—Russia, Eastern Europe, and Central Asia.” 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 international law or for the academic professions. Brochures describing the program and requirements may be obtained from the Davis Center for Russian Studies, 1737 Cambridge Street, Cambridge, MA, 02138.

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, and at MIT and the Fletcher School of Law and Diplomacy. 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. Arrangements may be made for students interested in fields not usually represented in course offerings.

A partial list of courses acceptable for the Program:

Economics 1301, 2300, 2306.

Government 1203, 1243, 1727, 2213, 2790.



History 1353, 1502, 1511, 1512, 1515, 2502, 2511.

History of Science 156, 256.

Russian and other Slavic languages: see Slavic Languages and Literatures listings.

Languages of Central Asia and the Caucasus: see Near Eastern Languages and Civilizations.

Armenian, Turkish: see appropriate departmental listings.

For course descriptions and availability, consult departmental listings.

***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 Regional Studies 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 Regional Studies Program.

*Timothy J. Colton 2269 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*)  
Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Culture  
Diana L. Eck, Professor of Comparative Religion and Indian Studies  
Rena Fonseca, Lecturer on Sanskrit and Indian Studies  
Charles Hallisey, John L. Loeb Associate Professor of the Humanities  
Theodore N. Proferes, Lecturer on Sanskrit, Teaching Assistant in the Core Program (*spring term only*)  
P. Oktor Skjaervo, Aga Khan Professor of Iranian  
Stanley J. Tambiah, Esther and Sidney Rabb Professor of Anthropology (*on leave 1999-00*)  
Stephanie W. Jamison, Assistant Professor of Sanskrit and Indian Studies (*Head Tutor and Director of Graduate Studies*) (*on leave spring term*)  
Michael Witzel, Wales Professor of Sanskrit

***Other Faculty Offering Instruction in the Department of Sanskrit and Indian Studies***

John B. Carman, Parkman Professor of Divinity and Professor of Comparative Religion (*Divinity School*)  
Pramod Chandra, George P. Bickford Professor of Indian and South Asian Art  
William A. Graham, Jr., Professor of the History of Religion and Islamic Studies  
C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology  
Richard H. Meadow, Senior Lecturer on Anthropology  
Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature  
Calvert Watkins, Victor S. Thomas Professor of Linguistics and the Classics  
Nur Yalman, Professor of Social Anthropology and of Middle Eastern Studies

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.

***Indian Studies***

***Primarily for Undergraduates***

**[\\*Indian Studies 91r. Supervised Reading and Research](#)**

Catalog Number: 0247

*Stephanie W. Jamison 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 \(formerly Indian Studies 98a\). Tutorial — Junior Year](#)**

Catalog Number: 4757



*Stephanie W. Jamison and members of the Department*  
*Half course (fall term; repeated spring term). Hours to be arranged.*  
*Note: Required of concentrators in the Indian Studies option.*

**\*Indian Studies 99. Tutorial — Senior Year**

Catalog Number: 6111

*Stephanie W. Jamison and members of the Department*  
*Full course. Hours to be arranged.*

*Note: Required of concentrators in the Indian Studies option.*

***Cross-Listed Courses***

**Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies**  
**Literature and Arts C-18. Hindu Myth, Image, and Pilgrimage**

***For Undergraduates and Graduates***

**[Indian Studies 111. Literary Cultures of India: An Introduction to the Study of South Asia]**

Catalog Number: 5599

*Charles Hallisey*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

An introduction to the study of South Asia through its literary institutions, authors, and texts. Focusing on classic texts from both the pre-modern and modern periods, the class will examine the place of literature in South Asian cultures, and especially in the religious and political life of India. A major theme of the course will be the interaction of cosmopolitan literatures written in languages like Sanskrit, Persian, and English, and those literatures written in regional languages like Hindi, Bengali, and Tamil.

*Note: Expected to be given in 2000–01. Given in alternate years. All readings are in English translation.*

**Indian Studies 112. Major Themes in Modern Indian History**

Catalog Number: 6068

*Rena Fonseca*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Topics to be covered: competing visions of the Indian "nations"; scholarly controversies surrounding the role of Gandhi and Nehru; Partition and its violent legacy; the rise of religious nationalism and caste-based politics; ethnic conflicts in Kashmir, Punjab and Assam. Where is India headed in the twenty-first century?

***Cross-listed Courses***

**[\*East Asian Buddhist Studies 114. The Mahayana in East Asia: Bodhisattvas and Their Cults in Medieval and Early Modern East Asian Buddhism]**

**[Religion 1551. For the Love of God and His Prophet: Literary and Artistic Expressions of Muslim Devotional Life]**



**Religion 1555. Introduction to Islamic Mysticism: The Sufi Tradition**

**[\*Religion 1585. Islam in South Asia: Seminar]**

**Religion 1600. Reading of Hindu Texts: An Introduction to Hinduism**

**[Religion 1614. The Bhagavad Gita]**

**[Religion 1615r. Philosophies of India]**

**[Religion 1616. The Yoga of Devotion: A Reading of a Hindu Theological Text]**

**[Religion 1700. Introduction to Buddhism]**

**[Religion 1703. Theravada Buddhism]**

**[Religion 1720. Buddhist Ethics: Proseminar]**

*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:* Expected to be omitted in 2000–01.

**[Indian Studies 203. Select Topics: Survey of Middle Indic Languages and Literatures]**

Catalog Number: 3570

*Stephanie W. Jamison*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 16, 17*

Readings in and linguistic analysis of the range of Middle Indic languages, including early inscriptions, Pali, the Prakrits, Buddhist Hybrid Sanskrit, and Apabhramsa. Emphasis on languages not ordinarily included in the curriculum.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* One year of Sanskrit.

**[Indian Studies 205a. South Asia as Understood Through Its Regions I: Seminar]**

Catalog Number: 0460

*Michael Witzel*

*Half course (fall term). Hours to be arranged.*

Based on the premise that the diversity of South Asian civilizations can best be approached and understood through an in-depth study of a particular region. Discussion of geography, history, religion, language, literature, art, religion, anthropology, society, and politics of the chosen region. Relation and mutual influence between the region and the South Asian subcontinent and with the two supraregional divisions of South Asia, the North and the South. Kashmir and Nepal.

*Note:* Expected to be given in 2001–02.

**[Indian Studies 205b. South Asia as Understood Through Its Regions II: Seminar]**

Catalog Number: 2317

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

Continuation of Indian Studies 205a.

*Note:* Expected to be given in 2001–02.



**[Indian Studies 206. Old Indian and Eurasian Creation Myths: Seminar]**

Catalog Number: 0923

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

An analysis of selected Old Indian (Rgvedic, Brahmana, Epic, Puranic) cosmogonic myths which are contrasted with comparable ones from other Indo-European and Asian traditions. The character and the position in the respective mythological system of the several myths treated are investigated, as well as possible interpretations and an emerging framework for their form, structure, and transmission in (pre-) historical times.

*Note:* Expected to be given in 2000–01. Offered jointly with the Divinity School as 3840.

**Indian Studies 211. Archaic Indian Religion: The Vedas. Seminar**

Catalog Number: 6441

*Michael Witzel*

*Half course (fall term). M., at 10. EXAM GROUP: 3*

Overview of the oldest form of Indian religion, in the Vedic texts (c. 1500–500 B.C.E.): the mythological system of the Rgveda, the complex array of solemn srauta and domestic rituals (rites of passage), and the transcendental philosophy of the Upanisads. Stresses the coherent *Weltanschauung* underlying all aspects of Vedic thought.

*Note:* Expected to be omitted in 2000–01. Knowledge of Sanskrit not required.

**[\*Indian Studies 216 (formerly Indian Studies 102). Early History of South Asia: Seminar]**

Catalog Number: 4919

*Michael Witzel and Richard H. Meadow*

*Half course (fall term). Hours to be arranged.*

Examines the archaeological and literary sources available for the understanding of the early period of Indian history, until ca. 150 B.C.E. Gives a synopsis of evidence relating to the Indus culture (2300–1900). The early Sanskrit and Pali literatures are scrutinized for the clues relating to history, state, and society of Northern India. The course takes into account recent discussions on rewriting early South Asian history from a nationalistic point of view.

*Note:* Expected to be given in 2000–01. Undergraduates are encouraged to apply for participation.

*Cross-listed Courses*

**[\*Comparative Literature 207. Theory and Methods in Comparative Oral Traditions: Seminar]**

**[East Asian Buddhist Studies 206. Hua-yen: The Formation of a Chinese School of Buddhism]**

**Iranian A. Old Persian**

**[Iranian B. Introduction to Avestan]**

**[Iranian Cb. Middle Persian II]**

**Iranian 142br. Avestan III**

**Iranian 144a. Eastern Middle Iranian I**

**Iranian 144b. Eastern Middle Iranian II**

**Linguistics 220ar. Advanced Indo-European**



**Persian 140ar. Selected Readings in Classical Persian Literature**  
**[\*Religion 1585. Islam in South Asia: Seminar]**

***Graduate Courses of Reading and Research***

**\*Indian Studies 302. Reading and Research**

Catalog Number: 1405

*Ali S. Asani 7739, Diana L. Eck 4514, Charles Hallisey 3032, Stephanie W. Jamison 1657 (on leave spring term), and Michael Witzel 1602*

**\*South Asian Buddhist Studies 303 (formerly \*Buddhist Studies 303). Reading and Research**

Catalog Number: 3517

*Charles Hallisey 3032 and Leonard W. J. van der Kuijp 1556*

***Sanskrit***

***Primarily for Undergraduates***

**\*Sanskrit 91r. Supervised Reading and Research**

Catalog Number: 5497

*Stephanie W. Jamison 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 (formerly Sanskrit 98ar). Tutorial — Junior Year**

Catalog Number: 3117

*Stephanie W. Jamison 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.

***For Undergraduates and Graduates***

**Sanskrit 101a. Elementary Sanskrit**

Catalog Number: 8140

*Stephanie W. Jamison*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

**Sanskrit 101b. Elementary Sanskrit**

Catalog Number: 6892

*Theodore N. Proferes*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

Continuation of Sanskrit 101a.



**Sanskrit 102a. Intermediate Sanskrit I**

Catalog Number: 4843

*Stephanie W. Jamison*

*Half course (fall term). M., W., F., at 2. EXAM GROUP: 7*

Selected readings in verse and prose, drawn primarily from the Epics (Mahabharata and Ramayana) and the Upanisads.

**Sanskrit 102b. Intermediate Sanskrit II**

Catalog Number: 4916

*Theodore N. Proferes*

*Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8*

Continuation of Sanskrit 102a.

***Primarily for Graduates***

**[Sanskrit 200ar (formerly Sanskrit 200r). Advanced Poetic Sanskrit]**

Catalog Number: 3658

*Michael Witzel*

*Half course (fall term). Hours to be arranged.*

Texts by Kashmiri authors.

*Note:* Expected to be given in 2000–01.

**[Sanskrit 200br (formerly Sanskrit 200r). Advanced Poetic Sanskrit]**

Catalog Number: 6510

*Stephanie W. Jamison*

*Half course (spring term). Hours to be arranged.*

Readings in classic narrative literature such as Dandin and its popular counterparts.

*Note:* Expected to be given in 2000–01.

**Sanskrit 201ar (formerly Sanskrit 201r). Philosophical Sanskrit**

Catalog Number: 5965

*Stephanie W. Jamison*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

*Note:* Expected to be omitted in 2000–01. Prerequisite for Sanskrit 201br, Upanisads.

**[Sanskrit 202r (formerly Sanskrit 202ar). Paninian Grammar]**

Catalog Number: 6605

*Michael Witzel and assistant*

*Half course (spring term). Hours to be arranged.*

Introduction to descriptive and generative methods of Panini's system of Sanskrit grammar.

*Note:* Expected to be given in 2000–01. Given in alternate years.

**Sanskrit 204ar. Introduction to Vedic Sanskrit and Literature**

Catalog Number: 6123

*Michael Witzel*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*



Introduction to Vedic grammar. Selection of Vedic prose texts from the Yajurveda Samhitäs, Brähmanas, Äranyakas and Upanisads. Builds on knowledge of elementary Sanskrit or Old Iranian.

**Sanskrit 204br. Introduction to Vedic Sanskrit and Literature**

Catalog Number: 8944

*Michael Witzel*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Continuation of Sanskrit 204ar.

**[Sanskrit 206r (formerly Sanskrit 206ar). Rgveda]**

Catalog Number: 5045

*Half course (spring term). Hours to be arranged.*

The Rgveda, the oldest Indian text, is composed in archaic (Vedic) Sanskrit which is closely related to the language of the Zoroastrian hymns. Builds on previous knowledge of Vedic grammar, Vedic prose or Mantra texts, or on a comparable background in Old Iranian or Indo-European.

*Note:* Expected to be given in 2000–01.

**[Sanskrit 207a (formerly Sanskrit 207). Advanced Mantra Texts]**

Catalog Number: 6951

*Michael Witzel*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

**Sanskrit 208r. Buddhist Hybrid Sanskrit**

Catalog Number: 3997

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*Half course (spring term). M., W., at 2. EXAM GROUP: 7*

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* Two years of Sanskrit.

**[Sanskrit 214. Vedic Sutras]**

Catalog Number: 6626

*Michael Witzel*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2001–02.

**[Sanskrit 215. Dharmasastra and Arthasastra]**

Catalog Number: 6599

*Stephanie W. Jamison*

*Half course (fall term). Hours to be arranged.*

Readings in legal and political texts.

*Note:* Expected to be given in 2001–02.

***Graduate Courses of Reading and Research***



**\*Sanskrit 301. Reading and Research**

Catalog Number: 2158

*Diana L. Eck 4514, Charles Hallisey 3032, Stephanie W. Jamison 1657 (on leave spring term), P. Oktor Skjaervo 2869, and Michael Witzel 1602*

**\*Sanskrit 310. Direction of Doctoral Dissertations**

Catalog Number: 4371

*Diana L. Eck 4514, Charles Hallisey 3032, Stephanie W. Jamison 1657 (on leave spring term), P. Oktor Skjaervo 2869, and Michael Witzel 1602*

***Pali***

***For Undergraduates and Graduates***

**Pali 101a. Introductory Pali**

Catalog Number: 4129

*Charles Hallisey*

*Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16, 17*

*Note: Expected to be omitted in 2000–01. Given in alternate years.*

*Prerequisite: One year of Sanskrit.*

**Pali 101b. Introductory Pali**

Catalog Number: 7320

*Charles Hallisey*

*Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16, 17*

*Continuation of Pali 101a.*

*Note: Expected to be omitted in 2000–01. Given in alternate years.*

*Prerequisite: One year of Sanskrit.*

**[Pali 102a. Intermediate Pali]**

Catalog Number: 8376

*Charles Hallisey*

*Half course (fall term). Hours to be arranged.*

*Note: Expected to be given in 2000–01.*

**[\*Pali 102b. Intermediate Pali]**

Catalog Number: 7748

*Charles Hallisey*

*Half course (spring term). Hours to be arranged.*

*Continuation of Pali 102a.*

*Note: Expected to be given in 2000–01.*

*Prerequisite: Pali 102a or equivalent.*

**Pali 103r. Readings in Pali**

Catalog Number: 6985

*Charles Hallisey*



*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be omitted in 2000–01.

### ***Graduate Courses of Reading and Research***

#### **\*Pali 300. Reading and Research**

Catalog Number: 5391

*Charles Hallisey 3032*

### ***Nepali***

#### ***For Undergraduates and Graduates***

#### **[Nepali 101. Introductory Nepali]**

Catalog Number: 3039

*Michael Witzel and assistant*

*Full course (indivisible). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

### ***Urdu and Hindi***

#### ***For Undergraduates and Graduates***

#### **Urdu 101. Introductory Urdu-Hindi**

Catalog Number: 4078

*Ali S. Asani and assistants*

*Full course (indivisible). Meets 5 times/week. Lectures: Tu., Th. at 2 or 3. Sections: M., W., F. at 2, 3, or 4. EXAM GROUP: 16, 17*

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

*Ali S. Asani and assistants*

*Full course (indivisible). Lectures: Tu., Th., at 4. Conversation Sections to be arranged. EXAM GROUP: 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 103r. Readings in Urdu-Hindi**

Catalog Number: 4815



*Ali S. Asani and assistant*

*Half course (fall term; repeated spring term). Fall: Tu., 5–7 p.m.; Spring: Tu., Th., at 4. EXAM GROUP: 18*

A course for advanced students with readings in Urdu and/or Hindi prose and poetry.

**Urdu 104. The Classical Urdu Ghazal and Its Symbolism**

Catalog Number: 0927

*Ali S. Asani and assistant*

*Half course (spring 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 omitted in 2000–01.

*Prerequisite:* Urdu 102 or equivalent.

***Graduate Courses of Reading and Research***

**\*Urdu 300. Reading and Research**

Catalog Number: 2131

*Ali S. Asani 7739*

***Tibetan and Himalayan Studies***

***For Undergraduates and Graduates***

**Tibetan 101a (formerly Tibetan 122). Elementary Classical Tibetan**

Catalog Number: 4132

*Leonard W. J. van der Kuijp and assistant*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

*Note:* This is a prerequisite for Tibetan 102 and 103.

**Tibetan 101b (formerly Tibetan 132). Intermediate Classical Tibetan**

Catalog Number: 5299

*Leonard W. J. van der Kuijp and assistant*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

*Note:* This is a prerequisite for Tibetan 102 and 103.

**[Tibetan 103. Introduction to Pre-Classical Tibetan]**

Catalog Number: 7031

*Leonard W. J. van der Kuijp*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Tibetan 101a and 101b.

**Tibetan 104a (formerly Tibetan 123). Elementary Colloquial Tibetan**

Catalog Number: 4158



*Leonard W. J. van der Kuijp and assistant*  
*Half course (fall term). M., W., F., at 12. EXAM GROUP: 5*  
*Note: Expected to be omitted in 2000–01.*

**Tibetan 104b (formerly Tibetan 133). Elementary Colloquial Tibetan**

Catalog Number: 7026  
*Leonard W. J. van der Kuijp and assistant*  
*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*  
Continuation of Tibetan 104a.  
*Note: Expected to be omitted in 2000–01.*

**[Tibetan 105a (formerly Tibetan 124). Advanced Colloquial Tibetan]**

Catalog Number: 1314  
*Leonard W. J. van der Kuijp and assistant*  
*Half course (fall term). Hours to be arranged.*  
*Note: Expected to be given in 2000–01.*

**[Tibetan 105b (formerly Tibetan 134). Advanced Colloquial Tibetan]**

Catalog Number: 1151  
*Leonard W. J. van der Kuijp and assistant*  
*Half course (spring term). Hours to be arranged.*  
*Note: Expected to be given in 2000–01.*

**[Tibetan 106. Buddhism in Tibet: Traditional Learning and the Experience of Enlightenment]**

Catalog Number: 5604  
*Leonard W. J. van der Kuijp*  
*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*  
*Note: Expected to be given in 2001–02. All readings are in English translation.*

***Primarily for Graduates***

**[Tibetan 200a. Classical Poetic Tibetan]**

Catalog Number: 7360  
*Leonard W. J. van der Kuijp*  
*Half course (fall 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 glosses by Gser mdog Pan chen, 1428–1507.  
*Note: Expected to be given in 2000–01.*

**[Tibetan 201. Introduction to Philosophical Tibetan]**

Catalog Number: 7507  
*Leonard W. J. van der Kuijp and assistant*  
*Half course (fall term). Hours to be arranged.*



Readings in Tibetan grub mtha' literature.  
*Note:* Expected to be given in 2001–02.

**[Tibetan 202. Readings in Advanced Philosophical Tibetan ]**

Catalog Number: 7601  
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*Half course (spring term). Hours to be arranged.*

Selected topics from the ninth chapter of several Tibetan Bodhicaryavatara commentaries.

*Note:* Expected to be given in 2001–02.

**Tibetan 203a. Readings in Canonical Buddhist Tibetan**

Catalog Number: 7770

*Leonard W. J. van der Kuijp and assistant*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 17, 18*

*Note:* Expected to be omitted in 2000–01.

**Tibetan 204a. Readings in Tibetan Administrative Documents**

Catalog Number: 0254

*Leonard W. J. van der Kuijp*

*Half course (fall term). Tu., Th., 11–12:30. EXAM GROUP: 13, 14*

Prerequisite for Tibetan 204b

*Note:* Expected to be omitted in 2000–01.

**Tibetan 204b. Readings in Tibetan Administrative Documents**

Catalog Number: 7255

*Leonard W. J. van der Kuijp*

*Half course (spring term). Tu., Th., 11–12:30. EXAM GROUP: 13, 14*

Continuation of Tibetan 204a

*Note:* Expected to be omitted in 2000–01.

**Tibetan 205a. Readings in Bilingual Tibetan-Mongol Buddhist Literature**

Catalog Number: 3816

*Leonard W. J. van der Kuijp*

*Half course (fall term). Th., 2–5. EXAM GROUP: 16, 17, 18*

Prerequisite for 205b

*Note:* Expected to be omitted in 2000–01.

**Tibetan 205b. Readings in Bilingual Tibetan-Mongol Buddhist Literature**

Catalog Number: 9070

*Leonard W. J. van der Kuijp*

*Half course (spring term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16*

Continuation of Tibetan 205a

*Note:* Expected to be omitted in 2000–01.

**Tibetan 207a. Readings in Classical Tibetan Scientific Literature**

Catalog Number: 7945



*Leonard W. J. van der Kuijp*  
*Half course (spring term). Hours to be arranged.*  
Indigenous Tibetan grammatical treatises.

**[\*Tibetan 210. Tibetan Epigraphy and Edicts]**

Catalog Number: 7374

*Leonard W. J. van der Kuijp and assistant*  
*Half course (spring term). Hours to be arranged.*

Readings in selected inscriptions from Ladakh, Central Tibet, and Tibeto-Mongol edicts from 1240–1368.

*Note:* Expected to be given in 2000–01.

**[Tibetan 212. Introduction to Tibetan Philology and Textual Criticism]**

Catalog Number: 7162

*Leonard W. J. van der Kuijp*  
*Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8*  
*Note:* Expected to be given in 2000–01.

***Graduate Courses of Reading and Research***

**\*Tibetan 300. Reading and Research**

Catalog Number: 0666  
*Leonard W. J. van der Kuijp 1556*

**\*Tibetan 302. Direction of A.M. Theses**

Catalog Number: 6927  
*Leonard W. J. van der Kuijp 1556*

**\*Tibetan 305. Tibetan and Himalayan Studies — Reading and Research**

Catalog Number: 4377  
*Leonard W. J. van der Kuijp 1556*

***Thai***

***For Undergraduates and Graduates***

**[Thai 101a. Introductory Thai I]**

Catalog Number: 5395  
*Michael Witzel and assistant*  
*Half course (fall term). Hours to be arranged.*  
*Note:* Expected to be given in 2000–01. Given in alternate years.

**[Thai 101b. Introductory Thai II]**

Catalog Number: 6557  
*Michael Witzel and assistant*



*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01. Given in alternate years.

**[Thai 102a. Intermediate Thai I]**

Catalog Number: 8582

*Michael Witzel and assistant*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

**[Thai 102b. Intermediate Thai II]**

Catalog Number: 3751

*Michael Witzel and assistant*

*Half course (spring term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

**[Thai 103r (formerly Thai 103ar). Readings in Thai]**

Catalog Number: 4134

*Michael Witzel and assistant*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

***Graduate Courses of Reading and Research***

**\*Thai 300. Reading and Research**

Catalog Number: 5368

*Michael Witzel 1602 and assistant*

## Slavic Languages and Literatures

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

***Faculty of the Department of Slavic Languages and Literatures***

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology (*Chair*)

Alexander Babyonyshev, Preceptor in Slavic Languages and Literatures

Anna Baranczak, Preceptor in Slavic Languages and Literatures (*on leave 1999-00*)

Stanislaw Baranczak, Alfred Jurzykowski Professor of Polish Language and Literature (*on leave 1999-00*)

Svetlana Boym, Professor of Slavic Languages and Literatures and of Comparative Literature  
(*Director of Graduate Studies*)



Sue Brown, Assistant Professor of Slavic Languages and Literatures  
 Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures  
 Thomas Joseph Butler, Preceptor in Slavic Languages and Literatures  
 Patricia R. Chaput, Professor of the Practice of Slavic Languages (*Director of the Language Program*)  
 Vladimir Y. Gitin, Senior Preceptor in Slavic Languages and Literatures  
 George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature (*on leave spring term*)  
 John E. Malmstad, Samuel Hazzard Cross Professor of Slavic Languages and Literatures (*on leave fall term*)  
 Helen Martikainen, Preceptor in Slavic Languages and Literatures  
 Natalia Pokrovsky, Preceptor in Slavic Languages and Literatures  
 Alfia A. Rakova, Preceptor in Slavic Languages and Literatures  
 Stephanie Sandler, Visiting Associate Professor of Slavic Languages and Literatures (*Amherst College*)  
 Lidia Stefanowska, Lecturer on Slavic Languages and Literatures (*fall term only*)  
 Alfred Thomas, John L. Loeb Associate Professor of the Humanities (*Director of Undergraduate Studies*)  
 William Mills Todd III, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, and Dean for Undergraduate Education

***Other Faculty Offering Instruction in the Department of Slavic Languages and Literatures***

Donald Fanger, Harry Levin Research Professor of Literature  
 Edward L. Keenan, Andrew W. Mellon Professor of History  
 Jurij Striedter, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature, Emeritus

***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.

**[Slavic A. Beginning Russian](#)**

Catalog Number: 8014



*Patricia R. Chaput and others*

*Full course. M., Tu., W., F., Sections at 9 (Sections I and II) or 10 (Section III); with a fifth hour of speaking practice to be arranged on Thursdays. EXAM GROUP: 1*

Introduction to the essentials of the Russian language, designed for students without previous knowledge of Russian. Intensive speaking practice in grammar structures 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

*Patricia R. Chaput and others*

*Full course (fall term; repeated spring term). M. through F., at 9. EXAM GROUP: 2, 11*

Covers the same material as Slavic A but in one semester.

*Note:* See sectioning note above.

### **Slavic Ac. Intermediate Grammar and Vocabulary Review I**

Catalog Number: 0496

*Patricia R. Chaput and others*

*Half course (fall term). M., W., F., at 10, with an additional hour Tu., at 10 or 11. EXAM GROUP: 4*

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.

*Prerequisite:* One or more years of college-level Russian or equivalent and consultation with the instructor.

### **Slavic B. Intermediate Russian**

Catalog Number: 3262

*Vladimir Y. Gitin and others*

*Full course. M., W., F., sections at 9 or at 10, with two additional hours of speaking practice: Tu., Th., at 9, 10, or 11. EXAM GROUP: 1*

Major emphasis on the development of vocabulary and oral expression with continuing work on difficult grammar topics. Vocabulary thematically organized to include such topics as self and family, education, work, human relationships, politics, and national attitudes. Includes practice in the etiquette of common social situations. Vocabulary reinforced through film and the reading of classical and contemporary fiction and history. Computer exercises on selected topics.

*Note:* See sectioning note above.

*Prerequisite:* Slavic A, Aab, Ac, or placement at the intermediate level. Familiarity with fundamentals of Russian grammar, particularly case endings of the noun, pronoun, and adjective. One year's practice in spoken Russian.

### **Slavic Ba. Intermediate Russian: First Semester**

Catalog Number: 0638

*Vladimir Y. Gitin and others*



*Half course (spring term). M., W., F., at 10, with two additional hours of speaking practice Tu., Th., at 10. EXAM GROUP: 3, 12*

Covers the material of the first semester of Slavic B.

*Note:* 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 others*

*Full course (fall term; repeated spring term). Meets eight hours per week. Fall: M., through F., at 9, with an additional hour of speaking practice M., W., F., at 11; Spring: M., through F., at 10, with an additional hour of speaking practice M., W., F., at 10 or 1. EXAM GROUP: Fall: 2, 11; Spring: 3, 12*

Covers essentially the same material as Slavic B, but in one semester. Readings may vary.

*Note:* See sectioning note above.

*Prerequisite:* Slavic A, Aab, Ac, or placement at the intermediate level.

### **Slavic Ca. Beginning Czech I**

Catalog Number: 2173

*Alfred Thomas and assistant*

*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

*Alfred Thomas and assistant*

*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 Hašek, Capek, Havel, and Kundera.

### **\*Slavic Cr. Supervised Readings in Intermediate/Advanced Czech**

Catalog Number: 0847

*Patricia R. Chaput and assistant*

*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:* Interested students should contact Professor Chaput before the first day of class to apply. No applications accepted after the third day of classes.



### **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 for 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

*Patricia R. Chaput and assistant*

*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:* Interested students should contact Professor Chaput before the first day of class to apply. No applications accepted after the third day of classes.

### **Slavic Ea. Beginning Croatian and Serbian I**

Catalog Number: 3163

*Thomas Joseph Butler*

*Half course (fall term). M., W., F., at 10, and an additional hour for speaking practice to be arranged. EXAM GROUP: 3*

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 and Serbian II**

Catalog Number: 2683

*Thomas Joseph Butler*

*Half course (spring term). M., W., F., at 10, and an additional hour for speaking practice to be arranged. EXAM GROUP: 3*

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



*Patricia R. Chaput and assistant*

*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:* Interested students should contact Professor Chaput before the first day of class to apply. No applications accepted after the third day of classes.

### **Slavic Ga. Beginning Ukrainian I**

Catalog Number: 5536

*Patricia R. Chaput and assistant*

*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

*Patricia R. Chaput and assistant*

*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

*Patricia R. Chaput and assistant*

*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:* Interested students should contact Professor Chaput before the first day of class to apply. No applications accepted after the third day of classes.

### **Slavic 101. Advanced Intermediate Russian: Reading, Grammar Review, and Conversation**

Catalog Number: 7234

*Natalia Pokrovsky (fall term) and Alfia A. Rakova*

*Half course (fall term; repeated spring term). Fall: M., W., F., at 9 or 11, with two additional hours of speaking practice Tu., Th., at 10, 11, or 1; Spring: M., W., F., at 11, with two additional hours of speaking practice Tu., Th., at 1. EXAM GROUP: Fall: 2, 4; Spring: 4*

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 by Chekhov and Dostoevsky, poetry, and film.



*Note:* See sectioning note above.

*Prerequisite:* Slavic B, Bab, Bb, or placement at this level.

### **Slavic 102. Advanced Russian: Introduction to the Russian Press and Historical Writing**

Catalog Number: 3280

*Helen Martikainen*

*Half course (fall term). M., W., F., at 9, and a fourth hour to be arranged. EXAM GROUP: 2*  
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, 103, 104, or Slavic B, Bb, or Bab with permission of instructor.

### **Slavic 103. Advanced Russian: Reading, Composition, and Conversation**

Catalog Number: 8638

*Natalia Pokrovsky*

*Half course (fall term; repeated spring term). Fall: M., W., F., at 11, with two additional hours of speaking practice Tu., Th., at 1. Spring: M., W., F., at 11, with two additional hours of speaking practice Tu., Th., at 10 or 11. EXAM GROUP: 4*

Continuing work on vocabulary and grammar centering on verbs and verb government. Readings (a satirical tale by Shvartz, poetry of Akhmatova) and film (Bykov's *Scarecrow*) address personal and social aspects of Soviet totalitarianism.

*Note:* See sectioning note above. Strongly recommended for students who plan to continue on in Russian.

*Prerequisite:* Slavic 101, or placement at the 103 or 104 level.

### **Slavic 104. Advanced Russian: Topics in Russian Culture**

Catalog Number: 0795

*Alfia A. Rakova*

*Half course (spring term). M., W., F., at 1, with two additional hours of speaking practice Tu., Th., at 1. EXAM GROUP: 6*

Work on vocabulary, reading, and writing with continued emphasis on verbs. Through literary texts, non-fiction, and film, this course explores and seeks to identify Russian cultural attitudes in contrast with those of American and other cultures. Topics include explorations of attitudes toward the individual in society, gender roles, prestige and success, truth and falsehood, and justice and the law.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 103, 113 or permission of instructor.

### **Slavic 109. Theater Workshop**

Catalog Number: 1221

*Patricia R. Chaput and members of the Department*

*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 B, Bab, or placement at the third-year level or above.

### **Slavic 110. Russian for Business**

Catalog Number: 6212

*Helen Martikainen*

*Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

Introduction to the language of business, both oral and written, and to the etiquette of business situations. Development of vocabulary in the areas of management, economics, and politics. Discussion of cultural attitudes to business, both unofficial and official. Reading and discussion of articles from current periodicals in the areas of business, economics, and politics.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 101, 102, or 103, or permission of instructor.

### **\*Slavic 111. Advanced Russian: Readings in Russian/Post-Soviet Studies**

Catalog Number: 1594

*Alexander Babyonyshev*

*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 111/113r.

### **\*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 in Russian.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 102 plus an additional course at the level of Slavic 101 or above.

### **Slavic 113. Advanced Russian: Readings in Russian Literature**

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 116. Stylistics]**

Catalog Number: 3480

*Vladimir Y. Gitin*

*Half course (spring term). Hours to be arranged.*

Reading and analysis of selections from Russian literature of the 19th and 20th centuries focusing on interpretation of style and usage. Exercises in lexical, phraseological, and syntactic “synonymy.” Reinforcement through translation and composition.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Slavic 121.

### **\*Slavic 117r. Advanced Russian: Special Topics**

Catalog Number: 4671

*Alexander Babyonyshev*

*Half course (fall term). M., W., F., at 1. EXAM GROUP: 6*

Russian/post-Soviet studies, including the political, economical and judicial system, parliamentary and presidential elections, the role of political parties, domestic affairs (including environmental policy), and foreign policy. Special topics include Russia as a federal state, the status of regions and republics, urban and rural areas. Also religions, human rights problems, the new social structure of the society.

*Note:* See sectioning note above.

*Prerequisite:* Slavic 111, 112, 119, 120, or permission of instructor.

### **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. Fet, Tiutchev, Annensky, Pasternak, Tsvetaeva.

*Note:* Expected to be omitted in 2000–01. See sectioning note above.

*Prerequisite:* Slavic 121.

### **\*Slavic 119. Contemporary Issues: Nationalities of the Former Soviet Union**

Catalog Number: 0636

*Alexander Babyonyshev*

*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 102 and 103 or Slavic 111a, 111b, 112, or 120.



**\*Slavic 120r (formerly Slavic 120). Supervised Readings in Advanced Russian**

Catalog Number: 7121

*Patricia R. Chaput and members of the Department*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Reading, discussion, and writing on special topics not addressed in other courses. Conducted as a tutorial with topics determined by student interest. Requires a course proposal to apply; acceptance is not automatic.

*Note:* See sectioning note above. Interested students should contact Professor Chaput before the first day of class to apply. No applications accepted after the third day of classes.

*Prerequisite:* Slavic 102, and additional course at the level of Slavic 101 or above, or Slavic 111, 112, 113 or permission of instructor.

**Slavic 121. Advanced Russian: Reading Literary Texts**

Catalog Number: 4812

*Vladimir Y. Gitin*

*Half course (fall term). M., at 12, F., 12–2, W., at 1. EXAM GROUP: 5, 6*

A course designed to further develop students' sensitivity to the reading of literary texts. Topics to include the nature of lexical meaning including both denotation and meaning associations, syntactic meaning, aspects of morphology, word order and intonation, and colloquial language. Texts will include both prose and poetry.

*Note:* Intended primarily for graduate students in the Slavic Department. See sectioning note above.

*Prerequisite:* Slavic 103 or placement at this level or above.

**[Slavic 122. Advanced Russian: Introduction to Academic Writing]**

Catalog Number: 4540

*Helen Martikainen*

*Half course (spring term). Hours to be arranged.*

Workshop in academic writing and lecturing for students who expect to be making written and oral presentations in Russian on academic topics. Consideration of traditions and conventions in academic writing in Russian and English, and in cross-cultural presentation. Students will rewrite existing course papers, create abstracts, and prepare topics in Russian literature and culture for both written and oral presentation.

*Note:* Expected to be given in 2000–01. Recommended for students who have completed other coursework and are working on the dissertation. See sectioning note above.

*Prerequisite:* An appropriate score on the placement exam or permission of the instructor.

***Slavic Literature, Culture, and Philology***

***Primarily for Undergraduates***

**\*Slavic 91r. Supervised Reading and Research**

Catalog Number: 2713

*Alfred Thomas and members of the Department*

*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

*Alfred Thomas and others*

*Half course (fall term). Tu., 2–4.*

*Note:* For concentrators in Russian Literature and Culture.

**\*Slavic 97. Tutorial — Sophomore Year**

Catalog Number: 7595

*Alfred Thomas and others*

*Full course. Th., 2–4.*

*Note:* For concentrators in Russian Studies.

**\*Slavic 98. Tutorial — Junior Year**

Catalog Number: 1684

*Julie A. Buckler (fall term) and John E. Malmstad (spring term)*

*Full course. W., 2–4.*

*Note:* Required of junior concentrators in Russian Literature and Culture. Other students may enroll for one or both semesters.

**\*Slavic 99r. Tutorial — Senior Year**

Catalog Number: 5592

*Alfred Thomas and members of the Department*

*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.

***For Undergraduates and Graduates***

**[Slavic 125. Modern Russian in Historical Perspective]**

Catalog Number: 5646

*Michael S. Flier*

*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 2000–01.

*Prerequisite:* Slavic B, Bab, or placement at the third-year level.

**Slavic 126a. Structure of Modern Russian: Phonology and Morphology**

Catalog Number: 3083

*Sue Brown*

*Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*



Introduction to transliteration, transcription, articulatory phonetics, phonemics, morphophonemics, inflection, and derivation. Examines why the spelling system only sometimes corresponds with its pronunciation; why conjugation and declension are more regular than they might seem; how to figure out the meaning of a word by looking at its parts, and in turn how it relates to other words that you might already know. Course goal is to give a deeper understanding and appreciation of the regularities and complexities of Russian through the study of its structure.

*Prerequisite:* Slavic B, Bab or placement at the third-year level.

### **Slavic 126b. Structure of Modern Russian: Morphosyntax**

Catalog Number: 3508

*Sue Brown*

*Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

Introduction to traditional and generative approaches to Russian syntax and grammatical categories. Topics include negation, case marking, reflexives, interrogatives, among others.

*Prerequisite:* Slavic B, Bab, or placement at the third-year level.

### **Slavic 130a. Survey of Czech Literature from the Beginnings to 1774**

Catalog Number: 1484

*Alfred Thomas*

*Half course (spring term). Tu., Th., at 10, and a third hour for those who wish to consider the texts in the original. EXAM GROUP: 12*

A survey of Czech literature from the Middle Ages to the beginning of the National Revival. Attention is paid to the historical, political, and social context, including questions of gender, race, and class. In addition to reading representative works of Czech literature, students are exposed to the most important aspects of Czech music, painting, and architecture from these periods.

*Note:* No knowledge of Czech required.

### **[Slavic 130b. Survey of Czech Literature from 1774 to the Present]**

Catalog Number: 2258

*Alfred Thomas*

*Half course (fall term). Tu., Th., at 10, and a third hour for those who wish to consider the texts in the original. EXAM GROUP: 12*

A survey of modern Czech literature from the beginning of the National Revival to the present. Attention is paid to the historical, political, and social context, including questions of gender, race and class. In addition to reading representative works of Czech literature, students are exposed to the most important aspects of Czech music, painting, and architecture from these periods.

*Note:* No knowledge of Czech required.

### **Slavic 132. Post-War Czech Literature and Film**

Catalog Number: 3925

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Examines the development of Czech poetry, fiction, drama, and cinema from 1945, through the Stalinist era, the post-Stalinist “thaw” of the late 50s and 60s, the “normalization” of the 1970s,



up to the Velvet Revolution and its aftermath. Special attention to works by Chytilová, Forman, Havel, Holub, Holan, Hrabal, Kundera, Linhartová, Lustig, Menzel, Páral, Škvorecký, Topol, Vaculik, and Weil.

*Note:* No knowledge of Czech required.

**[Slavic 133. Psychoanalytic Approaches to Slavic Literatures]**

Catalog Number: 0988

*Half course (fall term). Hours to be arranged.*

Explores “classical” Freudian and post-Freudian psychoanalytic approaches to selected works of 19th- and 20th-century Czech, Polish and Russian literature by Capek, Chekhov, Dostoevsky, Gogol, Kriseová, Kundera, Lem, Mácha, Nemcová, Pushkin, Reymont and Zamyatin with special reference to theoretical readings by Bersani, Borch-Jacobsen, Cixous, Freud, Kristeva, Lacan and others.

*Note:* Expected to be given in 2000–01. No knowledge of Slavic languages required.

**[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, origins and education of the Russian intelligentsia, public and private spheres. Examines European models for Russian literary production and the evolving tradition for Russian literature.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Good reading knowledge of Russian.

**[Slavic 141. Soviet Literature and Culture 1950s–1990s: Conference Course]**

Catalog Number: 1286

*Half course (spring term). Hours to be arranged.*

Examines the culture of the post-Stalin period from Socialist realism to the art of glasnost’ and post-communism. Literary texts (poetry, fiction, memoir), films, works of conceptual art, songs, and television programs are discussed and supplemented by readings in cultural theory. Special topics include the rewriting of history in literature and film, conceptions of utopia and kitsch, the relationship between art and mass culture, representations of sexuality, and exploration of national identity.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Russian. Most materials also available in English.

**[Slavic 144. Russian Dramatic Genres: Texts and Contexts]**

Catalog Number: 8117

*Julie A. Buckler*

*Half course (fall term). Hours to be arranged.*

Samples a wide variety of Russian dramatic texts (18th century to present) within the context of the theater as an institution: performance traditions, dramatic theory, artists, directory, repertoire, criticism, and theater-going practices. Explores the prevalence of performativity and theatricality in Russian culture. Compares Russian dramatic tradition with that of Russian national opera.



Surveys popular theatrical genres such as comic opera, vaudeville, operetta, and cafe-theater.  
*Note:* Expected to be given in 2000–01. No knowledge of Russian is required.

**[Slavic 145a. Russian Literature in Translation: The 19th-Century Tradition]**

Catalog Number: 5191

*Julie A. Buckler*

*Half course (spring term). Tu., Th., at 11, and a discussion hour to be arranged. EXAM GROUP: 13*

A survey of major works, chiefly fiction, from Pushkin through Dostoevsky, Tolstoy, and Chekhov.

*Note:* Expected to be given in 2000–01.

**[Slavic 145b. Russian Literature in Translation: The 20th-Century Tradition]**

Catalog Number: 6663

*Svetlana Boym*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 5, 14*

A survey of major works and trends in pre- and post-Revolutionary Russian literature from Chekhov through Brodsky and Tolstaya.

*Note:* Expected to be given in 2000–01.

**[Slavic 146 (formerly Slavic 284). Mapping St. Petersburg]**

Catalog Number: 2221

*Julie A. Buckler*

*Half course (fall term). Hours to be arranged.*

Petersburg's cultural history and culturally-defined topography. Revisits well-known literary texts by Pushkin, Gogol, Dostoevsky, Goncharov, Blok, Mandelstam, Akhmatova, Bely, and others in terms of urban and textual space theory. Considers memoirs, physiological sketches, feuilletons, myths, anecdotes, urban legends, visual representations, and photographs. Concludes with post-Soviet Petersburg's invocations of its pre-revolutionary identity.

*Note:* Expected to be given in 2000–01. No knowledge of Russian required.

**Slavic 152. Pushkin**

Catalog Number: 8023

*William Mills Todd III*

*Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16*

A survey of the lyrics, narrative poems, fiction, and critical prose of Russia's "national poet." Close reading of the texts; attention to contemporary cultural issues. Lecture and discussion.

*Prerequisite:* Good reading knowledge of Russian.

**[Slavic 155. Dostoevsky]**

Catalog Number: 6850

*William Mills Todd III*

*Half course (spring 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 2001–02. No knowledge of Russian required.

**[Slavic 156. Vladimir Nabokov: A Cross-Cultural Perspective]**

Catalog Number: 8650

*Svetlana Boym*

*Half course (fall term). Hours to be arranged.*

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.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Russian desirable but not required.

**[Slavic 157. Tolstoy]**

Catalog Number: 2005

*Julie A. Buckler*

*Half course (fall term). Hours to be arranged.*

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:* Expected to be given in 2000–01. No knowledge of Russian required.

**[Slavic 158. Some Versions of Russian Pastoral ]**

Catalog Number: 0581

*William Mills Todd III*

*Half course (fall term). Hours to be arranged.*

Readings of 18th- through 20th-century Russian literature, including prose and verse by Karamzin, Pushkin, Sergei Aksakov, Goncharov, Turgenev, Saltykov-Shchedrin, Tolstoy, and Gorky. Discussion focuses on contemporary cultural contexts and on theoretical issues.

*Note:* Expected to be given in 2001–02. No knowledge of Russian required.

**[Slavic 162e. Survey of Polish Literature from the Beginnings to 1795]**

Catalog Number: 5477

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*Half course (spring term). Hours to be arranged.*

Introductory course to show the birth and growth of Polish literature against the general cultural background of the Middle Ages, the Renaissance, the Baroque, and the Age of Enlightenment.

*Note:* Expected to be given in 2000–01. No knowledge of Polish required.

**[Slavic 162f. Survey of Polish Literature, 1795–1890](#)**

Catalog Number: 1117

*Lidia Stefanowska*

*Half course (fall term). M., W., at 12, and a third hour for those who wish to consider the texts in*



*the original. EXAM GROUP: 5*

Introductory course to analyze selected works from Polish Romantic and Positivist literature, up to the years of anti-Positivist crisis. Special emphasis on representative works for the formation of modern historical consciousness in Polish literature.

*Note:* No knowledge of Polish required.

**[Slavic 162g. Survey of Polish Literature, 1890–1939]**

Catalog Number: 7750

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*Half course (spring term). Hours to be arranged.*

Analysis of selected works representing the turn-of-the-century neo-Romantic movement of Young Poland and literature of the two decades between the world wars. Special emphasis on literary experiment in works of such authors as Witkacy, Gombrowicz, Schulz, and others.

*Note:* Expected to be given in 2000–01. No knowledge of Polish required.

**[Slavic 162h. Survey of Polish Literature, 1939–Present]**

Catalog Number: 3293

*Lidia Stefanowska*

*Half course (fall term). Tu., Th., at 10, and a third hour for those who wish to consider the texts in the original. EXAM GROUP: 12*

Analysis of selected works representing literature of the World War II period, literature written in Poland under Communist rule as well as in exile between 1944 and 1989, and literature of the most recent years.

*Note:* No knowledge of Polish required.

**[Slavic 162r. Readings in Polish Literature: From the Golden Age of the Renaissance to the Masterpieces of Our Time](#)**

Catalog Number: 8395

*Anna Baranczak*

*Half course (spring term). M., W., F., at 12. EXAM GROUP: 5*

A close-reading course to analyze selected masterpieces of Polish literature (poems, short stories, fragments of novels and plays) in the original, from the birth of Humanism in the 16th-century to 19th-century Romanticism to the modern and postmodern periods. Reading and discussion of the works of Jan Kochanowski (16th c.), Ignacy Krasicki (18th c.), Adam Mickiewicz, Juliusz Slowacki, Cyprian Norwid, Boleslaw Prus (19th c.), Witold Gombrowicz, Bruno Schulz, Czeslaw Milosz, Wislawa Szymborska, Zbigniew Herbert and others, with emphasis on their artistic structure and role in the historical process.

*Prerequisite:* Reading knowledge of Polish.

**[Slavic 165. Survey of Modern (19th- and 20th-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 with a special focus on literature as a social and cultural institution, on its central role in articulating ethnic awareness and shaping national identity, and its function, in various periods of Ukrainian history (the late 19th century,



the 1920s, the late Soviet period) as the prime medium of political discourse. Students are introduced to films of related interest such as “Shadows of Forgotten Ancestors,” “Arsenal,” “Babyi Yar,” and others.

*Note:* Expected to be given in 2000–01. 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 (spring term). Hours to be arranged.*

An examination of the broad gamut of Russian-Ukrainian literary relations from 1798 to 1905, with special focus on canon formation, the formation of ethnic and national identity, the movement from a unified imperial frame to separate national literary contexts, and the interrelation of literature, society, and ideology. Topics include early historicist concerns (the Decembrists), the role of Romantic poetics, folklore and ethnographism, the role of ideology (Belinsky, the Slavophiles, populism), the functions of bilingualism and the uses of translation, the reception of major writers (Gogol, Ševcenko, and others), official suppression and the debate over “Ukrainophilism” and the place of Ukrainian literature within “all-Russian” literature, literature as subversion (*kotljarevscyna*) and as social, political, and aesthetic program.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Reading knowledge of Russian.

**[Slavic 174. Studies in Russian 20th-Century Prose](#)**

Catalog Number: 1886

*Donald Fanger*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Through a combination of lecture, discussion, and short written exercises, investigates some of the major changes within the institution of Russian literature from 1890 to the present, with particular emphasis on formal and stylistic experiments in post-realistic fiction. Among authors considered (for the most part via short texts): Merezhkovsky, Chekhov, Andreev, Gorky, Sologub, Bely, Babel’, Olesha, Zoshchenko, Platonov, Nabokov, Sinyavsky.

*Note:* Reading is expected to be done in Russian; lectures (in English) quote texts in the original.

*Prerequisite:* Slavic 101 or an equivalent acceptable to the instructor.

**[Slavic 175. Theory of Narrative: Conference Course]**

Catalog Number: 2094 Enrollment: Limited to 15.

*Half course (fall term). Hours to be arranged.*

Studies of narrative (fictional, psychoanalytic, historical, sacred) as verbal structure, representation, rhetoric, and social phenomenon. Readings by Jakobson, Barthes, Bakhtin, Iser, Lukács, Foucault, and others. Analysis of the theoretical readings with reference to Russian and European narratives.

*Note:* Expected to be given in 2001–02. Open to advanced undergraduates and graduates.

Recommended for potential teaching fellows for Literature and Arts A-60.

**[Slavic 179. Literature as Institutions: Conference Course]**

Catalog Number: 6120 Enrollment: Limited to 15



*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 2001–02. Please pick up a syllabus in Barker 374 before the term begins, as there will be a brief assignment for the first class meeting.

**[Slavic 180. Russian Symbolist Poetry]**

Catalog Number: 6333

*John E. Malmstad*

*Half course (fall term). Hours to be arranged.*

A survey of the history of the Symbolist movement in Russian with emphasis on close reading of poetry by its major figures.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Slavic 101 or an equivalent acceptable to instructor.

**[Slavic 181a (formerly Slavic 153a). Russian Poetry of the 19th Century]**

Catalog Number: 3307

*John E. Malmstad*

*Half course (fall term). Hours to be arranged.*

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.

*Note:* Expected to be omitted in 2000-01.

*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 2000–01.

*Prerequisite:* Slavic 101 or an equivalent acceptable to the instructor.

***Cross-listed Courses***

**[Comparative Literature 159. The Peasant in Literature: Conference Course]**

**[Comparative Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course]**

**[Comparative Literature 168. Literature and Film]**

**[Foreign Cultures 72. Russian Culture from Revolution to Perestroika](#)**

**[Linguistics 110. Introduction to Linguistics](#)**

**[\\*Literature 128. Performing Texts](#)**



**Literature and Arts A-60. Aspects and Forms of Narrative**

[Literature and Arts C-28. Icon—Ritual—Text: Reading the Culture of Medieval Rus']  
[Literature and Arts C-30. How and What Russia Learned to Read: The Rise of Russian Literary Culture]

**Literature and Arts C-51. Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde**

*Primarily for Graduates*

**Slavic 201. Introduction to East Slavic Languages**

Catalog Number: 5134

*Michael S. Flier*

*Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Introduction to the structure and history of Russian, Ukrainian, and Belarusian.

**[Slavic 202. Introduction to West Slavic Languages]**

Catalog Number: 6877

*Michael S. Flier*

*Half course (spring term). Hours to be arranged.*

Introduction to the structure and history of Czech, Polish, Slovak, and Serbian.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Linguistics 250. Reading knowledge of a West Slavic language desirable.

**[Slavic 203. Introduction to South Slavic Languages]**

Catalog Number: 1665

*Sue Brown*

*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 2001–02. Reading knowledge of a South Slavic language desirable.

*Prerequisite:* Linguistics 250.

**Slavic 211. History of Muscovite Literature, 1500–1700: Conference Course**

Catalog Number: 3019

*Edward L. Keenan*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Survey of Muscovite literary works, translated and original, in various genres, with some attention to Kievan and other antecedents.

*Note:* All readings in original languages.

**[Slavic 212. The History of the Languages of Muscovy: Conference Course]**

Catalog Number: 7353

*Edward L. Keenan*

*Half course (spring term). Hours to be arranged.*

The history and structure of languages used in Muscovy (1500–1700); Muscovite vernacular,



chancery language (*prikaznyi iazyk*) and various recensions of Slavonic. Deals with the evolution and interaction of these languages and with conventions of their use.

*Note:* Expected to be given in 2001–02. All readings in the original.

*Prerequisite:* A firm command of modern Russian.

**[Slavic 213. Lessons of “The Igor Tale”: Antecedents, Text, Posterity]**

Catalog Number: 4649

*Edward L. Keenan*

*Half course (spring term). Hours to be arranged.*

An examination of the text, of its history, and recent scholarly analysis.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Firm command of modern Russian.

**[Slavic 222. 20th-Century Ukrainian Poetry, 1905 to World War II]**

Catalog Number: 8407

*George G. Grabowicz*

*Half course (fall term). Hours to be arranged.*

*Note:* Expected to be given in 2000–01.

**[Slavic 224r. Ukrainian Literature: Seminar]**

Catalog Number: 8393

*George G. Grabowicz*

*Half course (spring term). Hours to be arranged.*

Topic for 1998–99: Taras Sevcenko

*Note:* Expected to be given in 2000–01.

**Slavic 250. Structure of Ukrainian**

Catalog Number: 3547

*Michael S. Flier*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Survey of the phonology, morphology, and syntax of modern Ukrainian.

*Prerequisite:* Slavic 201 and reading knowledge of Ukrainian.

**Slavic 269. Structure of Russian for Instructors**

Catalog Number: 7807

*Patricia R. Chaput*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Survey of the structures and rules of Russian from the viewpoint of the instructor. Linguistic description of basic structures and its translation into pedagogical form. Discussion of the nature of grammatical “rules” and their formulation at different levels of study. Consideration of problems of identification of acceptable versus unacceptable usage and questions of varying and changing norms. Includes practice in difficult constructions.

**[Slavic 271. Russian Phonetics and Phonology]**

Catalog Number: 1565

*Michael S. Flier and others*



*Half course (spring term). Hours to be arranged.*  
Analysis of current issues in Russian phonetics and phonology.  
*Note:* Expected to be given in 2000–01.  
*Prerequisite:* Slavic 126a.

**[Slavic 272. Russian Morphology]**

Catalog Number: 2058  
*Michael S. Flier and others*  
*Half course (spring term). Hours to be arranged.*  
Analysis of current issues in Russian inflection and derivation.  
*Note:* Expected to be given in 2000–01.  
*Prerequisite:* Slavic 126a.

**[Slavic 273. Russian Syntax and Discourse Grammar]**

Catalog Number: 5149  
*Sue Brown*  
*Half course (fall term). Hours to be arranged.*  
Topic for 2001–02: Survey of topics in Russian syntax and discourse grammar.  
*Note:* Expected to be given in 2001–02. Students are expected to choose one of the Slavic languages and to gather data relating to the given topic.  
*Prerequisite:* Linguistics 112a or its equivalent (112b preferred but not mandatory) or permission of instructor. Knowledge of a Slavic language helpful but not required.

**[Slavic 280r. Slavic Culture: Seminar]**

Catalog Number: 1909  
*Michael S. Flier*  
*Half course (fall term). Hours to be arranged.*  
Topic for 2000–01: The Culture of Medieval Rus': Art, architecture, ritual, literature.  
*Note:* Expected to be given in 2000–01. Recommended for potential teaching fellows for Literature and Arts C-28.

**[Slavic 285r. Modern Russian Literature: Seminar]**

Catalog Number: 5182  
*John E. Malmstad*  
*Half course (spring term). Hours to be arranged.*  
Topic for 2000–2001: The culture of Russian avante-garde.  
*Note:* Expected to be given in 2000–01.  
*Prerequisite:* Slavic 101 or an equivalent acceptable to the instructor.

**[Slavic 286 \(formerly Slavic 176\). Russian Autobiographical Writing in the 20th Century: Conference Course](#)**

Catalog Number: 3550  
*Svetlana Boym*  
*Half course (fall term). W., 2–4. EXAM GROUP: 7, 8*  
Examines various autobiographical, fictional, poetic and theoretical texts from post-revolutionary times to the present. Close reading of the text with attention to the issues of



cultural self-fashioning, bilingualism and exile. Readings from Mayakovsky, Pasternak, Shklovsky, Jakobson, Tsvetaeva, Mandel'shtam, Nabokov and Brodsky.

*Prerequisite:* Reading knowledge of Russian required. Most materials also available in English.

### **Slavic 287. Poetic Self-Creation in 20th-Century Russia: Seminar**

Catalog Number: 8028

*Stephanie Sandler (Amherst College)*

*Half course (spring term). Th., 12–2. EXAM GROUP: 14, 15*

Examines how poems create self-images for poets working in and after Russian modernism, with special attention to the emergence of strong women poets in this century. Concentrates on Akhmatova, Mandel'shtam, Tsvetaeva, and Pasternak, followed by the reactions, rebellions, and fresh self-inventions of Petrovykh, Lisnianskaia, Sedakova, and Shvarts. Ends with an inquiry into modern rediscoveries of Pavlova.

*Note:* All readings in the original. Open to qualified undergraduates by permission of instructor.

### **Slavic 291. Problems in the History of Early Ukrainian Literature**

Catalog Number: 0643

*George G. Grabowicz*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

An examination of the major developments and phases of Kievan and early Ukrainian literature. Topics include the interrelation of written and oral literature, the system of genres of Kievan literature (with special focus on hagiography), the Renaissance and the interrelation with Polish literature, the confraternities, Vyshens'kyj, the Baroque, the Mohyla Academy, Skovoroda.

*Prerequisite:* Reading knowledge of Ukrainian.

### **Slavic 292. 20th-Century Ukrainian Prose**

Catalog Number: 5733

*George G. Grabowicz*

*Half course (fall term). M., 12–2. EXAM GROUP: 5, 6*

A survey of the major figures and tendencies in Soviet and emigré prose from 1917 to the 1990s. Special attention to be paid to the avant-garde of the 1920s–1940s (Khvyl'ovyj, Johansen, Domontovych, Kosach) and of the most recent period (Andijevs'ka, Andrukhovych, and others).

### **Slavic 296r. Slavic Linguistics: Seminar**

Catalog Number: 5196

*Sue Brown*

*Half course (fall term; repeated spring term). M., 3–5. EXAM GROUP: 8, 9*

Topic for 1999-00: *Fall:* Negation in Slavic. Considers negation in Slavic both historically and synchronically, with special focus on such phenomena as negative concord, genitive of negation, expletive negation, and negative interrogatives. Compares negation in Slavic to negation in other languages, including Catalan, Spanish, Italian, West Flemish, and Southern English. *Spring:* Comparative Slavic Morphosyntax. Survey of cross-linguistic variation and similarity within Slavic from a historical and synchronic perspective. Specific topics may include negation, WH-movement, indefinites, anaphora, null subjects, secondary predication, case, yes/no questions, quantification, clitics, and others.

*Note:* Students are expected to choose one of the Slavic languages and to gather data relating to



the given topic.

*Prerequisite:* Linguistics 112a or its equivalent (112b preferred but not mandatory) or permission of instructor. Knowledge of a Slavic language helpful but not required.

**\*Slavic 299. Proseminar**

Catalog Number: 7972

*Stephanie Sandler (Amherst College)*

*Half course (fall term). Th., 12–2. EXAM GROUP: 14, 15*

Introduction to graduate study in Slavic. Selected topics in literary analysis, history, and theory.

*Note:* Open to qualified undergraduates by permission of the chairman.

***Cross-listed Courses***

**\*Comparative Literature 260. Literature and Exile: Seminar**

**[\*Comparative Literature 261. Memory and Modernity: Seminar]**

**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

*Svetlana Boym 1926, Sue Brown 2926, Julie A. Buckler 2960, Patricia R. Chaput 6222, Michael S. Flier 2878, George G. Grabowicz 4511 (on leave spring term), Edward L. Keenan 1825, John E. Malmstad 1219 (on leave fall term), Jurij Striedter 4677, Alfred Thomas 1344, and William Mills Todd III 1634*

Members of the Department listed for Slavic 301 also direct doctoral dissertations.

**\*Slavic 301. Reading and Research**

Catalog Number: 3385

*Svetlana Boym 1926, Sue Brown 2926, Julie A. Buckler 2960, Patricia R. Chaput 6222, Michael S. Flier 2878, George G. Grabowicz 4511 (on leave spring term), Edward L. Keenan 1825, John E. Malmstad 1219 (on leave fall term), Alfred Thomas 1344, and William Mills Todd III 1634*

**\*Slavic 302. Language Teaching: Content and Conduct**

Catalog Number: 5961

*Patricia R. Chaput 6222*

*Half course (spring 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.



# Social Policy

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Committee on Higher Degrees in Social Policy*

Katherine Newman, Ford Foundation Professor of Urban Studies (*Kennedy School*) (*Chair*)

David Tabor Ellwood, Lucius N. Littauer Professor of Political Economy (*Kennedy School*)

Christopher Jencks, Malcolm Wiener Professor of Social Policy (*Kennedy School*)

Paul Pierson, Professor of Government (*on leave fall term*)

Mary C. Waters, Harvard College Professor and Professor of Sociology

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 United States 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 & 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 Web site [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 Web site ([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.

*Primarily for graduates*



\*Sociology 296a. Proseminar on Inequality and Social Policy I

*Note:* Jointly offered with the Kennedy School as HLE-511.

\*Sociology 296b. Proseminar on Inequality and Social Policy II.

*Note:* Jointly offered with the Kennedy School as HLE-512.

\*Sociology 297. Workshop on Social Policy.

*Note:* Jointly offered with the Kennedy School as HLE-513.

## Social Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Degrees in Social Studies*

Seyla Benhabib, Professor of Government (*Chair*)

K. Anthony Appiah, Professor of Afro-American Studies and of Philosophy

Marc L. Busch, Associate Professor of Government and of Social Studies (*on leave 1999-00*)

Mariko Chang, Assistant Professor of Sociology and of Social Studies

John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs (*on leave spring term*)

Richard N. Cooper, Maurits C. Boas Professor of International Economics (*on leave fall term*)

Brendan Dooley, Associate Professor of History and of Social Studies

Gwendolyn Dordick, Assistant Professor of Sociology and of Social Studies

Grzegorz Ekiert, Professor of Government

William F. Fisher, Associate Professor of Anthropology and of Social Studies (*on leave fall term*)

Peter A. Hall, Frank G. Thomson Professor of Government

Michael Herzfeld, Professor of Anthropology (*on leave 1999-00*)

Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor

Richard M. Hunt, Senior Lecturer on Social Studies

James T. Kloppenberg, Professor of History (*on leave spring term*)

Charles S. Maier, Krupp Foundation Professor of European Studies

Rebecca Mary McLennan, Assistant Professor of History and of Social Studies

Pratap Bhanu Mehta, Associate Professor of Government and of Social Studies

Louis Miller, Assistant Professor of History and of Social Studies



Glyn Morgan, Assistant Professor of Government and of Social Studies  
Elizabeth J. Perry, Henry Rosovsky Professor of Government  
Theda Skocpol, Victor S. Thomas Professor of Government and of Sociology  
Doris Sommer, Professor of Romance Languages and Literatures  
Aage B. Sørensen, Professor of Sociology  
Judith E. Vichniac, Senior Lecturer on Social Studies (*Director of Studies*)  
Cornel West, Alphonse Fletcher, Jr., University Professor and Professor of Afro-American Studies (*FAS*) and Professor of the Philosophy of Religion (*Divinity School*)  
Christopher Winship, Professor of Sociology

***Other Faculty Offering Instruction in Social Studies***

Terry K. Aladjem, Lecturer on Social Studies  
Anya Bernstein, Lecturer on Social Studies  
Francesco Duina, Lecturer on Social Studies  
David Fithian, Lecturer on Social Studies  
April Noel Flakne, Lecturer on Social Studies  
Daniel J. Goldhagen, Lecturer on Social Studies  
Jonathan M. Hansen, Lecturer on Social Studies  
Jonathan D. Kahn, Visiting Assistant Professor of Social Studies  
Lynne B. Layton, Assistant Clinical Professor of Psychology in the Department of Psychiatry (*Medical School*)  
Stephen A. Marglin, Walter S. Barker Professor of Economics  
Sylvia Maxfield, Lecturer on Government  
James E. Miller, Visiting Professor of Social Studies  
Henry S. Rubin, Lecturer on Social Studies  
Jennifer Schirmer, Lecturer on Social Studies  
Carmen J. Sirianni, Visiting Associate Professor of Social Studies

***Primarily for Undergraduates***

**[\\*Social Studies 10. Introduction to Social Studies](#)**

Catalog Number: 5278

*Glyn Morgan and staff*

*Full course. Tu., 2–4, and section hours to be arranged. EXAM GROUP: 16, 17*

An introduction to the classics of modern social theory and to major issues in social analysis. Readings in Adam Smith, Tocqueville, Marx, Mill, Weber, Durkheim, Freud, and in other 20th-century theorists.

*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). Hours to be arranged.*

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.

*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 98 — Junior Tutorials: Fall Term***

**[\\*Social Studies 98ax. Development and Modernization: A Critical Perspective](#)**

Catalog Number: 5504

*Stephen A. Marglin*

*Half course (fall term). Hours to be arranged.*

What are the assumptions about human beings and our relationships with one another that underlie the conviction that development and modernization constitute progress, and that the developed West shows the way the rest of the world should/must go? To have economic growth, must people buy a whole package that changes the society, the polity, and the culture along with the economy? This tutorial will provide a framework for thinking about these and related questions (for example, why don't economic problems fade as we get richer?), both in the context of the history of the West, and in the context of the Third World.

**[\\*Social Studies 98bc. Habermas and Foucault](#)**

Catalog Number: 6038

*Henry S. Rubin*

*Half course (fall term). Hours to be arranged.*

Builds on introductory knowledge of Habermas and Foucault. Contextualizes each in relation to Frankfurt School, Nietzsche, and classics of social theory. Focuses on rationalization, normalization, power, subjectivity, methodology, and the promises of the Enlightenment.

**[\\*Social Studies 98bj. History and Memory](#)**

Catalog Number: 1652

*Judith E. Vichniac*

*Half course (fall term). Hours to be arranged.*

Examines the way in which collective memory is shaped and its relationship to history. What is collective memory, and how does it differ from individual memory? How does history help to construct collective memory? When is collective memory a source for history? When does collective memory enrich and when does it impoverish? Case studies include the Civil War, World War I and the Holocaust.

**[\\*Social Studies 98bq. Popular Culture: Theories and Practices](#)**

Catalog Number: 2209

*Lynne B. Layton (Medical School)*

*Half course (fall term). Hours to be arranged.*

Examines the many theoretical perspectives on popular culture currently debated in academia--



Marxist, feminist, psychoanalytic, semiotic. Focusing on one or two popular media as case studies, we will draw on the theories to inform textual analysis and to investigate issues of production and reception.

**\*Social Studies 98ca. The Anthropology of Violence, Memory and Reconciliation**

Catalog Number: 5606

*Jennifer Schirmer*

*Half course (fall term). Hours to be arranged.*

Considers the nature of political violence and means of attaining reconciliation. Addresses different theoretical debates about truth, accountability and justice (i.e., the politics of memory), and whether the resurrection of the past serves to aid the reconciliation process or deepen the wounds. Compares specific cases of repression, truth commissions, post-repressive trials, and amnesty laws in Latin America, Bosnia and South Africa.

**\*Social Studies 98cd. The Politics of Social Policy in the United States**

Catalog Number: 8657

*Anya Bernstein*

*Half course (fall term). Hours to be arranged.*

Examines social policy in the United States and considers competing approaches to developing policy for the 21st century. Compares different perspectives on the nature and purposes of American social policy and explores how American institutions and political culture have shaped the development of social policy throughout the 20th century. Case studies will include welfare, health care, education, work–family policy, and social security.

**\*Social Studies 98ce. The Labor Market and Equality: Panacea or Poison**

Catalog Number: 8865

*Mariko Chang*

*Half course (fall term). M., 2–4.*

Examines the ways in which the labor market can perpetuate inequality and/or heighten social equality. Provides a comparative perspective on how labor markets shape and are shaped by other social institutions, such as the family, the state, and the educational system and how these factors impact the equality of different groups. Topics will include cross-national differences in structure, variation and outcome, the impact of policies such as affirmative action, and the relationship between the labor market and gender, racial, and class-based inequality.

**\*Social Studies 98ch. The Power of News**

Catalog Number: 1650

*David Fithian*

*Half course (fall term). Th., 2–4.*

Considers theories about, and studies of, the production, distribution, and consumption of news. Focuses on the agenda-setting power of journalism and addresses the question of whether news reflects and reinforces existing social, political, and economic relations, or shapes them. The influence of electronic media and live broadcasts on social and political behavior in general and democracy and citizenship in particular is also explored, as is the power of news organizations.



**\*Social Studies 98cq. Race and Ethnicity in the American Vein**

Catalog Number: 8176

*Jonathan M. Hansen*

*Half course (fall term). Hours to be arranged.*

Examines problems of blood and belonging in the United States from a theoretical, historical, and cultural-critical perspective. Explores the promise and peril of race and ethnicity as epistemological categories.

**\*Social Studies 98ct. Producing and Consuming the Good Life: Ideologies of Work and Leisure in East Asia**

Catalog Number: 1633

*Lida Junghans*

*Half course (fall term). Hours to be arranged.*

Examines the cultural and political processes that have shaped the experience of work, leisure, production, and consumption in East Asian societies since World War II. Explores the social technologies through which economic practices are made culturally meaningful. Topics include the relationship of work and leisure to individual and collective identity; the connections between production, consumption, and the nation-building process; and how cold war and orientalist legacies have shaped representations of work and leisure in East Asia.

**Social Studies 98cw. The Political Theory of Multiculturalism**

Catalog Number: 1766

*Pratap Bhanu Mehta*

*Half course (fall term). Hours to be arranged.*

Examines the challenge that cultural diversity poses for moral and political theory. What place does culture have in moral deliberation? Can the demands of diversity be squared with the claims of justice? What conceptions of diversity and justice do these questions presuppose? These questions will be examined theoretically and through examples. Readings include McIntyre, Taylor, Habermas, Rawls, Raz, Hampshire, Moody-Adams, Tully, and a range of case studies.

**Social Studies 98cy. Explaining Knowledge**

Catalog Number: 4858

*Michael Peter Biggs*

*Half course (fall term). Hours to be arranged.*

Explores whether objective, rational knowledge is possible. Questions include: How does knowledge change? If knowledge will always be superseded, is it therefore “false”? Does “science” provide a superior kind of knowledge? How can we explain others’ adherence to beliefs that we believe to be false? Finally, does knowledge differ when its object is human culture? Focuses on natural science as it has developed since the 17th century, but also considers cartography, witchcraft, and social science.

**Social Studies 98cz. Boundaries, Violence, and Nationalism: The New Ethnography of Europe**

Catalog Number: 0758

*Thomas Michael Malaby*

*Half course (fall term). Hours to be arranged.*



Examines theories of nationalism and recent ethnographies of Europe to illuminate the disparate circumstances of Europe's people and the prominence of the discourse of unification in their everyday lives. Explores how borders created the context for violence and posed a challenge for nation-states in their deployment of authority and their development of notions of citizenship in Ireland, the Pyrenees, the former Yugoslavia, and elsewhere. Analyzes these ethnographies to clarify prospects and problems of a unified Europe and provides a local-level exploration of violence and boundaries to understand the recent and tragic prevalence of the former in the region.

### **Social Studies 98db. Democracies and Markets**

Catalog Number: 8362

*Phineas Reed Baxandall*

*Half course (fall term). Hours to be arranged.*

An in-depth examination of how political and market forces influence one another. The course begins by questioning some basic behavioral assumptions of economics and examining more politicized and socially-embedded perspectives on the organization of economic life. Subsequent classes explore alternative views of how individuals manage to act collectively and how interests are aggregated into policy. Students will examine ways that political and institutional configurations underlie economic trends, as well as ways that economic interests structure political conflict. Major applications in political economy will include: campaign finance, unemployment, welfare states, globalization, and new information technologies.

### **Social Studies 98df. Comparative and International Political Economy**

Catalog Number: 5750

*Sylvia Maxfield*

*Half course (fall term). Hours to be arranged.*

Develops research skills and an ability to analyze the similarities and differences between the interaction of politics and economics across nations. Organized around specific issues: the politics of economic reform; the economics of transition to democracy; political business cycles; the correlation between growth and institutions of governance; and internationalization and cross-national convergence in economic policy. Each student will pick a country to research and report on during the course of the semester.

### **Social Studies 98dh. Cultural Pluralism and American Law**

Catalog Number: 1941

*Jonathan D. Kahn*

*Half course (fall term). Hours to be arranged.*

Takes a broadly interdisciplinary approach to examine the myriad ways in which the American legal system has confronted questions of the legal status of "culture," "identity," and "difference." Readings will be drawn from legal studies, history, politics, anthropology, and philosophy. There is no escaping the fact that law shapes identity. Law tells us who we are and where we stand in society. While sometimes benign, such classifications can also be a devastatingly powerful instrument of ostracism and subjugation. Conversely, recognition and classification may also give voice and agency to distinct groups and their members. We will explore these dynamics by looking to such different areas of American law and politics as racial



discrimination, nativism, religious persecution, native American rights, and the legal regulation of gender and sexuality.

***Social Studies 98 — Junior Tutorials: Spring Term***

**\*Social Studies 98ap. New Social Movements and Globalization**

Catalog Number: 5257

*William F. Fisher*

*Half course (spring term). Hours to be arranged.*

Examines the connections between regional and national social movements and transnational alliances of international non-government organizations, advocacy groups and transnational issue networks. Looks at environmental, human rights and women's movements in various parts of the world using case studies.

**\*Social Studies 98av. Leadership and Followership in Modern Society: Politics, Personality, and Charisma**

Catalog Number: 5427

*Richard M. Hunt*

*Half course (spring term). Hours to be arranged.*

Based on Social Studies 10 readings of Weber, Durkheim, and Freud, examines recent theories of leadership—political and professional—in modern society. Special attention is given to the relation between leaders and followers, and to the specific historical conditions from which leaders emerge. Also studies various forms of charismatic leadership. Case studies include Lincoln, Hitler, FDR, Huey Long, and Martin Luther King, Jr.

**\*Social Studies 98bg. The Contemporary American City**

Catalog Number: 0913

*Gwendolyn Dordick*

*Half course (spring term). M., 1–3.*

An introduction to the various theoretical and substantive aspects of the sociology of the American city. Examines unique qualities of the city as a social and cultural form. Specific topics include post World War II suburbanization and the emergence of edge cities; new immigrants, the informal economy, and globalization; race and ethnic relations; urban poverty and homelessness; as well as relevant policy issues.

**\*Social Studies 98cf. The European Union and the Nation State**

Catalog Number: 7870

*Francesco Duina*

*Half course (spring term). M., 2–4.*

Examines whether the European Union (EU) challenges the authority and existence of the nation state. Considers the early neo-functional theory of the 1950s and its critics, and then the more current approaches: intergovernmentalism, rational choice, institutionalism, europeanization, and others. Considers South America's MERCOSUR and Southeast Asia's ASEAN and their relationship to the nation state to gain a better understanding of the EU case.



**\*Social Studies 98cj. Democracy Ancient and Modern: From Pericles to American Politics**

Catalog Number: 5819

*James E. Miller*

*Half course (spring term). Hours to be arranged.*

A genealogy of democratic idealism. In an effort to see how the idea of democracy has come to play a pivotal—and often ambiguous—role in modern political life, the focus will be on two formative periods: Athens in the age of Pericles, and revolutionary America and France in the 18th century. Readings include historians as well as theorists: M.I. Finley, R.K. Sinclair, Plato, Aristotle; Gordon Wood, Jefferson, Madison; R.R. Palmer, Albert Soboul, Rousseau, Robespierre, Condorcet; Joseph Schumpeter, Walter Lippmann, Hannah Arendt and Benjamin Barber.

**\*Social Studies 98ck. Community Empowerment and Civic Democracy in the Contemporary United States: Theory, Practice, and Policy**

Catalog Number: 9316

*Carmen J. Sirianni*

*Half course (spring term). Hours to be arranged.*

Analyzes innovations in community organizing, civic engagement, and “policy design for democracy” in a variety of arenas (urban development, environment, health, journalism, social services, education) over the past several decades in the U.S. Examines these in terms of theories of deliberative democracy, social capital, and civil society, as well as debates on the future of the welfare state and regulatory politics. Considers the larger crisis of American democracy and the possibilities of civic renewal.

**\*Social Studies 98cl. Law and Society**

Catalog Number: 7389

*Terry K. Aladjem*

*Half course (spring term). Hours to be arranged.*

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.

**\*Social Studies 98cm. American Social Movements**

Catalog Number: 2773

*Anya Bernstein*

*Half course (spring term). Hours to be arranged.*

Examines social movements in 19th- and 20th-century America using theoretical material and case studies of major social movements. Topics will include how movements arise and evolve, how members determine strategy, the relationship between movements and other modes of politics, and why movements succeed or fail.

**\*Social Studies 98cp. Foundations of Contemporary Social and Cultural Theory**

Catalog Number: 5713

*April Noel Flakne*

*Half course (spring term). Hours to be arranged.*



Explores the influence of 20th-century continental philosophy on contemporary social and cultural theory. Investigates the increasing significance of language, the body, sexuality, and technology.

**\*Social Studies 98cr. Genocide**

Catalog Number: 9385

*Daniel J. Goldhagen*

*Half course (spring term). Hours to be arranged.*

Explores comparatively the phenomenon of genocide. Instances of mass killing discussed include the Armenians, the Holocaust, Cambodia, Rwanda, and Bosnia.

**Social Studies 98cv. Authoritarianism and Democracy in Latin America**

Catalog Number: 5595

*Steven R. Levitsky*

*Half course (spring term). Hours to be arranged.*

Examines political regimes and regime change in modern Latin America, focusing primarily on the cases of Argentina, Brazil, Chile, Mexico, Peru, and Venezuela. Compares different theoretical approaches (including modernization, neo-marxist, cultural, choice-centered, and institutional approaches) to explaining the emergence of democracy in the region, its breakdown in the 1960s and 1970s, and the “wave” of re-democratization in the 1980s and 1990s. Examines contemporary problems of democratic survival and consolidation, analyzing the effects of factors such as the international context, the debt crisis and economic liberalization, state weakness, political violence, and poverty and inequality. Also examines how different institutional structures, such as electoral systems, party systems, and executive-legislative arrangements, may affect the stability and quality of new democracies.

**Social Studies 98cx. Ethnic Diasporas and the Emergence of Creole Societies**

Catalog Number: 5490

*Engseng Ho*

*Half course (spring term). Hours to be arranged.*

The Current resurgence of interest in ethnic communities, now conceived as transnational ethnic diasporas, remains colored by the one-sided, interest-group politics of the plural society. Conceptually, the globalization of the ghetto distracts us from recognizing ongoing processes of creolization at work. This course examines how creole societies emerged in early-modern Southeast Asia and the Caribbean (including the American South). How did varying configurations of class, color, sexual union and economic opportunity frame the interaction of diasporic Africans, Asians and Europeans in the colonial creation of creole societies? In the 20th century, how were local creolizing processes affected by phases of parochialism (e.g. territorial nationalism, autarkic autocracy) and interationalism (e.g. socialism, transnational capitalism, Negritude, pop culture, religious fundamentalism, diasporic nationalism)? Can diasporas be utopian alternatives to the nation-state?

**Social Studies 98da. Disaster, Trauma, and Community in America**

Catalog Number: 2680

*David Fithian*

*Half course (spring term). Th., 2–4.*



Examines case studies of the social, psychological, and economic effects on communities from natural catastrophes, technological accidents, diseases, and other social crises. Cases include natural disasters (floods, hurricanes, and earthquakes), industrial contamination, acts of terrorism, and riots. Accidents such as the explosion of the space shuttle Challenger and pandemics such as AIDS are also considered. Explores concepts of community, collective action, altruism, survivor guilt, power, social justice, and faith, among others.

### **Social Studies 98dd. International Morality in Historical Perspective**

Catalog Number: 0357

*Jennifer Gaston Pitts*

*Half course (spring term). Hours to be arranged.*

How do we, and how should we, argue about the morality of war? What are states' obligations to people who are not their citizens, especially the very vulnerable? Analyzes modern theories of war, empire, and international justice from Aquinas and Grotius to Hannah Arendt. Examines such concepts as human rights, just war, nationality, and progress, through theoretical debates and historical examples.

### **Social Studies 98de. International Institutions and World Politics**

Catalog Number: 5519

*Kip Charles Wennerlund*

*Half course (spring term). Hours to be arranged.*

Explores the conditions under which international institutions affect world politics. International institutions are defined broadly, from enduring sets of rules, norms and practices, to formal international organizations like the United Nations or the International Monetary Fund. Reviews contending theoretical perspectives that disagree about the impact that international institutions have on relations among states and on outcomes within states. Surveys a number of influential precursors to present-day international institutions. Examines a variety of international and regional institutions in political, economic, security, environmental and humanitarian issue areas.

### **Social Studies 98dg. Democracy and Dictatorship**

Catalog Number: 9019

*Half course (spring term). Hours to be arranged.*

Considers why certain countries develop and maintain democratic institutions while others do not. Are the answers to be found in sociological preconditions, political culture, or institutional developments? Readings are drawn from classics in political science and sociology. Consideration is given to historical and contemporary cases.

### **\*Social Studies 99. Tutorial — Senior Year**

Catalog Number: 7501

*Judith E. Vichniac and staff*

*Full course. Hours to be arranged.*

Writing of senior honors essay.

*Note:* Required for concentrators.



# Sociology

## AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

### *Faculty of the Department of Sociology*

Christopher Winship, Professor of Sociology (*Chair*)  
 Kenneth T. Andrews, Assistant Professor of Sociology  
 Peter M. Beilharz, Visiting Professor of Australian Studies (*LaTrobe University*)  
 Lawrence D. Bobo, Professor of Sociology and of Afro-American Studies (*Director of Graduate Studies*) (*on leave 1999-00*)  
 Mariko Chang, Assistant Professor of Sociology and of Social Studies  
 Gwendolyn Dordick, Assistant Professor of Sociology and of Social Studies  
 David J. Frank, Associate Professor of Sociology  
 Jason A. Kaufman, Assistant Professor of Sociology  
 Stanley Lieberman, Abbott Lawrence Lowell Professor of Sociology (*on leave fall term*)  
 Peter V. Marsden, Professor of Sociology (*Acting Director of Graduate Studies*)  
 Francie L. Ostrower, Associate Professor of Sociology  
 Orlando Patterson, John Cowles Professor of Sociology  
 Barbara F. Reskin, Professor of Sociology (*on leave 1999-00*)  
 Libby Schweber, Assistant Professor of Sociology  
 Theda Skocpol, Victor S. Thomas Professor of Government and of Sociology  
 Aage B. Sørensen, Professor of Sociology  
 Ezra F. Vogel, Henry Ford II Professor of the Social Sciences (*on leave fall term*)  
 Mary C. Waters, Harvard College Professor and Professor of Sociology (*Head Tutor*)

### *Other Faculty Offering Instruction in the Department of Sociology*

Daniel Bell, Henry Ford II Professor of Social Sciences, Emeritus  
 James A. Davis, Professor of Sociology, Emeritus  
 Mary-Jo DelVecchio Good, Professor of Social Medicine (*Medical School*)  
 Christopher Jencks, Malcolm Wiener Professor of Social Policy (*Kennedy School*)  
 Katherine Newman, Ford Foundation Professor of Urban Studies (*Kennedy School*)  
 Lee Rainwater, Professor of Sociology, Emeritus

### *Introductory Courses*

#### [Sociology 10. Introduction to Sociology](#)

Catalog Number: 4814

*David J. Frank*

*Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3*

Distinguishes five approaches to the study of society — those centered on society as a whole, those centered on groups, and those centered on individuals, interactions, and cultures.



Introduces a range of classical and contemporary literatures to illustrate each approach, and thereby provides a broad survey of substantive fields of sociological interest, from religion and race to sports and friendship.

*Note:* Counts for introductory concentration requirement.

**[Sociology 11. American Society]**

Catalog Number: 3469

*Gwendolyn Dordick*

*Half course (fall term). Hours to be arranged.*

Explores selected aspects of contemporary American society from a sociological perspective. Topics will include gender, socialization and politics; popular culture and high culture; race and ethnicity; crime and drugs; poverty and homelessness; and the changing suburban landscape. Emphasis on the application of key concepts and approaches in social theory to understanding the workings of our social environment. Readings will focus on major works within each substantive area and will reflect a diversity of methodological approaches.

*Note:* Expected to be given in 2000–01. Counts for introductory concentration requirement.

**[Sociology 22. Gender and Work]**

Catalog Number: 7997

*Barbara F. Reskin*

*Half course (fall term). Hours to be arranged.*

An examination of how gender is related to people's experience at work, with a focus on the U.S. Will address how conceptions of work, skill, and the logic of pay systems are gendered and how these and other factors affect the types of jobs, compensation, and career advancement opportunities of the sexes. Will assess and examine various theoretical explanations for inequality between the sexes to consider the link between work and family. Will also consider how gender affects relations among coworkers.

*Note:* Expected to be given in 2000–01. Counts for introductory concentration requirement.

**[Sociology 25. Introduction to the Sociology of Organizations](#)**

Catalog Number: 3609

*Francie L. Ostrower*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

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. Race and Ethnic Relations]**

Catalog Number: 4114

*Mary C. Waters*

*Half course (spring term). Hours to be arranged.*

Examines race and ethnic relations in the United States 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 United States.

*Note:* Expected to be given in 2000–01. Counts for introductory concentration requirement.

### **Sociology 68. Social Movements**

Catalog Number: 0507

*Kenneth T. Andrews*

*Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5*

Explores the origins, dynamics and consequences of social movements from a sociological perspective. Examines a wide range of topics including: emergence of movements, recruitment and leadership, interactions of movements of the media, political elites and the broader public, tactics (e.g. nonviolent direct action, litigation), and the factors contributing to the success and failure of movements. Cases covered include the mobilization of racial and ethnic groups, women's movements, conservative/right-wing movements and environmental activism.

*Note:* Counts for introductory concentration requirement. Replaces Sociology 106.

### ***Cross-listed Courses***

**Foreign Cultures 26. Industrial East Asia**

**Foreign Cultures 46. Caribbean Societies: Socioeconomic Change and Cultural Adaptations**

**Social Analysis 38. Social Stratification**

**Social Analysis 54. American Society and Public Policy**

### ***Tutorials***

#### **\*Sociology 91r. Supervised Reading and Research**

Catalog Number: 4449

*Mary C. Waters 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 undergraduate office.

#### **\*Sociology 96. Individual Community Research Internship**

Catalog Number: 7425

*Mary C. Waters*

*Half course (fall term; repeated spring term). Fall: W., 7–9 p.m.; Spring: Tu., 7–9 p.m. Students wishing to enroll in this course must attend one of two sessions: Wednesday, February 2 or Thursday, February 3, from 7–9 p.m. in 455 William James Hall.*

Community Research Internships give students the opportunity to use the methods and ideas of sociology in the process of learning about and trying to deal with practical problems faced by communities and other social actors in society at large. Students are individually placed with community organizations and agencies where they carry out research on topics of concern to those organizations and agencies. Classwork focuses on instruction in the methods and



philosophy of fieldwork.

*Note:* Specific positions and projects vary from term to term, and are available largely on a first-come, first-served basis to students approved by the Head Tutor. Interested students should consult the Head Tutor's office about the nature and availability of internships at or before the beginning of the term. Both concentrators and nonconcentrators are welcome to apply.

### **\*Sociology 97. Sophomore Tutorial**

Catalog Number: 5079

*Kenneth T. Andrews*

*Half course (spring term). Hours to be arranged; attendance at first meeting is required. Wednesday, February 2, 3-5 pm.*

Introduces concentrators to sociological theory. Aims to give students a critical understanding of selected classic and contemporary theories and to explore the relative merits of these theories from an empirical standpoint. In the first part of the term, students read influential statements about sociological theory and its relationship to research, and learn how researchers construct, evaluate, and modify theory. Readings focus especially on the classical theories of Marx, Weber, and Durkheim. In the second part of the term, students read theoretical pieces by contemporary sociologists. Readings focus on works that particularly reflect the theoretical concerns of the earlier classic thinkers.

*Note:* Required of and limited to concentrators, ordinarily sophomores.

### **\*Sociology 98. Junior Tutorial**

Catalog Number: 5943

*Mary C. Waters and members of the department.*

*Half course (fall term; repeated spring term). Hours to be arranged.*

Small group research projects centered on common topics that vary by seminar and year. This year's topics include: Fall: wealth, power, and social diversity (98o); Spring: poverty and homelessness in urban areas (98d); civil society and the voluntary sector in comparative/historical perspective (98k). Recent topics have been on migration; science and society; advancing research and social policies in Afro-America; controversies of ideology and social knowledge; ethnic and racial identity; and sex and race in employment.

*Note:* Required of and limited to concentrators, ordinarily juniors.

### **\*Sociology 99. Senior Tutorial**

Catalog Number: 6237

*Mary C. Waters 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 enroll 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 103. Environment and Society**

Catalog Number: 6928



*David J. Frank*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

One of the profound changes of the 20th century is the rise of the belief that human society is embedded in a physically sustaining natural environment — an ecosystem. In this course, we explore alternatives to the ecosystem model, and then look at how social structures have been theorized to affect the “ecosystem” and vice-versa.

### **Sociology 109. Schooling and Society**

Catalog Number: 1481

*Aage B. Sørensen*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

The social context of educational processes and their influence on inequality of educational opportunity. Includes consideration of the role of family background, race, and ethnicity; the organization of schools; and the organizational differentiation of students into tracks and ability groups. Draws on historical and comparative materials as well as contemporary U.S. studies.

### **\*Sociology 110. Sociological Approaches to Income and Wealth: Conference Course**

Catalog Number: 2404

*Mariko Chang*

*Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16*

Explores the sociological meaning of income and wealth and the ways in which these socially constructed meanings interact with social and economic behavior. Centered around the questions: In what ways are the economic and the social embedded? How are people’s perceptions of income and wealth shaped by social institutions such as the family, the economy, and the state? What are the sociological explanations for the distribution of income and wealth in society? What are the societal effects of growing or shrinking economic inequality?

### **Sociology 116. Professions and Disciplines**

Catalog Number: 1305

*Libby Schweber*

*Half course (fall term). M., W., at 3. EXAM GROUP: 8*

Uses the sociological literature to trace changes in the representation and organization of professions and disciplines in modern society. Topics include bases of professional authority, professions and ethics, public images, the consequences of bureaucratization, the relation between the professions and the state and different types of knowledge/power relations. Special attention is paid to the cases of medicine, law, and the social sciences in the United States.

### **[Sociology 122. Topics in Racial and Ethnic Relations: Conference Course]**

Catalog Number: 7851 Enrollment: Limited to 15

*Mary C. Waters*

*Half course (spring term). Hours to be arranged.*

Examines race and ethnic relations in the United States from a theoretical, historical, and comparative perspective. Surveys topics such as discrimination, prejudice, ethnic conflict, assimilation, intermarriage, generational change, and identity formation and retention. Current controversies over affirmative action, bilingual education, multiculturalism, and immigration



restriction will be considered.

*Note:* Expected to be given in 2000–01.

### **Sociology 124. Social Stratification**

Catalog Number: 9219

*Mariko Chang*

*Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12*

Examines individual and structural explanations for the generation and maintenance of inequality in the United States and the influence of stratification on individuals and groups. Covers status attainment and social mobility; the allocation of societal rewards according to class, race, and gender; the distribution of educational opportunities and cultural capital; and labor market segmentation by race, ethnicity, and gender.

### **\*Sociology 128. Paradigms of Social Inquiry**

Catalog Number: 5979

*Kenneth T. Andrews*

*Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4*

Introduces sociological thinking—what is a sociological problem, how to pose one, what alternative answers might be, how to weigh the evidence. Case studies of sociological research and theorizing. Stresses logic and reasoning, not particular statistical methods.

*Note:* Prerequisite to Sociology 156. Required of Sociology concentrators. For all other students, permission of instructor required.

### **[Sociology 129. Political Sociology]**

Catalog Number: 2495

*Kenneth T. Andrews*

*Half course (fall term). Hours to be arranged.*

An examination of the sociological approaches to power, politics, and the state. Major topics will include: state formation, revolution, nationalism, warfare, the formation and consequences of major policy initiatives, citizenship and rights, social movements, and the influence of various groups in politics.

*Note:* Expected to be given in 2000–01.

### **\*Sociology 130. The Politics of Illness: Conference Course**

Catalog Number: 6220

*Jason A. Kaufman*

*Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17*

Integrates contemporary sociological understanding of political processes with an historical understanding of the social development of medicine and the health-sciences. Specific topics of inquiry will include: political struggles over state responses to communicative disease (particularly AIDS); the sociology of scientific discovery; the social transformation of American medicine; the cognitive discovery that microbes cause disease and its ensuing impact on state formation; the role of disease in geo-political (i.e. military) conflict; the network-structure of disease pathology; mental illness and the politics of normalcy; reproductive health and gender politics; poverty, health, and politics; and future crises for the health-sciences infrastructure.



**[Sociology 135. The Caribbean Experience in America]**

Catalog Number: 7226

*Orlando Patterson*

*Half course (fall term). Hours to be arranged.*

Examines the migratory experiences of Caribbean peoples to the American mainland and their adjustment to American society, politics and culture. Begins with an overview of the different waves of migration of Caribbean peoples from the early 19th century to the present. The experience of different peoples from the region is then explored through case studies focusing on Jamaicans, Puerto Ricans, Cubans, Dominicans, Trinidadians, and Barbardians. Special attention is paid to the economic experiences of these migrants as well as their contributions to American cultural and political life.

*Note:* Expected to be given in 2000–01.

**\*Sociology 149. Ethnicity: Comparative and Historical Perspectives: Conference Course**

Catalog Number: 8242 Enrollment: Limited to 20

*Orlando Patterson*

*Half course (spring term). Th., 4–6. EXAM GROUP: 18*

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. The course explores the nature of ethnicity, the main theoretical approaches to the subject, and case studies of ethnic formation and conflict around the world, paying special attention to the relationship between ethnicity and religion, language, racism, and modernization.

**\*Sociology 150. The Social Underpinnings of Taste**

Catalog Number: 4638 Enrollment: Limited to 80

*Stanley Lieberson*

*Half course (spring term). (M.), W., F., at 11. EXAM GROUP: 4*

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.

**\*Sociology 156. Quantitative Methods in Sociology**

Catalog Number: 8958

*Peter V. Marsden*

*Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3*

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 162. Medical Sociology**

Catalog Number: 5801

*Mary-Jo DelVecchio Good (Medical School)*

*Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13*

Explores current topics in medical sociology, including the work of doctoring, the experience of illness, and the social distribution of health needs and health resources. Examines how medical knowledge, practice, research, and technology are culturally shaped and institutionally organized. Primarily focuses on biomedicine as a cultural system in North America; however, comparative illustrations are drawn from international medicine.

### **Sociology 163. Socialism and Sociology**

Catalog Number: 1448

*Peter M. Beilharz (LaTrobe University)*

*Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13*

Tracks the connections between theories and practices of socialism as a countercurrent in modernity from Marx to Bauman. Beginning with Bellamy and the field of utopia, revisits the idea of socialism in Marx, Weber, and Durkheim, proceeding through Bolshevism, Fabianism and Social Democracy. Examines Australian and American traditions and their outcomes, and attends to the Sombart Question of why there is no socialism in America? Includes questions of romanticism and progressivism, localism and internationalism as impulses within socialist traditions and labor movements, and questions of what comes after socialism.

### **[\*Sociology 165. Science and Culture: Conference Course]**

Catalog Number: 3274 Enrollment: Limited to 20.

*Libby Schweber*

*Half course (spring term). Hours to be arranged.*

The last decades witnessed radical changes in the ways in which scholars think about science and culture. These include a shift from the study of high culture and ideas to the study of material culture, practices, and power. This course uses an examination of the parallel development of the Sociology of Science and Cultural Studies to examine these developments. Introduces students to key approaches—including cultural materialism, the Birmingham school, the strong program, the cultural studies of science and postmodernism. Uses this analysis to reconsider the intellectual issues at stake in the “Science Wars” and “Culture Wars.”

*Note:* Expected to be given in 2000–01.

### **[Sociology 166. Poverty, Public Policy, and Controversy]**

Catalog Number: 8460

*Christopher Winship*

*Half course (fall term). Hours to be arranged.*

Investigates social controversies in the 1990s: how society should respond to poverty, welfare, out of wedlock births, homelessness, crime and drugs. Examines how particular responses are shaped by values and policy issues; special emphasis on what social science research has learned about poverty and related behaviors, and how such knowledge has been incorporated into the public discourse.

*Note:* Expected to be given in 2000–01.



**[\*Sociology 168. Sociology of Law: Conference Course]**

Catalog Number: 8326

*Kenneth T. Andrews*

*Half course (spring term). Hours to be arranged.*

Examines law from a sociological perspective. Particular attention will be given to the historical patterns that have shaped law as a social institution and profession. The relationship of law to politics, culture, and the economy will be studied. Specific topics include the role of law in shaping gender, work, race/ethnicity, and social inequality.

*Note:* Expected to be given in 2000–01.

**\*Sociology 181. Contemporary Australian Society: Conference Course**

Catalog Number: 4767

*Peter M. Beilharz (LaTrobe University)*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Establishes and examines images and realities of Australia, working through popular and high cultural representations, political economy, and culture, and focusing on the twentieth century. Begins with problems of exploration and imperialism and the “new world experience”; shifts to Federation in 1901 via the “Social Laboratory”, the wage earners’ welfare state, protection and laborism. Examines the transformation of these institutions of historic settlement consolidated after the 1940s finally under Labor into the 1980s and Liberals into the 1990s. Explores the nature of civil society in modern Australia, its achievements and dark sides, and its responses to globalization or cross-cultural traffic between the antipodes and the United States.

**[\*Sociology 183. Prejudice, Politics, and Society: Conference Course]**

Catalog Number: 1686 Enrollment: Limited to 20

*Lawrence D. Bobo*

*Half course (spring term). Hours to be arranged.*

This course develops a sociological analysis of the part that race, as well as racial and ethnic prejudice, plays in politics and larger social dynamics. Models developed in social psychology and political science are also considered in detail. Specific topics of interest include public opinion, voting, and policy making with respect to issues directly concerned with race such as affirmative action, minority electoral representation, and immigration. Also examined is whether similar dynamics influence the politics of crime, welfare reform, and general social spending.

*Note:* Expected to be given in 2000–01.

**[Sociology 184a. The Origins of Freedom]**

Catalog Number: 0478

*Orlando Patterson*

*Half course (fall term). Hours to be arranged.*

Examines the origins, meaning and social significance of freedom in the ancient and medieval West. Attempts to understand the nature of freedom by examining what it has meant to different classes of persons through the major periods of the pre-modern West. Special attention is given to the role of slavery, political and class conflict, and gender relations, as well as Christianity, in the formation and use of freedom as an ideology. The course strongly emphasizes the interplay of socio-economic forces and ideas through analysis of selected primary texts and secondary



sources.

*Note:* Expected to be given in 2000–01.

**[Sociology 184b. Freedom and Society in the Modern World]**

Catalog Number: 4506

*Orlando Patterson*

*Half course (fall term). Hours to be arranged.*

A comparative and historical examination of the meanings and experiences of freedom from early modern times to the present. Freedom is viewed and treated less as an idea and more as a cultural chord with institutional implications. The course examines the ways in which social context and political conflicts led to the reconstruction of the medieval heritage of freedom during critical periods of Western history from renaissance Florence down to contemporary America. It concludes with an overview of the spread of freedom in the non-Western world, and the problems of reconciling it with development strategies and traditional values.

*Note:* Expected to be given in 2000–01.

**\*Sociology 186. Contemporary European Social Theory: Conference Course**

Catalog Number: 7908

*Libby Schweber*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Examines recent approaches to social theory with special focus on the problems of culture and structure, power and knowledge, processual models and the transition from modernity to post-modernity. Authors to be covered will include: Zygmunt Bauman, Frederik Barth, Pierre Bourdieu, Michel Foucault, and Norbert Elias.

*Prerequisite:* Sociology 97, Social Studies 10 or equivalent.

**\*Sociology 188. Lines that Divide: Race, Class, Gender, and Ethnicity in the Ethnographic Tradition: Conference Course**

Catalog Number: 6496 Enrollment: Limited to 25

*Katherine Newman (Kennedy School)*

*Half course (fall term). W., 1–3. EXAM GROUP: 6, 7*

The ethnographic tradition in sociology — its methods, substance, and theoretical contributions — will be explored through the intensive reading of qualitative literature on African-American communities in poverty, working and middle class families in the throes of economic change, elites confronting meritocratic ideologies, women and men contending with changing definitions of gender roles, and ethnic groups struggling to define the meaning (or loss of significance) of their national origins. Race, class, gender, and ethnicity will be examined as theoretical constructs, sources of division, and avenues of potential integration in American culture.

Attention will be given to methods of data collection, analysis, and argument in community studies.

**[\*Sociology 189. Culture and Race in the Development of American Society: Conference Course]**

Catalog Number: 5208

*Orlando Patterson*

*Half course (fall term). Hours to be arranged.*



The role of culture in the development and continuing crisis of race in America is an extremely controversial subject. This course will attempt to clarify the crucial issues in the use of culture as a mode of explanation. We will examine the role of race and culture in the development of American civilization from the period of slavery to the present, and the ways in which cultural factors both enhanced and constrained opportunities for, and the internal resources of, African-Americans.

*Note:* Expected to be given in 2000–01.

**[\\*Sociology 192. Elites and Organizations: Conference Course](#)**

Catalog Number: 2408 Enrollment: Limited to 15

*Francie L. Ostrower*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines basic themes and approaches in the study of social elites, considering the structure, culture, power, and transformation of elite groups. Particular attention is given to the relationship between elites and organizations, including the organizational bases of elite power, the impact of elites on organizations, leadership and organizational change, boards of directors, elites and interorganizational relations, the relationship between social class and organization, and informal elite social organization and bureaucracy. Examines current views about place of the “elite” and “upper class” concepts, as well as recent directions in elite research.

**[\*Sociology 194. Civic Engagement in American Democracy: Conference Course]**

Catalog Number: 8128 Enrollment: Limited to 15

*Theda Skocpol*

*Half course (spring term). Hours to be arranged.*

Reviews theoretical debates and current research about changing patterns of civic engagement, political participation, and group activity in U.S. democracy. Examines historical patterns and transformations since the 1950's. Case studies will be examined, including fraternal associations, the PTA, labor movements, the Civil Rights and environmental movements, the AARP, and the Christian Coalition. Each member will do research, defining a new project or continuing one already underway.

*Note:* Expected to be given in 2000–01. For juniors, seniors, and graduate students.

***Cross-listed Courses***

**[Afro-American Studies 12. Topics in Afro-American History and Society: Seminar](#)**

**[\\*Afro-American Studies 196. Sociological Perspectives on Racial Inequality in America: Seminar](#)**

**[Afro-American Studies 196z. Race, Segregation and Inequality]**

**[\\*Afro-American Studies 197. Race, Class and Poverty in Urban America: Seminar](#)**

**[Psychology 15. Social Psychology](#)**

**[Psychology 1505. Intergroup Relations]**

**[Women's Studies 132. Shop 'Til You Drop: Gender and Class in Consumer Society](#)**

***Primarily for Graduates***



**\*Sociology 203a. Methods of Quantitative Sociological Research I**

Catalog Number: 3315

*Christopher Winship*

*Half course (fall term). W., F., 10–12. EXAM GROUP: 3, 4*

Focuses on a matrix approach to regression analysis with an emphasis on the assumptions behind OLS and the consequences of their violation. Extensions are studied including instrumental variables, generalized least squares, probit and logit models, survival analysis, and hierarchical linear models. Provides an introduction to systems of equations, including path models and simultaneous equations.

*Note:* Required of first-year graduate students in Sociology.

*Prerequisite:* Sociology 202 or equivalent.

**[\*Sociology 203b. Methods of Quantitative Sociological Research II]**

Catalog Number: 1860

*Aage B. Sørensen*

*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, or event history analysis. Includes an introduction to time series analysis. Both statistical theory and practical applications will be covered.

*Note:* Expected to be given in 2000–01. Intended primarily for graduate students in Sociology.

*Prerequisite:* Sociology 203a.

**[\*Sociology 203c. Analysis of Categorical Data]**

Catalog Number: 2951

*Christopher Winship*

*Half course (spring term). Hours to be arranged.*

Provides an introduction to methods for the multivariate analysis of categorical data. Covers loglinear analysis for the applied practitioner. Additional topics include logit and probit analysis, models for ordinal data, multinomial and conditional logit models, path analysis for categorical variables, and latent class analysis. Emphasis on empirical applications in the social sciences.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Sociology 203a or permission of instructor.

**\*Sociology 204. Sociological Theory: Seminar**

Catalog Number: 6189

*Libby Schweber*

*Half course (fall term). M., 10–12. EXAM GROUP: 3, 4*

A survey and critical analysis of 19th century social theory. The aim of the course is to introduce students to “classical” authors and to the use and interpretation of social theory. Authors include Comte, Mill, Marx, Durkheim, and Weber. Readings examine their notions of law, explanation and causality; their theories of modernity and their moral/political projects for sociology.

*Note:* Required of first-year graduate students in Sociology.

**\*Sociology 207. Gender and Sexuality: Seminar**

Catalog Number: 4080



*David J. Frank*

*Half course (spring term). W., 1–3. EXAM GROUP: 6, 7*

Argues that “gender” and “sexuality” are neither fixed in reality nor free floating in space but rather institutionalized in a limited set of dynamic cultural and organizational arrangements, such as the state and science. The configuration of these arrangements sets the boundaries within which gender and sexuality have meaning and motivate action in society at large.

**\*Sociology 208. Contemporary Theory and Research: Seminar**

Catalog Number: 6080

*Aage B. Sørensen*

*Half course (spring term). M., 2–4. EXAM GROUP: 7, 8*

Develops tools for the construction of sociological theory. Compares major contemporary sociological theories and their applications to the study of social organization. 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**

Catalog Number: 1198

*Francie L. Ostrower*

*Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17*

Examines the main approaches and methodological assumptions in the analysis of non-numerical data by comparative, interpretive, and historical sociologists. Reviews methods of linking and presenting varied data bases and main criteria for establishing validity and reliability in the analysis of field notes, archival, published, and other kinds of qualitative 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 Lieberson*

*Half course (spring term). W., 3–5. EXAM GROUP: 8, 9*

Special problems occur in the interpretation of results based on non-experimental data — whether they are from surveys, historical research, field work, or other sources. These issues apply to both quantitative and qualitative studies, and are different from those resolved through statistical solutions. We consider the assumptions employed, their appropriateness, and various solutions.

**[\*Sociology 212. Methods of Historical Macroanalysis ]**

Catalog Number: 3236

*Theda Skocpol*

*Half course (fall term). Hours to be arranged.*

Surveys methods and practices of historical and comparative-historical research in sociology and political science, using exercises and discussions of a variety of contemporary studies. Critically examines the relationships among questions for investigation, research design, and sources of evidence. Various styles of empirical research will be considered. Participants may use this



course as occasion for developing research designs for their own projects.

*Note:* Expected to be given in 2000–01. Open only to graduate students.

**\*Sociology 220. Globalization: Seminar**

Catalog Number: 0150

*David J. Frank*

*Half course (fall term). W., 3–5. EXAM GROUP: 8, 9*

Argues that globalization is pervasively consequential for contemporary social life. Begins by exploring the substance of globalization, its origins and its economic, political, and cultural dimensions. Then looks at globalization's consequences, particularly for nation-states, organizations, and persons.

**[\*Sociology 221. Immigration, Identity and Assimilation: Seminar]**

Catalog Number: 9699 Enrollment: Limited to 15

*Mary C. Waters*

*Half course (spring term). Hours to be arranged.*

Examines the experiences of immigrants who have arrived in the United States since 1965 and their children--the second generation. Patterns of economic, political, and social assimilation, as well as ethnic identity formation will be reviewed. Recent theories and empirical research on the link between identity and economic assimilation will be discussed.

*Note:* Expected to be given in 2000–01.

**\*Sociology 224. Organizational Analysis**

Catalog Number: 8202

*Peter V. Marsden*

*Half course (fall term). M., 3–5. EXAM GROUP: 8, 9*

Surveys sociological perspectives on organizations and environments. Reviews classical and contemporary theories of bureaucracy and organization-environment relations. Attention to perspectives including ecological, institutional, resource dependence, transaction-cost, agency theory, learning theory, and organizational culture. Examination of phenomena at multiple levels from the establishment to the organizational network or field.

**[\*Sociology 227. Political Sociology: Seminar]**

Catalog Number: 6042

*Kenneth T. Andrews*

*Half course (fall term). Hours to be arranged.*

Examines the field of political sociology including the theoretical and programmatic statements of classical theorists and recent debates in the field. A wide range of substantive topics will be covered including the state and economy, revolution and warfare, social inequality and policy, democracy and political participation, social movements and interest groups.

*Note:* Expected to be given in 2000–01.

**[\*Sociology 232. Social Movements: Seminar]**

Catalog Number: 1333

*Kenneth T. Andrews*

*Half course (spring term). Hours to be arranged.*



Introduces major theoretical approaches to the study of social movements and explores central topics of contemporary research including protest cycles, the social and cultural basis of movement participation, countermovements, repression and the state, the internal organization of movements, and the consequences of movements. Illustrative studies will be examined to reflect on the strengths and limitations of various approaches.

*Note:* Expected to be given in 2000–01.

**[\*Sociology 239. Racial Identity, Politics, and Public Policy: Seminar]**

Catalog Number: 3877

*Lawrence D. Bobo*

*Half course (fall term). Hours to be arranged.*

This course will examine theory and research on the contemporary dynamics of race and ethnicity in an increasingly multicultural U.S. Topics to be covered will include work on racialization and racial formation; whiteness and white identity; identity formation and change among Blacks, Latinos, and Asians; disputes among and between racial minority groups (e.g., African-American and Korean-American conflict); political disputes over welfare reform, affirmative action and immigration policy; and the modern identity based challenges for progressive political coalitions. Course materials will span research by sociologists, political scientists, and social psychologists.

*Note:* Expected to be given in 2000–01.

**\*Sociology 249. Race and Public Policy: Seminar**

Catalog Number: 5727

*Orlando Patterson*

*Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18*

The seminar will examine the socio-economic and cultural dimensions of racial inequality in the United States. Both the external and institutional factors accounting for inequality as well as the internal problems of black social life and culture will be examined. We will also explore the political and economic consequences of various policies aimed at reducing inequality such as affirmative action. Particular attention will be given to family structure and gender relations and to the policies relating to them. All points of view will be considered.

**[\*Sociology 250. Culture: Current Issues in the Study of Taste: Seminar]**

Catalog Number: 4641

*Stanley Lieberson*

*Half course (fall term). Hours to be arranged.*

Reviews and evaluates both theoretical and empirical efforts to understand the social context in which tastes operate in daily life. Focus is on existing debates and new directions in this area. Although not required, students can use the seminar to develop their current projects in this area, or to develop new ones.

*Note:* Expected to be given in 2000–01.

**[\*Sociology 251. Gender and Organizations: Seminar]**

Catalog Number: 4645

*Barbara F. Reskin*

*Half course (fall term). Hours to be arranged.*



Examines the role of gender in work organizations, with an emphasis on current research. Considers the effects of organizational practices on women's and men's work opportunities and rewards, factors that affect organizations' sex composition, and the effects of sex composition of organizational outcomes.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Graduate standing and a graduate level class in multivariate statistics.

**[\*Sociology 255. Social Stratification: Seminar]**

Catalog Number: 3839

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*Half course (spring term). Hours to be arranged.*

Examines recent research by sociologists and economists on how family background, race, gender, cognitive skills, schooling, age, and experience affect economic status. Also contrasts economic and sociological explanations for the overall level of economic inequality.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Sociology 203a or equivalent.

**\*Sociology 265. New Institutionalism in Asia: Seminar**

Catalog Number: 5507

*Ezra F. Vogel*

*Half course (spring term). Th., 4–6.*

Explores the nature of new institutions in Asia above the level of nation state, including formal organizations like APEC and ASEAN, new intellectual communities formed by various specialists from different Asian countries, and links between NGOs.

**\*Sociology 271. Sociology of Culture**

Catalog Number: 5401

*Jason A. Kaufman*

*Half course (fall term). Th., 7–9 p.m.*

A review of contemporary themes and approaches in the sociology of culture. Topics will include theories of media and mass society; high-brow and low-brow in cultural consumption; class, culture, and power; the production of culture; neo-institutionalism and the dissemination of schema; culture and cognition; incorporating culture in macro-theories of social change; and current methodological strategies for the empirical study of cultural processes.

**\*Sociology 275. Social Network Analysis**

Catalog Number: 6899

*Peter V. Marsden*

*Half course (spring term). M., 4–6. EXAM GROUP: 9*

Teaches concepts and methods for studying social structure in terms of social relationships or social networks. Approaches to collection of network data; issues of data quality; analysis of total network data via graph-theoretic techniques, multidimensional scaling, block models and related methods; analysis of survey network data on interpersonal environments of individuals.

**\*Sociology 290. Sociological Field Methods**

Catalog Number: 4613



*Gwendolyn Dordick*

*Half course (fall term). W., 12–2. EXAM GROUP: 5, 6*

An intensive exploration of strategies, practices, and problems in the sociological investigation of natural settings with a principal focus on gaining practical experience in the field. In addition to smaller exercises, students will complete two significant research projects. Classroom time will be spent analyzing and debriefing issues that arise in the course of conducting these projects.

*Note:* Open to all graduate students 2nd year and above.

**\*Sociology 296a. Proseminar on Inequality and Social Policy I**

Catalog Number: 6231 Enrollment: Limited to 18

*Christopher Jencks (Kennedy School)*

*Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

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:* Jointly offered with the Kennedy School as HLE-511.

**\*Sociology 296b. Proseminar on Inequality and Social Policy II**

Catalog Number: 0193 Enrollment: Limited to 18

*Christopher Jencks (Kennedy School)*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

Deals with the reasons for changes in economic inequality, including changes in the supply and demand for skills, employment patterns, living arrangements, residential segregation by race and class, discrimination against women and minorities, immigration, the growth of the welfare state, and recent changes in welfare regulations.

*Note:* Jointly offered with the Kennedy School as HLE-512.

**\*Sociology 297. Workshop on Social Policy**

Catalog Number: 0137

*Katherine Newman (Kennedy School)*

*Half course (fall term). M., 2–4. EXAM GROUP: 7, 8*

Students who have completed Sociology 296a or 296b may enroll in this workshop where they will develop their papers from the previous year's course into professional presentations and publishable articles, critique fellow student papers across disciplines, and discuss at length the presentation of national experts who appear in the seminar on inequality and social policy.

*Note:* Jointly offered 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.

***Cross-listed Courses***

**Celtic 208. Early Irish Society**

**\*Government 3006. Research Workshop in Comparative Politics: The Performance of Democracies**

**\*Government 3009. Research Workshop in Applied Statistics**

**[\*Psychology 2630. Social Behavior in Organizations: Seminar]**



### ***Graduate Courses of Reading and Research***

#### **\*Sociology 300. Workshop on “Race,” Minority Studies and Public Policy**

Catalog Number: 6654

*Orlando Patterson 1091*

*Half course (spring term). Th., 12–2.*

The workshop will be 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.

#### **\*Sociology 301. Special Reading and Research**

Catalog Number: 4017

*Kenneth T. Andrews 3604, Peter M. Beilharz (LaTrobe University) 2146, Daniel Bell 1594, Lawrence D. Bobo 2919 (on leave 1999-00), Mariko Chang 1563, Gwendolyn Dordick 3011, David J. Frank 1893, Mary-Jo DelVecchio Good (Medical School) 7721, Christopher Jencks (Kennedy School) 2160, Jason A. Kaufman 2147, Stanley Lieberson 1937 (on leave fall term), Peter V. Marsden 1797, Katherine Newman (Kennedy School) 2651, Francie L. Ostrower 2591, Orlando Patterson 1091, Barbara F. Reskin 3640 (on leave 1999-00), Libby Schweber 3018, Theda Skocpol 1387, Aage B. Sørensen 7967, Ezra F. Vogel 2273 (on leave fall term), Mary C. Waters 1498, and Christopher Winship 3189*

#### **\*Sociology 302. Direction of Doctoral Dissertations**

Catalog Number: 5021

*Members of the Department*

Members of the Department and others listed under Sociology 301 direct doctoral dissertations.

#### **\*Sociology 305. Teaching Practicum**

Catalog Number: 0259

*Mary C. Waters 1498 and staff*

*Half course (fall term). F., 2–4.*

*Note:* Normally limited to Teaching Fellows and Section Leaders in Sociology. Attendance at first meeting is required.

#### **\*Sociology 306r. Colloquium in Sociology**

Catalog Number: 4818

*Libby Schweber 3018 and Christopher Winship 3189*

*Half course (fall term; repeated spring term). F., 12–2.*

A seminar for advanced graduate students that provides a forum for presentation of their research, especially dissertation research. Only graduate students in sociology may register for credit. Students registered for credit must make a seminar presentation during the term.

#### **\*Sociology 310r. Colloquium in Social Movements, Politics, and Religion**

Catalog Number: 1316

*Kenneth T. Andrews 3604*

*Half course (fall term; repeated spring term). Hours to be arranged.*



Bi-weekly colloquium for graduate students that examines social movements, politics and religion. Students will participate in meetings and present original research.

## South Asian Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on South Asian Studies*

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*Chair*)  
Ali S. Asani, Professor of the Practice of Indo-Muslim Languages and Culture  
John B. Carman, Parkman Professor of Divinity and Professor of Comparative Religion (*Divinity School*)  
Pramod Chandra, George P. Bickford Professor of Indian and South Asian Art  
Diana L. Eck, Professor of Comparative Religion and Indian Studies  
William F. Fisher, Associate Professor of Anthropology and of Social Studies (*on leave fall term*)  
William A. Graham, Jr., Professor of the History of Religion and Islamic Studies  
Charles Hallisey, John L. Loeb Associate Professor of the Humanities  
Stephanie W. Jamison, Assistant Professor of Sanskrit and Indian Studies (*on leave spring term*)  
Jay H. Jasanoff, Diebold Professor of Indo-European Linguistics and Philology  
Sheila S. Jasanoff, Professor of Science and Public Policy (*Kennedy School, Public Health*)  
Devesh Kapur, Assistant Professor of Government (*on leave spring term*)  
Arthur Kleinman, Professor of Medical Anthropology in the Faculties of Medicine and Arts and Sciences  
C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology  
Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science  
John H. Mansfield, John H. Watson Jr., Professor of Law (*Law School*)  
Stephen A. Marglin, Walter S. Barker Professor of Economics  
Richard H. Meadow, Senior Lecturer on Anthropology  
Pratap Bhanu Mehta, Associate Professor of Government and of Social Studies  
Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)  
Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature  
V. Kasturi Rangan, Professor of Business Administration (*Business School*)  
Peter P. Rogers, Gordon McKay Professor of Environmental Engineering  
Frank E. Vogel, Assistant Professor of Law (*Law School*)  
Calvert Watkins, Victor S. Thomas Professor of Linguistics and the Classics  
Jeffrey G. Williamson, Laird Bell Professor of Economics  
Irene J. Winter, William Dorr Boardman Professor of Fine Arts (*on leave 1999-00*)



Michael Witzel, Wales Professor of Sanskrit

Nur Yalman, Professor of Social Anthropology and of Middle Eastern Studies

The Committee on South Asian Studies is a multidisciplinary group of scholars appointed to coordinate teaching and research on South Asia (Bhutan, Bangla Desh, India, Maldives, Pakistan, Nepal, Sri Lanka, and the 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 sponsors lectures, seminars, conferences, films, and exhibitions on South Asia. Its various interdisciplinary seminars are open to all students and faculty members. There is no separate degree program, but degrees can be sought in the Department of Sanskrit and Indian Studies, which offers undergraduate concentrations in both Sanskrit, and Indian Studies. Advanced degrees (A.M., Ph.D.) are only offered in Sanskrit and Indian Studies combined, requiring the student to study advanced Sanskrit. Other departments and programs affiliated with the South Asia Committee may also offer degrees; applicants should contact those departments directly.

The courses listed below deal directly or indirectly with the study of South Asia. A more detailed description of these courses may be found in this catalog under the appropriate department or committee. Other relevant courses are listed in the catalogs of the schools of Business, Divinity, Education, Public Health, Law, and the Kennedy School of Government.

Anthropology [145], [152], 205a, 205b, 311, 323, 324

Comparative Literature 207

Economics [1361], 1366, [1368], 1390, 2390b, 2390d

History of Art and Architecture [18d], [181y], [183k], 183m, [284]

Hindi, see Urdu 101, 102, 103r, 104, 300

History of Science [212]

Indian Studies 91r, 98r, 99, 111, 205a, 205b, [206], [211], [215hf], [216], 302

Linguistics [122], [220a]

Literature and Arts [C-18]

Nepali 101

Pali [101a], [101b], 102a, [102b], 103r, 300

Persian 140ar, 140br

Religion 13, [14], 1025, [1026], [1551], [1555], 1585, 1600, 1605, [2660]



Sanskrit 98r, 101a, 101b, 102a, 102b, 200ar, 200br, [201ar], [202r], [206r], [207a], [207b], [208r], 214, 215, 301, 310

Social Analysis 36

Tibetan and Himalayan Studies 101a, 101b, [103], 104a, 104b, [105a], [105b], 106, 200a, [201], [202], 203a, [207a], [210], 212, 300, 302, 305

Thai [101a], [101b], 102a, 102b, 103r, 300 Urdu 101, 102, 103r, 104, 300

Visual and Environmental Studies 154ar

*At Harvard Law School:* Seminars: Law and Religion in India; Comparative Law: Islamic Contract Law; Comparative Law: The Islamic Legal System

## Special Concentrations

### **AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION**

#### *Faculty of the Committee on Degrees in Special Concentrations*

Anthony G. Oettinger, Gordon McKay Professor of Applied Mathematics and Professor of Information Resources Policy (*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*)

Nancy Kleckner, Professor of Biochemistry and Molecular Biology

Stephen M. Kosslyn, Professor of Psychology

Arthur L. Loeb, Senior Lecturer on Visual and Environmental Studies

Robb Moss, Rudolf Arnheim Lecturer on Filmmaking

Sandra Naddaff, Senior Lecturer on Literature

Hilary Putnam, Cogan University Professor

Peter P. Rogers, Gordon McKay Professor of Environmental Engineering

Otto T. Solbrig, Bussey Professor of Biology

Philip Stone, Professor of Psychology

Richard Wolf, Assistant Professor of Music



Application forms and information on completing petitions for Special Concentrations may be obtained from the Committee's office, University Hall B-2.

***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.*

*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 semester 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/UNS.

## Statistics

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Department of Statistics*

Carl N. Morris, Professor of Statistics (*Chair*)  
 John Barnard, Assistant Professor of Statistics  
 Arthur P. Dempster, Professor of Theoretical Statistics  
 Mayumi Morimoto, Lecturer on Statistics  
 Donald B. Rubin, Professor of Statistics (*Director of Graduate Studies*) (*on leave spring term*)  
 Clyde H. Schoolfield, Jr., Lecturer on Statistics  
 David van Dyk, Assistant Professor of Statistics (*Head Tutor*)  
 Steve C. Wang, Lecturer on Statistics

#### *Other Faculty Offering Instruction in the Department of Statistics*

Frederick Mosteller, Professor of Mathematical Statistics, (*Emeritus*), (*FAS*), Roger Irving Lee  
 Professor of Mathematical Statistics (*Public Health*) (*Emeritus*)  
 Bernard Rosner, Professor of Medicine (*Medical School*)  
 Alan Zaslavsky, Associate Professor of Statistics (*Medical School*)

In 1999–2000, the Statistics Department offers four courses at the introductory level (below Statistics 110). Statistics 100 and 101 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 home page, <http://fas-www.harvard.edu/~stats/>.



***Primarily for Undergraduates***

**\*Statistics 91r. Supervised Reading and Research**

Catalog Number: 6641

*David van Dyk 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

*David van Dyk 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

*Clyde H. Schoolfield, Jr.*

*Half course (fall term; repeated spring term). M., W., F., at 11, and a section meeting 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.

**Statistics 101. Introduction to Quantitative Methods**

Catalog Number: 5128

*Steve C. Wang*

*Half course (fall term). M., W., F., at 11, and a section meeting to be arranged. EXAM GROUP: 4*

Covers the same topics as Statistics 100. Emphasizes the analysis of variance, applied in experimental fields such as psychology and other behavioral sciences.

*Note:* Only one of the following courses may be taken for credit: Statistics 100, 101, 104.

**Statistics 102. Fundamentals of Biostatistics**

Catalog Number: 0266

*Bernard Rosner (Medical School)*



*Half course (spring term). M., W., F., at 11, and section meeting 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.

### **Statistics 104. Introduction to Quantitative Methods**

Catalog Number: 4582

*Mayumi Morimoto*

*Half course (fall term). M., W., F., at 11, and a section time 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.

### **Statistics 110. Introduction to Probability**

Catalog Number: 0147

*Clyde H. Schoolfield, Jr.*

*Half course (fall term). M., W., F., at 12, and a section meeting to be arranged. EXAM GROUP: 5*

A first course in probability pointed toward applications, for students with some calculus. Models include the normal, binomial, exponential, Poisson and gamma distributions. Topics include expectation, independence, conditioning, generating functions, joint distribution and density functions, and limit laws.

*Prerequisite:* Mathematical preparation at the level of intermediate calculus.

### **Statistics 111. Introduction to Theoretical Statistics**

Catalog Number: 1836

*Steve C. Wang*

*Half course (spring term). M., W., F., at 12, and a section meeting 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 analysis of variance.

*Prerequisite:* Statistics 110 and basic linear algebra.

### **Statistics 139. Regression Analysis**

Catalog Number: 1450

*Steve C. Wang*

*Half course (fall term). Tu., Th., 10–11:30, and a section meeting to be arranged. EXAM GROUP: 12, 13*

An introduction to data analysis using multiple regression. Topics may include model building and diagnostics, graphical checks of assumptions, transformations, multivariate graphics and visualization, exploratory data analysis, tests of significance and confidence intervals, and logistic regression. The course will emphasize analysis and investigation of real datasets using



computer software.

*Prerequisite:* Statistics 100 or equivalent.

### **[Statistics 140. Design of Experiments and Quasi-Experiments]**

Catalog Number: 6306

*Donald B. Rubin*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 16, 17*

Statistical designs for the estimation of the effects of treatments in both controlled experiments and observational studies. Topics include randomization, blocking, fractional replication, covariance adjustment, subclassification, matched sampling, model-based adjustment.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Statistics 100 and 139, or equivalent.

### **Statistics 149. Generalized Linear Models**

Catalog Number: 6617

*John Barnard*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

An introduction to the application and theory of generalized linear models. Emphasis is on understanding models and applying them to data. Topics include likelihood theory, exponential families, model specification, model checking and diagnostics, logistic and ordinal regression, log-linear models, and quasi-likelihood. Applications are drawn from a variety of fields, including medicine, biology, and the social sciences.

*Prerequisite:* Statistics 111 or equivalent and Statistics 139 or equivalent.

### **[Statistics 160. Survey Methods]**

Catalog Number: 2993

*Alan Zaslavsky (Medical School)*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 8, 9*

Methods for design and analysis of sample surveys. Techniques for sample design, with examples from some widely used current surveys. Estimation methods (including calculation and use of sampling weights) and variance estimation methods (including resampling methods). Several guest lectures on nonstatistical aspects of survey methodology such as questionnaire design and validation. Other topics may include variance estimation for complex surveys and estimators, nonresponse, and small-area estimation.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Statistics 111 or 139, or permission of instructor.

### **Statistics 171. Introduction to Stochastic Processes**

Catalog Number: 4180

*Mayumi Morimoto*

*Half course (spring term). M., W., 3:30–5. EXAM GROUP: 8, 9*

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.



### **Statistics 185. Statistical Decision and Forecasting**

Catalog Number: 6788

*David van Dyk*

*Half course (spring term). M., W., F., at 1. EXAM GROUP: 6*

The development of a Bayesian approach to the related problems of decision and forecasting. Decision topics will include utility, loss, decision rules, risk, admissibility of decision rules, and decision theoretic aspects of sequential analysis. Forecasting will be developed through the dynamic linear model and include topics such as sequential analysis and smoothing; models for polynomial trends, seasonal trends, and adjustment for covariates; and forecast intervention, monitoring, and error analysis. Theory and computational methods will be developed with a strong emphasis on applications to a variety of data sets.

*Prerequisite:* Statistics 110 or 139 or equivalent.

***Primarily for Graduates***

### **Statistics 210. Probability Theory and Statistical Inference I**

Catalog Number: 2487

*Carl N. Morris*

*Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Random variables, their distributions and densities. Families and exponential families of distributions. Expectation. Independence, product spaces, and joint distributions. Types of convergence. Limit theorems (weak and strong laws, central limit problem). Conditional probability and expectation, multivariate Normal distribution, particular examples of conjugate, marginal, and conditional distributions. Inequalities, approximations, and stochastic simulation. Sampling distributions, likelihood function, sufficiency, and information.

*Prerequisite:* A course in probability and statistics at least at the level of Statistics 110, 111.

### **Statistics 211. Probability Theory and Statistical Inference II**

Catalog Number: 1946

*Carl N. Morris*

*Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Introduction to statistical inference. Frequency, Bayesian, and decision-theoretic approaches. Likelihood, sufficiency, multivariate Normal distribution, and exponential families. Testing hypotheses and estimation. Maximum likelihood estimation, likelihood ratio tests, linear models, models for frequency data, large and moderate sample approximations, including the delta method.

*Prerequisite:* Advanced calculus, Statistics 210, or equivalent.

### **[Statistics 214. Causal Inference in Statistics and the Social and Biomedical Sciences ]**

Catalog Number: 4042

*Donald B. Rubin*

*Half course (spring term). Hours 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.

*Note:* Expected to be given in 2000–01.

### **Statistics 217. Probabilistic Reasoning and Statistical Practice**

Catalog Number: 6777

*Arthur P. Dempster*

*Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

A discussion of the logic of the statistical inference from R. A. Fisher to belief functions.

### **Statistics 220 (formerly Statistics 220r). Bayesian Data Analysis**

Catalog Number: 6270

*David van Dyk*

*Half course (spring term). M., F., 2–3:30. EXAM GROUP: 7, 8*

Begins with basic Bayesian models, whose answers often appear similar to classical answers, 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. Throughout, emphasis on drawing inferences via computer simulation rather than mathematical analysis.

*Prerequisite:* Statistics 110 and 111.

### **[Statistics 230. Multivariate Analysis]**

Catalog Number: 4626

*John Barnard*

*Half course (fall term). Hours to be arranged. EXAM GROUP: 7, 8*

A survey of multivariate analysis. Normal distribution theory, estimation, and hypothesis testing. Multivariate techniques, including cluster analysis, multidimensional scaling, principal component analysis, discriminant analysis, and multiple regression. These techniques are applied to data sets.

*Note:* Expected to be given in 2000–01.

### **[Statistics 231. Bayesian Time Series]**

Catalog Number: 1687

*David van Dyk*

*Half course (spring term). Hours to be arranged. EXAM GROUP: 8, 9*

A study of the dynamic linear model. Topics may include review of classical time series models, forecasting, smoothing, regression methods, polynomial trend models, seasonal models, and forecast monitoring and intervention. Theory and computational methods will be developed with an emphasis on applications to a variety of data sets.

*Note:* Expected to be given in 2000–01.

### **Statistics 232 (formerly Statistics 332). Incomplete Multivariate Data**

Catalog Number: 4196

*John Barnard*

*Half course (fall term). M., F., 2–3:30. EXAM GROUP: 7, 8*

Methods for handling incomplete data sets with general patterns of missing data, emphasizing likelihood-based and Bayesian approaches. Focus is on the application and theory of iterative



maximization methods, iterative simulation methods, and multiple imputation. Includes coverage of some multivariate tools and theory relevant to missing data problems. Real examples are drawn from a variety of fields, including health sciences, history of science, and government.

*Note:* Expected to be omitted in 2000–01.

*Prerequisite:* A course in probability (Statistics 110-level), a course in theoretical statistics (Statistics 111-level), and knowledge of regression and linear algebra (Statistics 139-level).

### **Statistics 239. Advanced Regression Analysis**

Catalog Number: 7423

*John Barnard*

*Half course (fall term). Tu., Th., 10–11:30, M., 7–9 p.m. EXAM GROUP: 1, 12, 13*

Besides the applications done jointly with Statistics 139, students meet separately to develop the theory (multivariate normal, maximum likelihood, likelihood ratio tests, Gauss-Markov, etc.) of linear models. Students do some of the homework assignments from Statistics 139, but also other assignments that differ and are more advanced. Grading is separate from Statistics 139.

*Prerequisite:* Probability and statistics at the level of Statistics 110 and 111.

### **Statistics 271. Stochastic Processes in Continuous Time**

Catalog Number: 9993

*Arthur P. Dempster*

*Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17*

Modeling and statistical analysis for Gaussian processes governed by stochastic differential equations with applications to control engineering and financial modeling.

### **[Statistics 290. Risk Analysis]**

Catalog Number: 5300

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*Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8*

Rational decision-making under uncertainty, decision trees, subjective expected utility. Risk aversion, decreasing risk aversion, multiple risks. Risk sharing, insurance. Principals and agents. Rare events. Risks to life and health. Statistical models and assessment. Participants give talks and write papers on topics of their choice.

*Note:* Expected to be given in 2000–01.

*Prerequisite:* Statistics 111 or equivalent.

### **Statistics 292hfr (formerly Statistics 292a). Topics in Statistics**

Catalog Number: 0925

*Donald B. Rubin*

*Half course (throughout the year). W., 2–3:30. EXAM GROUP: 7, 8*

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.

### ***Cross-listed Courses***



[Economics 2110a. Quantitative Methods I](#)

[Economics 2140a. Econometric Methods I](#)

[Economics 2140b. Econometric Methods II](#)

[[Economics 2140c. Econometric Methods III: Issues in Applied Econometrics](#)]

[Economics 2140d. Time Series Analysis](#)

[Mathematics 212a. Functions of a Real Variable](#)

[Mathematics 212b. Functions of a Real Variable](#)

### *Graduate Courses of Reading and Research*

#### **\*Statistics 301. Special Reading and Research**

Catalog Number: 4474

*John Barnard 1916, Arthur P. Dempster 2345, Mayumi Morimoto 2505, Carl N. Morris 2178, Frederick Mosteller 2235, Bernard Rosner (Medical School) 4018, Donald B. Rubin 7966 (on leave spring term), Clyde H. Schoolfield, Jr. 2440, Steve C. Wang 2581, Alan Zaslavsky (Medical School) 1927, and David van Dyk 2669*

#### **\*Statistics 302. Direction of Doctoral Dissertations**

Catalog Number: 3382

*John Barnard 1916, Arthur P. Dempster 2345, Carl N. Morris 2178, Bernard Rosner (Medical School) 4018, Donald B. Rubin 7966 (on leave spring term), Alan Zaslavsky (Medical School) 1927, and David van Dyk 2669*

#### **Statistics 311. Recent Advances in Markov Chain Monte Carlo Technology**

Catalog Number: 0826

*David van Dyk 2669*

*Half course (fall term). Th., 2–4.*

Starting with a review of such standard techniques as Data Augmentation, the Gibbs sampler, and Metropolis Hastings, the course will focus on recent research papers on such topics as adaptive rejection sampling, the method of auxiliary variables, simulated tempering, the collapsed Gibbs sampler, marginal and conditional data augmentation, the nested EM algorithm, slice sampling, exact sampling, simulated sintering, reversible jump MCMC, regeneration, and sequential MC methods.

*Prerequisite:* Statistics 220 or equivalent.

#### **\*Statistics 317. Research Seminar**

Catalog Number: 1478

*Arthur P. Dempster 2345*

*Half course (fall term). Hours to be arranged.*

Current research on real time detection, classification and control of dynamic systems from a Bayesian perspective.

#### **[\*Statistics 324r. Parametric Statistical Inference and Models]**

Catalog Number: 3366

*Carl N. Morris 2178*

*Half course (fall term; repeated spring term). Hours to be arranged.*



Considers problems in which it is reasonable to develop separate probability models for data, conditional on a parameter vector, and for the vector of unknown parameters, the latter distribution depending on a few unknown hyperparameters. This leads to hierarchical modeling, with relationships to growth curves, kriging, BLUP, longitudinal data, and empirical Bayes. Robustness, model checking, and likelihood inference are considered. A variety of applications is discussed, including to biostatistics, health services, education, sports, and other fields.

*Note:* Expected to be given in 2000–01.

**\*Statistics 349r. Analysis of Psychological Data: Issues and Examples**

Catalog Number: 4528

*Donald B. Rubin 7966 (on leave spring term)*

*Half course (fall term). Th., 12–2.*

Consulting projects on statistical problems arising in psychological and related research areas. Participants expected to contribute actively to one or more projects.

## Ukrainian Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

#### *Faculty of the Committee on Ukrainian Studies*

Roman Szporluk, Mykhailo Hrushevs'kyi Professor of Ukrainian History and Director of the Ukrainian Research Institute (*Chair*)

Stanislaw Baranczak, Alfred Jurzykowski Professor of Polish Language and Literature (*on leave 1999-00*)

Patricia R. Chaput, Professor of the Practice of Slavic Languages

Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies and Director of the Davis Center for Russian Studies

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature (*on leave spring term*)

Edward L. Keenan, Andrew W. Mellon Professor of History

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.

### *Cross-listed Courses*

**[Comparative Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course]**

**[Government 1203 (formerly Government 2203). Political Transitions in East Central Europe]**

**[History 1511 (formerly History 1537). 19th-Century Ukraine]**

**[History 1512 (formerly History 1541). 20th-Century Ukraine]**

**[History 1515 \(formerly History 1542\). States and Nations: 1905-1991: Conference Course](#)**

**[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 Modern (19th- and 20th-Century) Ukrainian Literature ]**

**[Slavic 166. Russian-Ukrainian Literary Relations in the 19th Century: Conference Course]**

**[Slavic 201. Introduction to East Slavic Languages](#)**

**[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*

Ellen Phelan, Professor of the Practice of Studio Arts in Visual and Environmental Studies  
(*Chair*)

Nayland W. Blake, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)

Deborah Bright, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)

Giuliana Bruno, Professor of Visual and Environmental Studies

Jim Dow, Visiting Lecturer on Visual and Environmental Studies

Stephen Ellis, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)

Alfred F. Guzzetti, Osgood Hooker Professor of Visual Arts (*on leave fall term*)

Carol Hepper, Visiting Lecturer on Visual and Environmental Studies (*fall term only*)

Chris Killip, Professor of Visual and Environmental Studies

David Larcher, Visiting Professor of Visual and Environmental Studies (*fall term only*)

Peik Larsen, Lecturer on Visual and Environmental Studies (*on leave spring term*)

Annette Lemieux, Visiting Lecturer on Visual and Environmental Studies

Arthur L. Loeb, Senior Lecturer on Visual and Environmental Studies

Ross S. McElwee, Visiting Lecturer on Visual and Environmental Studies

Nancy Mitchnick, Rudolph Arnheim Lecturer on Studio Arts (*Head Tutor*)

Robb Moss, Rudolph Arnheim Lecturer on Filmmaking

William P. Reimann, Senior Preceptor in Visual and Environmental Studies

Richard P. Rogers, Senior Lecturer on Visual and Environmental Studies (*on leave spring term*)

Françoise Romand, Visiting Lecturer on Visual and Environmental Studies

Peter Schjeldahl, Visiting Lecturer on Visual and Environmental Studies

John R. Stilgoe, Robert and Lois Orchard Professor in the History of Landscape Development

Paul Stopforth, Visiting Lecturer on Visual and Environmental Studies

Robert V. Storr, Visiting Lecturer on Visual and Environmental Studies (*fall term only*)

Patrick Strzelec, Rudolph Arnheim Lecturer on Studio Arts

Elaine Sturtevant, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)

Billy Sullivan, Visiting Lecturer on Visual and Environmental Studies (*fall term only*)

Wendy Tilby, Visiting Lecturer on Visual and Environmental Studies

Grahame Weinbren, Visiting Lecturer on Visual and Environmental Studies (*spring term only*)

### *Other Faculty Offering Instruction in the Department of Visual and Environmental Studies*

J. Michael Griggs, Technical Director of the Loeb Drama Center and Lecturer on Dramatic Arts

Isaac Julien, Visiting Lecturer on Afro-American Studies and on Visual and Environmental Studies (*spring term only*)

Anton Kaes, Visiting Professor of German (*University of California, Berkeley*)

Linda Norden, Lecturer on Visual and Environmental Studies



Many courses in Visual and Environmental Studies are subject to limitation of enrollment. No pre-enrollments are accepted; apply at first class meetings. VES concentrators in studio courses are expected to attend the Thursday evening lectures. Ordinarily courses numbered 1-10 precede higher numbered two-digit courses. Admission to all three-digit courses is by permission of the instructor. It is recommended that Visual and Environmental Studies concentrators complete at least 3 two-digit courses by the end of the sophomore year. Attention is also called to courses listed in the catalog of the Graduate School of Design and the MIT Institute for Advanced Visual Studies.

*Primarily for Undergraduates*

**\*Visual and Environmental Studies 2aar. Designing for the 21st Century: Beginning Studio Course**

Catalog Number: 5004 Enrollment: Limited to 12

*Annette Lemieux*

*Half course (fall term). Tu., Th., 8:30–11:30. EXAM GROUP: 10, 11, 12*

Through slide presentations, assigned readings, and informal discussions, students will be introduced to design of the 20th century. Using a variety of materials, students will create 2-D design projects that address the different aspects of the visual surface: markmaking, line, proportion, dimensions of space, etc.

**\*Visual and Environmental Studies 3abr. Design in 3-D: Beginning Studio Course**

Catalog Number: 0442 Enrollment: Limited to 12

*Patrick Strzelec*

*Half course (spring term). M., 1–4, Tu., 8:30–11:30. EXAM GROUP: 6, 7, 8*

Students work with a variety of materials to solve specific 3-dimensional problems. The course will be based on spatial thinking that deals with form, perspective, balance, density, and line.

**\*Visual and Environmental Studies 4abr. The Alchemy of Color: Beginning Studio Course**

Catalog Number: 4682 Enrollment: Limited to 12

*Stephen Ellis*

*Half course (spring term). W., 1–5, 6–8. EXAM GROUP: 6, 7, 8*

Color is the most mysterious formal element in visual art and its interaction the most unpredictable and difficult to analyze. To paraphrase Delacroix, painting is the art of turning mud into jewels. We will begin investigating this alchemy by reading in the color theory of Chevreul, Itten, Kandinsky, and Albers. Having established basic principles and vocabulary, we will explore the diverse uses of color in the art of many different cultures and periods. Throughout the term, students will be assigned related projects (in water-based mediums) all of which will culminate in a final project to be designed by the student.

**\*Visual and Environmental Studies 10aar. Fundamentals of Drawing: Studio Course**

Catalog Number: 7057 Enrollment: Limited to 15

*William P. Reimann*

*Half course (fall term). Tu., Th., 8:30–11:30. EXAM GROUP: 10, 11, 12*

Studio problems develop the draftsman's way of knowing through observations, formulation,



and articulation. Class discussions develop visually oriented critical ability. A variety of drawing media are introduced. Outside assignments are a regular part of the course, extending studio projects to encourage independent experiment and individual exploration.

**\*Visual and Environmental Studies 10aaxr. Fundamentals of Drawing/2-D Design: Studio Course**

Catalog Number: 4704 Enrollment: Limited to 15

*Paul Stopforth*

*Half course (fall term). M., W., 9–12. EXAM GROUP: 2, 3, 4*

Using a variety of graphic media this course will develop responses and explore possibilities in the process of drawing. A diverse range of hand made and found objects will function as source material for much of the course, in which observation, structural principles, and expressive procedures will be articulated in the making of drawings. Individual and group discussion will focus on work in progress; occasional slide presentations and museum visits.

**\*Visual and Environmental Studies 10abr. Fundamentals of Drawing: Studio Course**

Catalog Number: 5332 Enrollment: Limited to 20

*William P. Reimann*

*Half course (spring term). Tu., Th., 8:30–11:30. EXAM GROUP: 10, 11, 12*

Same as VES 10aar above.

**\*Visual and Environmental Studies 10b. Intermediate Drawing.: Studio Course**

Catalog Number: 1763 Enrollment: Limited to 20

*William P. Reimann*

*Half course (spring term). Tu., Th., 1–4. EXAM GROUP: 15, 16, 17*

Continuation and extension of VES 10a. Studio problems are viewed against drawing traditions and conventions, raising questions of value and interpretation. Field trips and required independent work demand selectivity and judgement to compose using more complex media. Emphasis on individual growth and cultivation of self-critical ability.

*Prerequisite:* VES 10a or equivalent preparation (to be validated by portfolio presentation and interview).

**[\*Visual and Environmental Studies 15aar. Fundamentals of Printmaking: Studio Course]**

Catalog Number: 8651 Enrollment: Limited to 12

*Peik Larsen*

*Half course (fall term). Hours to be arranged.*

A hands-on investigation of transfer processes and use of printmaking materials. Woodcut, linocut, intaglio, and monotype will be explored mostly in black and white.

*Note:* Expected to be given in 2000–01. No previous printmaking experience required.

**\*Visual and Environmental Studies 15abr. Silkscreen: Beginning Studio Course**

Catalog Number: 0844 Enrollment: Limited to 12

*Annette Lemieux*

*Half course (spring term). Tu., Th., 8:30–11:30. EXAM GROUP: 10, 11, 12*

For the student who is interested in the manipulation of found and original imagery. Students will create monotypes on paper and other surfaces utilizing the silkscreen process. Via slide



presentations the class will be introduced to the work of artists such as Rauschenberg, Warhol, Polke, and others who use the silkscreen process.

**\*Visual and Environmental Studies 20aar. Painting with Attitude: Beginning Studio Course**

Catalog Number: 4153 Enrollment: Limited to 12

*Nancy Mitchnick*

*Half course (fall term). Tu., Th., 1–4. EXAM GROUP: 15, 16, 17*

*Painting with Attitude* is an intense fast-paced beginning painting class. We will work with abstraction as a way to comprehend space in Painting. We will then move to the landscape, the still life, and dramatic narrative interiors with and without figures. The course will be conducted through the practice of painting. Technical demonstrations, slide talks, critique, and discussion will form the basic structure of the class.

**\*Visual and Environmental Studies 20abr. Grounds for Painting: Beginning Studio Course**

Catalog Number: 2204 Enrollment: Limited to 12

*Paul Stopforth*

*Half course (spring term). M., W., 9–12. EXAM GROUP: 2, 3, 4*

Through a range of explorative processes this course will function as a ground within which a variety of painterly possibilities are constructed. The emphasis will be on the practice of painting in developing relationships to material, mark, surface, color, pictorial ambiguity, and meaning. Individual and group discussions will focus on work in progress; there will be occasional slide presentations and museum visits.

**\*Visual and Environmental Studies 30aar. Fundamentals of Sculpture: Studio Course**

Catalog Number: 6594 Enrollment: Limited to 12

*Patrick Strzelec*

*Half course (fall term). M., 1–4, Tu., 8:30–11:30. EXAM GROUP: 6, 7, 8*

Students will explore traditional and non-traditional methods of sculpture making. The focus will be on working in the studio with various materials, techniques, and processes, utilizing a hands-on approach in order to develop a personal vision. Museum and gallery visits will be included, providing a broader context and understanding of the medium.

**\*Visual and Environmental Studies 30abr. Fundamentals of Sculpture: Studio Course**

Catalog Number: 7185 Enrollment: Limited to 12

*Patrick Strzelec*

*Half course (spring term). Tu., 1–4, W., 9–12. EXAM GROUP: 2, 3, 4*

Same as VES 30aar above.

**\*Visual and Environmental Studies 40ar. Fundamentals of Still Photography: Studio Course**

Catalog Number: 2010 Enrollment: Limited to 50

*Chris Killip*

*Half course (fall term). W., at 11, with three hours lab and three hours section each week to be arranged. EXAM GROUP: 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.

**\*Visual and Environmental Studies 40b. Photography: Intermediate Studio Course**

Catalog Number: 6256 Enrollment: Limited to 24

*Chris Killip and Sage Sohier*

*Half course (spring term). M., W., 1–4, or Tu., Th., 1–4. EXAM GROUP: 6, 7, 8*

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 50. Fundamentals of Filmmaking: Studio Course**

Catalog Number: 4907 Enrollment: Limited to 20

*Robb Moss*

*Full course. M., W., 1–5; or Tu., Th., 1–5. EXAM GROUP: 6, 7, 8*

Introductory exercises in live-action filmmaking culminating in the production of a nonfiction film as a group project in the spring term.

**\*Visual and Environmental Studies 51ar (formerly \*VES 51a). Small-Format Video: Introductory Studio Course**

Catalog Number: 7526 Enrollment: Limited to 10

*Alfred F. Guzzetti*

*Half course (spring term). Tu., Th., 1–5, and occasional labs W., 7–10 p.m. EXAM GROUP: 15, 16, 17*

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 (formerly \*Visual and Environmental Studies 51b). Small-Format Video: Studio Course**

Catalog Number: 3838 Enrollment: Limited to 10

*Richard P. Rogers*

*Half course (fall term). Tu., Th., 1–5. EXAM GROUP: 15, 16, 17*

Continuation of VES 51a but may be taken separately with permission of the instructor. Each student plans, shoots, and edits a video tape of his/her design. Readings, screenings, and class exercises augment individual work.

*Note:* Students seeking to enroll should come to the first class meeting with an idea and a production plan for a video tape to be completed in the course.

*Prerequisite:* Prerequisites for admission are VES 51a, or another course in live action film or video.

**\*Visual and Environmental Studies 53a. Film Animation: Beginning Studio Course**

Catalog Number: 1360 Enrollment: Limited to 12

*Wendy Tilby*

*Half course (fall term). M., 7–10 p.m., W., 1–4. EXAM GROUP: 6, 7, 8*

An introduction to a wide range of animation ideas and techniques through screenings,



discussions, and projects. Emphasis will be on concept, aesthetics, and experimentation. Students will produce a series of short works with synchronized sound and learn ways to use frame-by-frame filmmaking as a means of creative expression and communication. Course includes presentations from visiting artists. Drawing skills not necessary.

**\*Visual and Environmental Studies 53b. Film Animation: Intermediate Studio Course**

Catalog Number: 5284 Enrollment: Limited to 12

*Wendy Tilby*

*Half course (spring term). M., 7–10 p.m., W., 1–4. EXAM GROUP: 6, 7, 8*

Each student will complete a short animated film. Emphasis will be on concept, storyboard, projection strategy, and editing. Exploration of animation ideas and techniques through discussions and screenings will continue.

*Prerequisite: VES 53a.*

**\*Visual and Environmental Studies 80abr. Fundamentals of Installation: From Limitation to Creative Challenge. Seminar with Projects.**

Catalog Number: 7202 Enrollment: Limited to 12

*Elaine Sturtevant*

*Half course (spring term). W., 9–12, M., 6–9 p.m. EXAM GROUP: 2, 3, 4*

This course questions and probes the problems, difficulties, challenges, and decisive elements of installation that painting, sculpture, video, and photography students will encounter when exhibiting in galleries, museums, and alternative spaces. Students will undertake installation projects and assignments, lecture and slide presentations, and group and individual analysis and discussion.

*For Undergraduates and Graduates*

**Visual and Environmental Studies 100aar. Dead but Won't Lie Down: Painting Since the Seventies**

Catalog Number: 1651

*Robert V. Storr*

*Half course (fall term). W., at 1, and sections to be arranged. EXAM GROUP: 6*

Too often uncritically defended by its “old believer” advocates, and too often dismissed out of hand by its modernist and post-modernist ideological enemies, painting has often been talked about in terms of gross stylistic generalities without sufficient attention to the complexities of its evolution in the last two decades and more. This class will address some of these overlooked issues and re-examine the reputations and aesthetic dogmas established in the course of painting's multiple deaths and resurrections.

**Visual and Environmental Studies 100abr. Between Modern and Contemporary: Re-thinking Medium**

Catalog Number: 0730

*Linda Norden*

*Half course (spring term). M., W., at 4, and sections to be arranged. EXAM GROUP: 9*

This course will take the idea of a contemporary art survey self-consciously. Two lectures each week: one devoted to slides aimed primarily at visual familiarization; the other organized around



the changing constructions of — and challenges to — the idea of medium and medium-specificity. Slide lectures will also incorporate film and video and will alternate between chronological cross-sections of a given moment, location, or aesthetic/ideological position — to give some sense of historical specificity — and more intensive investigations of selected artists or aspects of an artist's practice. Some classes will focus on important exhibitions and installations. Whenever possible, we will look at actual artwork, drawn from our collections, and visit other galleries or museums.

**\*Visual and Environmental Studies 101abr. Color and Design: Form After Formalism**

Catalog Number: 3347

*Libby Lumpkin*

*Half course (spring term). W., 6–9 p.m. EXAM GROUP: 9*

In the 1960's the terms "color" and "design" disappeared from art discourse. Yet from the Renaissance until the 1960s these terms were central to Western discussions of the ethical aspects of art: color represented the "bodily" or rhetorical aspects of art; design represented the "liberal" or intellectual aspects of art, with ethical priority given to design. Since the 1960s this ethical dichotomy has been reallegorized as a dichotomy between "practice" and "concept." In this class, we will consider the signifying properties of selected readings from antiquity to the present and discuss contemporary works of art that implicitly critique the antiquated denigration of the idea of practice. Students will be expected to participate in class discussions, pass a summary exam, and submit either a paper or a studio project.

**\*Visual and Environmental Studies 107. Studies of the Built North American Environment since 1580**

Catalog Number: 7883 Enrollment: Limited to 40

*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 111aar. Figure Study: Intermediate Studio Course**

Catalog Number: 1265 Enrollment: Limited to 20

*William P. Reimann*

*Half course (fall term). Tu., Th., 1–4. EXAM GROUP: 15, 16, 17*

Emphasis on drawing with excursions into three dimensions. Reviews current and past cultural conventions bearing on figure drawing and their relationship to non-figurative modes of visual discourse. Early focus is first animal and then the human skeleton, progressing to studies from the live model. Other resources and problem sets emphasize study of the formal organization, variants, and vocabulary of osteology and gross topographic anatomy. Other determiners of form will also be examined. Criticism conducted individually and through discussion. Regular outside assignments support class exercises.

*Prerequisite:* VES 10a and 10b, or a second term of drawing. Students applying to the course will be asked for a portfolio of previous work.



**\*Visual and Environmental Studies 120aar. Still Life: Interior/Exterior. Intermediate Studio Course (Painting)**

Catalog Number: 2203 Enrollment: Limited to 12

*Billy Sullivan*

*Half course (fall term). Tu., 6–9 p.m., W., 9–12. EXAM GROUP: 2, 3, 4*

This course will investigate still life as simple dramas of the everyday, emphasizing the psychological aspects as well as the formal. The class will focus on drawing, photography, and painting in the making of still life. Both contemporary and historical examples of this genre will be explored.

**\*Visual and Environmental Studies 120abr. Ideas in Paint: Intermediate Studio Course**

Catalog Number: 8087 Enrollment: Limited to 12

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*Half course (spring term). W., 6–9 p.m., Th., 8:30–11:30. EXAM GROUP: 10, 11, 12*

A studio painting course that will address the issues of light, space, color, and structure in painting. Discussion and Slide presentation, trips to museums, and a few Art Historical texts will form the basis of the class. This course is geared for students beginning to develop their own studio practice.

**\*Visual and Environmental Studies 124or. Objects and Ideas: Intermediate Studio Course (Painting)**

Catalog Number: 8253 Enrollment: Limited to 12

*Nancy Mitchnick*

*Half course (spring term). Tu., Th., 1–4. EXAM GROUP: 15, 16, 17*

An oil painting course that will use the conditions of Still Life Painting to work through the major art movements of the 20th century. We will work primarily from set-ups. Sources from Art and psychoanalysis will play a part as well as assemblage and photo silk screen technique. Realism precise and loosely structured, Surrealism, DaDa, Modernism, Post-Modernism, and Theory related work will inform the process of painting. Palette demonstrations, lecture, slide talks, and critique will be operational. Oil paint will be the primary medium.

**\*Visual and Environmental Studies 124wr. Still Life Watercolor: Intermediate Studio Course**

Catalog Number: 9234 Enrollment: Limited to 12

*Ellen Phelan*

*Half course (spring term). Th., 1–5, 6–8. EXAM GROUP: 15, 16, 17, 18*

This class will investigate and develop fundamental water color techniques as well as observational and depictive skills. The genre of still life will be explored using both historical and contemporary models.

**\*Visual and Environmental Studies 130aar. Exploring Structure/Exposing Content: Intermediate Studio Course (Sculpture)**

Catalog Number: 4186 Enrollment: Limited to 12

*Carol Hepper*

*Half course (fall term). Tu., 1–5, 6–8. EXAM GROUP: 16, 17, 18*

Students will be exposed to contemporary ideas about art through investigations of artists, slide



presentations, and informal discussions. With these studies and the use of a variety of materials and techniques in the studio, students will develop individual approaches to object-making and installation.

**\*Visual and Environmental Studies 130abr. From Gewgaw to Monument: The Secret Life of Objects. Intermediate Studio Course (Sculpture)**

Catalog Number: 4596 Enrollment: Limited to 12

*Nayland W. Blake*

*Half course (spring term). W., 6–9, Th., 8:30–11:30. EXAM GROUP: 2, 3, 4*

This course is intended to be a fuller exploration of the issues, both of content and form, that confront the working sculptor. It is expected that students will have taken VES 30a or an equivalent course, since technical problems will be addressed but will not be the primary focus of the class. Among the ideas students will deal with will be the made versus the found or purchased object, the relation of sculpture to the “transitional objects” (toys, furniture, puppets, clothing), and sculpture’s possibilities for autobiography and historical investigation. While most of the class will consist of assignments, students will be expected to generate, plan, and execute one multi-week project.

**Visual and Environmental Studies 131. Designing for the Stage: Studio Course**

Catalog Number: 1116 Enrollment: Limited to 12

*J. Michael Griggs*

*Half course (fall term). W., F., 1–4. EXAM GROUP: 6, 7, 8*

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.

**\*Visual and Environmental Studies 132. Projects in Stage Design: Studio Course**

Catalog Number: 7533 Enrollment: Limited to 12

*J. Michael Griggs*

*Half course (spring term). M., W., 1–4. EXAM GROUP: 6, 7, 8*

The class will complete projects that explore the techniques of the stage designer. Projects may include large scale scene painting, drafting, and CAD, advanced model making, and working with wood and metal. Some projects will be based on interpretations of dramatic literature to examine both conceptual issues and the practical problems of designing for the stage.

**Visual and Environmental Studies 143r. The Photographer as Auteur: Studio Course**

Catalog Number: 2835 Enrollment: Limited to 12

*Chris Killip*

*Half course (fall term). Tu., Th., 1–4. EXAM GROUP: 15, 16, 17*

Explores the ways 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 and 40b or portfolio presentation.

### **Visual and Environmental Studies 144ar. A History of Photography: The 19th Century**

Catalog Number: 5385

*Jim Dow*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

A one-semester general survey of photography from its pre-history to World War I. All aspects of the medium will be covered, with an emphasis on the vernacular in content and the visual in presentation. In addition to encyclopedic coverage of the period, there will be considerable reference to recent practice (because the fall and spring courses are offered as a continuum). While all students will be expected to do visually-based projects (not necessarily photographic), as well as papers, this class is intended for a university-wide audience.

### **Visual and Environmental Studies 144br. A History of Photography: The 20th Century**

Catalog Number: 6161

*Jim Dow*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

The second semester of a year-long survey of photographic practice from the inception of the medium through contemporary practice. While all aspects of post-World War I photography will be examined exhaustively, there will be considerable emphasis on work done as personal investigation or expression, as this is a 20th century phenomenon. Although all students will be required to do visually-based projects, in addition to papers, this class is intended for a university-wide audience.

### **\*Visual and Environmental Studies 145br. Critical Issues in Contemporary Photographic Practice: Seminar/Workshop**

Catalog Number: 0765 Enrollment: Limited to 12

*Deborah Bright*

*Half course (spring term). M., W., 9–12. EXAM GROUP: 2, 3, 4*

This course will explore a range of topics in contemporary photographic practice (using critical approaches from geography/spatial theory, cultural studies, psychoanalysis, gender, race, and post-colonial studies) to examine the complexities of a late capitalist, informationally fluid, hybridizing, technocratic world whose visible social effects are at once extremely localized and globally dispersed. The course will be structured as a seminar and will comprise an active practice component where students will present short study papers and visual projects that further illuminate the topics raised in our readings and discussions.

### **\*Visual and Environmental Studies 150ar. Film Production: Intermediate Studio Course**

Catalog Number: 4692 Enrollment: Limited to 12

*Françoise Romand*

*Half course (fall term). M., W., 1–4. EXAM GROUP: 6, 7, 8*

Cinema is an art and an industry. It is a way to express social, personal, political and philosophical ideas. During the fall term, students will complete one short 16mm film exercise in either fiction or documentary before beginning work on a longer fiction film script or the planning and research for a documentary, which will be shot and edited in the spring term. They



will direct their own work. They will also be required to take a turn at shooting, sound recording, and editing, normally on other students' films. They will be expected to engage theoretical cinematic issues as well.

*Prerequisite:* VES 50 or equivalent preparation, and one half course in film studies (may be taken concurrently).

**\*Visual and Environmental Studies 150br. Film Production: Intermediate Studio Course**

Catalog Number: 3934 Enrollment: Limited to 12

*Françoise Romand*

*Half course (spring term). M., W., 1–4. EXAM GROUP: 6, 7, 8*

Spring term will be devoted to completing the fiction or documentary film started in the fall term.

*Prerequisite:* VES 150ar.

**\*Visual and Environmental Studies 151ar. Video en Valise: an Electronic Modus Operandi. Intermediate Studio Course**

Catalog Number: 6247 Enrollment: Limited to 10

*David Larcher*

*Half course (fall term). M., 5:30–8 p.m., Tu., 8:30–11:30. EXAM GROUP: 10, 11, 12*

With the increasing sophistication of cheap and accessible image-manipulation software the video medium is fast reaching the point where high-end results are available to everybody at high street prices. With self-reference as frame we will explore its aesthetic validity as externalizing mirror-therapy of the iconic. By the end of the course each student should be able to make Hollywood lookalikes on a Powerbook in the time between the initial sensation of waking and the first spoonful of porridge. Whilst we will screen and analyze work from a variety of areas, this is expected to be a hands-on course. Bring your own angst, iconoclasm, and virtual green card.

**\*Visual and Environmental Studies 151br. Video Workshop: Intermediate Studio Course**

Catalog Number: 7965 Enrollment: Limited to 10

*Grahame Weinbren*

*Half course (spring term). Tu., 6–9, W., 1–5. EXAM GROUP: 7, 8, 9*

How do we make a stream of image and sound material mean what we want it to mean? What part does accident and luck play in the construction of a work, and how much control does a media artist really want? Is it possible to develop structures in time that are not linear? The course will consist of two parts: a study of film, video, and computer works that are innovative or unusual in structure, combined with a series of exercises and experiments focusing on the shape of the sound-image stream. Small projects will lead to the realization of a larger individual or collaborative project, using small-format video and digital media; the techniques include video shooting and editing, and computer manipulation and authoring. Familiarity with computer authoring software is useful but not presumed.

*Prerequisite:* VES 51a or 51b.

**[\*Visual and Environmental Studies 152ar. Women and Film: Production and Criticism]**

Catalog Number: 3161 Enrollment: Limited to 40

*Giuliana Bruno*



*Half course (spring term). Hours to be arranged.*

A survey of film history and aesthetics that highlights the contribution of women, from the origin of cinema to recent production. How do women make, and write about, cinema? How does this change the way we look at, and read, images? Comparative analysis of filmic texts is combined with a study of film history and theory, including feminist theory. This work questions image making in relation to film making, film viewing, and film criticism.

*Note:* Expected to be given in 2000–01.

**\*Visual and Environmental Studies 152br. Italian Cinema**

Catalog Number: 8324 Enrollment: Limited to 40

*Giuliana Bruno*

*Half course (spring term). Th., 10–11:30, with screenings W., at 6:30 p.m. and sections F., at 10 or 11. EXAM GROUP: 12, 13*

Examines the creative impact of Italian cinema in relation to other national cinemas, in the context of Italian culture. What is the place of Italian cinema in film history? What defines a “national” cinema? Begins with the aesthetic and political canons of Neorealism and moves toward contemporary times. Analyzes, among others, the innovative and unconventional views of Rossellini, Fellini, Antonioni, and Visconti, and the film theory and practice of Pasolini, and contemporary independent film.

*Note:* Expected to be omitted in 2000–01.

**\*Visual and Environmental Studies 153br. Bodies That Matter: Race, Gender and Sexuality in Queer Cinema and Fine Art: Lecture/Seminar**

Catalog Number: 7814 Enrollment: Limited to 40

*Isaac Julien*

*Half course (spring term). W., 1–4., with screenings Tu., at 4:30. EXAM GROUP: 6, 7, 8*

This lecture seminar explores new queer cinema, video art, photography, and fine art from the late 1980’s to the present, utilizing cultural theory to look at their construction of race, gender, and sexuality. The seminar will address issues in contemporary film theory ranging from developing perspectives in queer theory to questions of post-colonial identity and third cinema. The films selected will feature documentaries, film essays, and independent cinema from the British avant-garde (Derek Jarman), African-American (Marlon Riggs, Cheryl Dunye), Hong Kong (Wong Kar-Wei), and the video art of Sadie Benning, the photography of Della Grace and Stephen Barker, and the painting and sculpture of Glenn Ligon. Previous background in cultural theory and/or film theory recommended but not required.

**\*Visual and Environmental Studies 155ar. Film Architectures**

Catalog Number: 6864 Enrollment: Limited to 12

*Giuliana Bruno*

*Half course (fall term). W., 2–4, with screenings Tu., at 6:30 p.m. EXAM GROUP: 7, 8*

Employing cultural theory as an interpretive tool, explores the interaction of modernity, urban culture, and cinema. Rather than limiting the discussion to the use of architecture in film, approaches the theoretical relation of these two arts of space. Focusing on the cine city, considers the relation of “motion” pictures to the architectures of transit and the culture of travel. Strong emphasis on readings as well as analysis of case study to pursue research projects and make presentations to the members of the seminar.



*Note:* Expected to be omitted in 2000–01. Active participation in seminarial endeavors is required. Ideally followed with VES 155br.

*Prerequisite:* A course in film theory or the equivalent course in cultural studies.

**\*Visual and Environmental Studies 155br. A Cultural Study of Film: Mapping and Fashioning Space**

Catalog Number: 7760 Enrollment: Limited to 12

*Giuliana Bruno*

*Half course (spring term). W., 2–4, with screenings Tu., at 7:00 p.m. EXAM GROUP: 7, 8*

Looks at “motion” pictures in the moving fields of visual culture and cultural studies with emphasis on the theory and practice of mapping. Questions the space of cinema as an aesthetic, cultural, and socio-sexual space. What is the role of the moving image in the production and appropriation of space? How is the body “fashioned” in film? How does film participate in the changing “architectonics” of visibility, space, and the body? How does it function as a mapping and “fashioning” of (body) space? Strong emphasis on readings as well as analysis of case study to pursue research projects and make presentations to the members of the seminar.

*Note:* Expected to be omitted in 2000–01. Active participation in seminarial endeavors is required. May be taken as a continuation of VES 155ar.

*Prerequisite:* A course in film theory or the equivalent course in cultural studies.

**\*Visual and Environmental Studies 156ar (formerly \*VES 156r). Film Animation Workshop: Intermediate Studio Course**

Catalog Number: 5211 Enrollment: Limited to 12

*Wendy Tilby*

*Half course (fall term). W., 6–8 p.m., and additional hours to be arranged. EXAM GROUP: 9*

Advanced animation ideas, techniques, and exercises which will lead to the conception and pre-production of a short film. Course includes screenings, in-depth discussion of ideas, and presentations from visiting artists.

*Prerequisite:* VES 53a or 53b, or equivalent preparation.

**\*Visual and Environmental Studies 156br. Film Animation: Intermediate Studio Course**

Catalog Number: 3477

*Wendy Tilby*

*Half course (spring term). W., 6–8 p.m., and additional hours to be arranged. EXAM GROUP: 9*

The production and completion of a film with ongoing class discussions and individual review.

*Prerequisite:* VES 156ar or equivalent preparation.

**\*Visual and Environmental Studies 157ar. Film Noir: German Cinema in Exile**

Catalog Number: 8774 Enrollment: Limited to 40

*Anton Kaes (University of California, Berkeley)*

*Half course (fall term). M., W., (F.), at 10, with screenings T., 4-6 p.m. EXAM GROUP: 3*

Deals with classical American films noir of the 1940s made by German directors who had fled the Nazi regime. Stylistically indebted to the expressionist cinema of the 1920s, film noir mediates displaced German anxieties and issues from the disillusioned perspective of emigrants. It also becomes a vehicle with which foreigners probed the dark side of the American dream.

Focus will be on the modernist formal energies and philosophical undercurrents of these films as



well as their place within political and historical formations. Films to be studied include *Double Indemnity*, *Sunset Boulevard*, *Flury*, *The Big Heat*, *Laura*, *Phantom Lady*, and *Detour*.

**\*Visual and Environmental Studies 159ar. The Moving Image: Film and Visual Representation**

Catalog Number: 2874 Enrollment: Limited to 40

*Giuliana Bruno*

*Half course (fall term). Th., 10–11:30, with screenings: W., at 6:30 p.m. and sections F., at 10 or 11. EXAM GROUP: 12, 13*

Offers a survey of issues debated in film theory/history. Focusing on the relation between aesthetics and cultural history, analyzes relevant films which make creative use of film language. Readings range from Benjamin and Eisenstein to contemporary scholars, including feminist theory. Begins with placing cinema and its invention in the realm of the visual and spatial arts. Discusses film as a product of the age of industrialization and conquest, as an element of urban culture, and as a means of imaginary transportation. Presents a variety of films, from early utopias to contemporary times, on the subject of home(land), cityscape, and voyage, providing analytic tools for interpreting the language of cinema.

*Note:* Expected to be omitted in 2000–01. Recommended as preparation for VES 155ar and VES 155br.

**\*Visual and Environmental Studies 160. Modernization in the Visual United States Environment, 1890–2035**

Catalog Number: 6668 Enrollment: Limited to 40

*John R. Stilgoe*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Modernization of the United States 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:* 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 additional 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). Tu., 1–3. EXAM GROUP: 15, 16*

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 private and public policy.

*Note:* 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 175. Design Science: Studio/Seminar**

Catalog Number: 6285

*Arthur L. Loeb*

*Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Explores inductively the arrangement of three-dimensional space. The symmetries and transformations of polyhedra are investigated by constructing and deconstructing study models. Stability, mobility, tensegrity, and dome structures are evaluated, and students are encouraged to apply the principles learned to architectural and sculptural designs. Students experiment with pencils, paper, compasses, straight edges, scissors, exacto-knives, sticks, and joints, to discover concepts before they are named. Rote memorization of definitions is thereby discouraged and seemingly disparate concepts become unified into fundamental principles. Stress on method, experiments, and risk taking. VES 175 and 176 together constitute the fundamental grammar of two- and three-dimensional space.

*Note:* VES 175 and 176 may be taken independently, and in either order. Offered jointly with the Graduate School of Education as T-126.

**\*Visual and Environmental Studies 176. Visual Mathematics: Studio/Seminar**

Catalog Number: 5793

*Arthur L. Loeb*

*Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Concentrates on the fundamental parameters of structure, primarily in two dimensions. Symmetry theory (e.g., designs by M.C. Escher), dynamic symmetry, the golden section, the Fibonacci series, and spirals are presented visually rather than verbally, but nevertheless rigorously. Students experiment with pencils, paper, compasses, straight edges, scissors, exacto-knives, sticks, joints, and computer graphics, to discover concepts before they are named. Rote memorization of definitions is thereby discouraged and seemingly disparate concepts become unified into fundamental principles. Stress on method, experiments, and risk taking. Students are expected to create a portfolio of their own visual exercises. VES 175 and 176 together constitute the fundamental grammar of two- and three-dimensional space.

*Note:* VES 175 and 176 may be taken independently and in either order. Offered jointly with the Graduate School of Education as T-127.

***Related courses of primary interest to VES concentrators:***

**[Afro-American Studies 165z. Art of the African Diaspora: Seminar]**

**[Afro-American Studies 187y. Black Cinema as Genre—From Blaxploitation to Quentin](#)**



**Tarantino**

[Classical Archaeology 145. The Representation of Women in Ancient Greece]

**Foreign Cultures 76. Mass Culture in Nazi Germany: The Power of Images and Illusions**

**French 194. Francophone Film and Cinema**

**German 154. Introduction to German Film Studies**

[German 155. Weimar Cinema: The Laboratory of Modernity]

[German 161. New German Cinema: Oppositional Energies and Utopian Designs]

[History of Art and Architecture 15d. Introduction to Italian Renaissance Painting and Sculpture ca. 1260–1600]

[History of Art and Architecture 16d. Introduction to Northern Renaissance and Baroque Painting and Sculpture]

[History of Art and Architecture 17d. Introduction to 18th-Century European Art]

[History of Art and Architecture 17j. Introduction to Modern Art]

**History of Art and Architecture 70. Introduction to Modern Art and Visual Culture, 1700–1990s**

**History of Art and Architecture 171t. Degas: Beyond Impressionism**

**History of Art and Architecture 171x. The Fifties: Art in Europe and America**

**History of Art and Architecture 173y. Difference from Within: Contemporary Women**

**Artists**

**History of Art and Architecture 177y. Cézanne and his Legacy**

**Literature and Arts B-10. Art and Visual Culture: Introduction to the Historical Study of Art and Architecture**

*Related courses of special interest:*

[Comparative Literature 109. Aesthetic Disgust, Disgusting Aesthetics]

[Comparative Literature 168. Literature and Film]

[Dramatic Arts 30. Design for the Theatre: History and Practice]

**English 117. Medieval Drama: History and Performance**

**English 193d. Deconstruction and Psychoanalysis**

**Folklore and Mythology 100. An Introduction to Folklore & Mythology**

**French 136. Feminist Literary Criticisms**

**French 175. Julia Kristeva: Introduction and Conclusions**

**History of Science 155v. Foucault and the History of Sexuality**

[Literature and Arts C-55. Surrealism: Avant-Garde Art and Politics between the Wars]

**Psychology 13. Cognitive Psychology**

**\*Sociology 150. The Social Underpinnings of Taste**

**Women's Studies 157. Gender and Sexuality in Contemporary Performance**

*Projects and Research*

To apply for the following courses, inquire at the Department office.

**\*Visual and Environmental Studies 97r. Tutorial — Sophomore Year**

Catalog Number: 0450

*Nancy Mitchnick and members of the Department*



*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note: Optional for sophomore concentrators. Letter-graded.*

**\*Visual and Environmental Studies 98r. Tutorial — Junior Year**

Catalog Number: 1411

*Nancy Mitchnick and members of the Department*

*Half course (fall term; repeated spring term). To be arranged.*

*Note: Optional for junior concentrators. Letter-graded. Concentrators in studio art will be required to attend a weekly seminar with Peter Schjeldahl in addition to working with the advisor.*

**\*Visual and Environmental Studies 99. Thesis/Senior Projects -- Senior Year**

Catalog Number: 7531

*Nancy Mitchnick, Peter Schjeldahl and members of the Department*

*Full course. .*

*Note: STUDIO concentrators enrolled in VES 99 are required to attend a weekly seminar with Peter Schjeldahl on Thursdays 7-9 p.m. in addition to working with the advisor. A pragmatic seminar about the world of art for prospective participants. Aims are sophistication and inspiration. Writing assignments emphasize description and style. What is an artist? What does an artist do? What good is it? Who cares? Why? Seminar is not limited to studio concentrators and may be taken for credit by non-VES students by registering for VES 190r. Projects and Research. Presumed to be a full-year course, but may be divided. Permission of Head Tutor and instructor required.*

**\*Visual and Environmental Studies 190r. Projects and Research**

Catalog Number: 8371

*Nancy Mitchnick, Peter Schjeldahl and members of the Department*

*Half course (fall term). Hours to be arranged.*

*Note: Open to a limited number of students who wish to carry out a special project under supervision and who obtain the signature of the Head Tutor and a member of the Department. Applications available in the department office. Letter-graded. Peter Schjeldahl's seminar, listed above, can be taken for credit by non-VES concentrators by registering for VES 190r. Permission of Head Tutor and instructor required.*

## Women's Studies

### AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

*Faculty of the Committee on Degrees in Women's Studies*



Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science and of Women's Studies (*Chair*)  
 Nalini Ambady, Ruth and John Hazel Associate Professor of the Social Sciences  
 Melissa Barry, Assistant Professor of Philosophy  
 Laura Benedetti, John L. Loeb Associate Professor of the Humanities  
 Giuliana Bruno, Professor of Visual and Environmental Studies  
 Julie A. Buckler, Assistant Professor of Slavic Languages and Literatures  
 Peter J. Burgard, Professor of German  
 Bradley S. Epps, Professor of Romance Languages and Literatures  
 Ruth Feldstein, Assistant Professor of History and of History and Literature  
 Melissa Franklin, Professor of Physics  
 Marjorie Garber, William R. Kenan, Jr. Professor of English  
 Beatrice Hanssen, Associate Professor of German  
 Evelyn Brooks Higginbotham, Professor of History and of Afro-American Studies (*on leave 1999-00*)  
 Alice Jardine, Professor of Romance Languages and Literatures  
 Ewa Lajer-Burcharth, Harris K. Weston Associate Professor of the Humanities  
 Christie McDonald, Smith Professor of French Language and Literature  
 Susan Pedersen, Professor of History  
 Ann Wierda Rowland, Instructor in English and American Literature and Language  
 Juliet Schor, Senior Lecturer on Women's Studies (*Director of Studies*)  
 Mary M. Steedly, Professor of Anthropology (*on leave spring term*)  
 Laurel Thatcher Ulrich, Professor of History and Director of the Charles Warren Center for Studies in American History  
 Abby Zanger, Associate Professor of Romance Languages and Literatures

***Affiliated Members of the Committee on Women's Studies***

Margaret Alexiou, George Seferis Professor of Modern Greek Studies and Professor of Comparative Literature (*on leave spring term*)  
 Seyla Benhabib, Professor of Government  
 Henry Louis Gates, Jr., W.E.B DuBois Professor of the Humanities  
 Claudia Goldin, Professor of Economics  
 Kristin Lee Hoganson, Assistant Professor of History and of History and Literature (*on leave 1999-00*)  
 Barbara E. Johnson, Fredric Wertham Professor of Law and Psychiatry in Society  
 Barbara F. Reskin, Professor of Sociology (*on leave 1999-00*)  
 Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value  
 Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature  
 Kay B. Warren, Professor of Anthropology (*on leave 1999-00*)

***Other Faculty Offering Instruction in Women's Studies***

Elizabeth Dodson, Lecturer on Women's Studies  
 Holly Hughes, Visiting Lecturer on Women's Studies



Pauline E. Peters, Lecturer on Anthropology  
Linda Schlossberg, Lecturer on Women's Studies (*Assistant Director of Studies*)  
Sasha Torres, Visiting Assistant Professor of Women's Studies (*Johns Hopkins University*)

***Primarily for Undergraduates***

**\*Women's Studies 91r. Supervised Reading and Research**

Catalog Number: 6225

*Juliet Schor and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

The study of selected topics in women's studies.

**\*Women's Studies 97 (formerly \*Women's Studies 97hf). Tutorial — Sophomore Year**

Catalog Number: 7217

*Linda Schlossberg*

*Half course (fall term). M., 2–4, or W., 2–4; students attend one, not both.*

Introduction to the intellectual history of feminism through classic texts from the early modern period to the late 20th century.

*Note:* Required of, and limited to, Women's Studies concentrators in the fall of their sophomore year.

**\*Women's Studies 98r. Tutorial — Junior Year**

Catalog Number: 8094

*Juliet Schor and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Ordinarily taken by concentrators for one term in the second semester of the junior year.

**\*Women's Studies 99a. Tutorial — Senior Year**

Catalog Number: 6763

*Juliet Schor and staff*

*Half course (fall term). Hours to be arranged.*

*Note:* Both Women's Studies 99a and 99b are required of all concentrators in their senior year.

**\*Women's Studies 99b. Tutorial — Senior Year**

Catalog Number: 5847

*Juliet Schor and staff*

*Half course (fall term; repeated spring term). Hours to be arranged.*

*Note:* Both Women's Studies 99a and 99b are required of all concentrators in their senior year.

***For Undergraduates and Graduates***

**[Women's Studies 101. Introduction to Women's Studies: Changing the Subject]**

Catalog Number: 2174

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*Half course (fall term). Hours to be arranged.*

This course will address a range of contemporary issues of concern to feminism. Points of



contact and contention include: reproductive technology, family values, effects of the new global economy on women's status, new nationalisms, sex tourism, politics of sexuality, sexual harassment, affirmative action, clitoridectomy, and tension between western values and "local" cultures. As a way to demonstrate a diversity of feminist perspectives, guest lecturers will address these questions from a variety of positions within—and without—feminism.

*Note:* Expected to be given in 2000–01.

### **Women's Studies 102 (formerly Women's Studies 10c). Gender and Inequality**

Catalog Number: 2516

*Juliet Schor*

*Half course (fall term). M., W., at 1, and a one-hour section to be arranged. EXAM GROUP: 6*  
Draws on material from economics and other social sciences to analyze gender relations from an economic and social perspective. Topics include: the gender gap in pay; occupational segregation and the glass ceiling; the "second shift" of household work; motherhood; conflicts between work and family; the feminization of poverty; teen pregnancy, and the feminist critique of the State.

*Note:* Expected to be omitted in 2000–01.

### **[Women's Studies 110a. Bodies and Boundaries]**

Catalog Number: 1730

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*Half course (spring term). Hours to be arranged.*

The history of the body, with particular attention to gender, from the late Middle Ages to the present. Focusing on Europe and the United States, the course examines the ways in which the body has been used to construct boundaries: between male and female, between human and non-human, between races, between the "normal" and the "abnormal," and between the healthy and the sick. It considers the techniques used to enforce those boundaries, from social discipline to surgery to eugenics, and the ways in which those boundaries were continually challenged by people who refused to accept them or whose bodies refused to conform.

*Note:* Expected to be given in 2000–01.

### **Women's Studies 110b (formerly Women's Studies 10b). Current Problems in Feminist Theory**

Catalog Number: 5590

*Alice Jardine*

*Half course (fall term). Tu., 2–4, and a one-hour section to be arranged. EXAM GROUP: 16, 17*  
A consideration of debates surrounding gender as a category of knowledge in the arts and humanities, particularly with regard to fiction, film and TV, literary criticism, philosophy, psychoanalysis, and cultural theory. Provides historical frameworks for understanding what is at stake in current controversies surrounding essentialism, ethnocentrism, and "the straight mind." Explores recent struggles over both the intellectual histories and future potentials of poststructuralism, postmodernism, and avant-garde practice.

*Note:* Expected to be omitted in 2000–01.

### **Women's Studies 110c. Gender and Work**

Catalog Number: 7763



*Pauline E. Peters*

*Half course (spring term). M., 2–4 and a one-hour section to be arranged. EXAM GROUP: 7, 8*  
At the heart of all societies are work, sex, and gender. The sexual division of labor is a cross-cultural constant but the specific definitions of what constitutes work and who is labelled a worker vary. What accounts for some activities being defined as "work" and why are some considered appropriate for women and others for men? Through cases selected cross-culturally and over time, we consider not only how work is gender-specific but how gendered work (re)produces gender differences and other social distinctions. The course examines reproductive, domestic/family, wage/market, factory, and sex work; the social construction of "female" and "male" through different types of "work"; the interactions of work, gender, and class; gendered work, global economy and modernity.

**Women's Studies 132. Shop 'Til You Drop: Gender and Class in Consumer Society**

Catalog Number: 8799

*Juliet Schor*

*Half course (spring term). M., W., at 1 and a one-hour section to be arranged. EXAM GROUP: 6*

Everyday life is increasingly characterized by shopping, buying, and consuming. This course will examine the historical origins of consumer societies; the ways in which advertising, media, and marketing affect culture and society; what motivates consumers; the role of consumption in the forging of identities; the globalization of consumer capitalism; the debate over "consumer society" and its alternatives. Throughout, particular emphasis will be paid to the ways in which consumption is structured by gender and class. Readings include Bourdieu, Bordo, Veblen, Galbraith, Friedan, Peiss, de Grazia.

**Women's Studies 133. The Queer Novel: Narrative and Sexuality**

Catalog Number: 0630

*Linda Schlossberg*

*Half course (spring term). Tu., Th., at 1, and a one hour section to be arranged. EXAM GROUP: 15*

Is the novel a queer genre? How has the cultural reception of the novel been influenced by changing ideas about gender and sexuality? This course will look at seemingly "queer" novels from the late 18th, 19th, and 20th centuries in their historical and cultural contexts. We will also read selections from contemporary literary criticism and theory. Readings from Diderot, Austen, Forester, Woolf, Wilde, James, Conrad, Baldwin, Lorde, and others.

*Note:* Expected to be omitted in 2000–01.

**[Women's Studies 134. Women's Writing and Film in Latin America and the Caribbean]**

Catalog Number: 9230

*Bradley S. Epps*

*Half course (fall term). Hours to be arranged.*

This course focuses on 20th-century narrative fiction, testimony, theater, and film by women from a variety of linguistic cultures (French, Spanish, Creole, Quiche, 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";



kinship, ritual, and religion; lesbianism, heterosexuality, and bisexuality; authoritarianism and democracy. May include works by Diamela Eltit, Clarice Lispector, Jamaica Kincaid, and others. Critical and theoretical texts will also be employed. All writings are available in English translations.

*Note:* Expected to be given in 2000–01.

**[Women’s Studies 136. Engendering Hunger: Women, Food, and Culture]**

Catalog Number: 9961

*Linda Schlossberg*

*Half course (spring term). Hours to be arranged.*

This course explores the vexed relationship between women’s bodies, “disorderly eating,” and the formation of gendered subjectivity from historical, psychological, socioeconomic, and literary perspectives. Topics include the narrativization of eating disorders, hunger-striking, etiquette, the relationship between sexuality, race, and “deviant” appetites, the erotics of food, and men’s body image. Readings in history, biography, psychology, cultural theory, literature, and the visual arts, including Foucault, Ellman, Dickinson, Esquivel, Morrison, Chernin, Chicago, Orbach, Freud, and others.

*Note:* Expected to be given in 2000–01.

**[Women’s Studies 152 (formerly Women’s Studies 126). Women and Science: Conference Course]**

Catalog Number: 5621 Enrollment: Limited to 15

*Katharine Park*

*Half course (fall term). Hours to be arranged.*

A survey of the position of women in the study of nature and in scientific writing about sex and gender in Europe and the United States from the Scientific Revolution to the 20th century. Principle themes of the course include: changing conceptions of women’s nature and the female body; opportunities for and barriers to the participation of women in science as students, teachers, producers, translators and consumers of scientific work; and the gendering of nature and scientific authority.

*Note:* Expected to be given in 2001–02.

**[Women’s Studies 153 (formerly Women’s Studies 122). Gender, Race, and Psychoanalysis]**

Catalog Number: 7950 Enrollment: Limited to 15.

*Lynne B. Layton (Medical School)*

*Half course (fall term). Hours to be arranged.*

Freud knocked his head against the riddle of femininity, but as Sander Gilman has argued, his answer to the riddle may have derived less from science than from his own anxieties about race. Following Freud, many mainstream psychoanalysts continue to propose a universal schema for the development of proper masculine and feminine gender identities. Analytic theorists at the other end of the spectrum, however, argue that gender is a defensive construct that imposes a unitary identity on a fluid experience. Increasingly, psychoanalysis is called upon to account for the fact that genders are lived in connection with race, class, and sexuality. In this course, we will look at psychoanalytic descriptions, prescriptions, and resistances to gender identity and



desire.

*Note:* Expected to be given in 2000–01.

**[Women’s Studies 154 (formerly Women’s Studies 111). I Like Ike, But I Love Lucy: Women, Popular Culture, and the 1950s: Conference Course]**

Catalog Number: 6855 Enrollment: Limited to 15

*Alice Jardine*

*Half course (spring term). Hours to be arranged.*

A diagnosis and analysis of this formative decade for the U.S. babyboomer. Taught from a cultural studies perspective, the course will focus on gender politics in print media, film, television, and rock of the early cold war era. Parks, McCarthy, Monroe, Kerouac, and many others.

*Note:* Expected to be given in 2001–02.

**Women’s Studies 155. Women, Girls, and Poverty: Conference Course**

Catalog Number: 9165 Enrollment: Limited to 20

*Elizabeth Dodson*

*Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17*

Using a life-stages approach, this course examines conditions and effects of economic hardship in the lives of women and girls. Themes include daughters’ work in low-income families, adolescent pressures and strengths, early (often) single motherhood, and women’s ongoing development, despite multiple barriers. A conceptualization of an economically segregated society, with the accompanying issues of race, ethnicity, and welfare stigma is integrated throughout. Students co-lead weekly class discussions. Readings by Sidel, Hill Collins, Fine, Dodson, Edin, Luker, Way and others.

**Women’s Studies 156. Feminism and Sexuality**

Catalog Number: 0605 Enrollment: Limited to 20

*Sasha Torres (Johns Hopkins University)*

*Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18*

This course surveys the variety of positions on sexuality — sexual practices, desires and pleasures — that have laid claim to the descriptor “feminist” from the beginning of the second wave to the present. We will consider debates about the location of female pleasure, lesbian sadomasochism, pornography, sex work and heterosexuality. Reading will include the work of Allison, Bright, Califia, Duggan and Hunter, Echols, Ehrenreich, Firestone, Hite, Rubin and Wolf.

**Women’s Studies 157. Gender and Sexuality in Contemporary Performance**

Catalog Number: 0618 Enrollment: Limited to 25

*Holly Hughes*

*Half course (spring term). W., 2–4. EXAM GROUP: 7, 8*

An examination of recent performance pieces, both solo and collaborative including Split Britches, Luis Alfaro, Kate Bornstein, Carmelita Tropicana, Annie Sprinkle, in which sexuality and gender are central themes. Theories of performance, gender and sexuality (Román, Dolan, Solomon) will be studied alongside the performance texts. In a workshop component of the course, students will also create their own short performance pieces.



### *Of Primary Interest*

Courses in women's studies 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, and the Women's Studies program at the Divinity School. Students may be particularly interested in the following courses: the Divinity School: 2434, 2880, 1468, 3455, 3525; the Medical School: Social Medicine 720; the Law School offers courses in family law, employment rights, and adoption, which presuppose a legal background.

[**Afro-American Studies 110. African-American Women's History: Seminar**]

[**Afro-American Studies 124. Constructions of Identity: Seminar**]

[**Afro-American Studies 134. The Literature of Possession: Seminar**]

[\***Afro-American Studies 137z (formerly English 90out). Black Women and Their Fiction**]

[**Afro-American Studies 141 (formerly Anthropology 157). Afro-Atlantic Religions**]

**[Anthropology 138. The Behavioral Biology of Women](#)**

[**Anthropology 139. Power, Knowledge, and People in Sub-Saharan Africa**]

[**Anthropology 147. West African Cultures**]

[**Anthropology 171 (formerly Anthropology 215). Writing "Gender"**]

[**Classical Archaeology 145. The Representation of Women in Ancient Greece**]

**[\\*English 90rt. Sylvia Plath and Anne Sexton](#)**

**[English 147n. Women and the Novel to Jane Austen](#)**

[**Folklore and Mythology 108. Witchcraft**]

[**Folklore and Mythology 113. Women Storytellers in Africa**]

**[French 70b. Introduction to French Literature II: From the Romantics to the Present](#)**

**[French 136. Feminist Literary Criticisms](#)**

**[French 175. Julia Kristeva: Introduction and Conclusions](#)**

**[French 271r. French Literature: Seminar](#)**

[**German 268 (formerly German 168). German Feminism and Women's Literature**]

**[Historical Study A-33. Women, Feminism, and History](#)**

**[History 1360 \(formerly Women's Studies 128\). Gender and Class in Jane Austen's](#)**

**[England: An Interdisciplinary Approach Through History, Literature, and Film](#)**

[**History 1492 (formerly History 1345). Gender and the State in an Era of Mass War: Conference Course**]

[**History 1642a. U.S. Women's History to 1900**]

[**History 1642b. U.S. Women's History, Turn of the Century to the Present**]

**[History 1908. Rethinking Gender in African History: Conference Course](#)**

**[\\*History of Science 147. Science, Sex and Gender: Conference Course](#)**

[\***History of Science 251. Women, Gender, Feminism and the Sciences: Conference Course**]

**[Italian 157 \(formerly Italian 126\). Love, Friendship, and War: The Portrayal of Women in the Renaissance Epic](#)**

[**Italian 189. Passion and Resistance: 20th-Century Italian Women**]

**[Japanese History 117. Religion and Gender in Japanese History: Conference Course](#)**

**[Linguistics 81. Language and Gender](#)**



**\*Literature 125. A Thousand Feminisms**

**Modern Greek C. Advanced Modern Greek: Supervised Readings**

**Psychology 1806. Sex, Gender, and Psychopathology**

**[\*Religion 1477. Pentecostalism]**

**Religion 1490. Feminist Theology as Systematics: A Critical Survey**

**Religion 1600. Reading of Hindu Texts: An Introduction to Hinduism**

**[Sociology 22. Gender and Work]**

**\*Sociology 207. Gender and Sexuality: Seminar**

**[Spanish 135. Writing Women: Language, Culture, and Difference in 20th-Century Spanish Narrative]**

**[Spanish 261. Writing like a Woman in Latin America]**

**[Spanish 268. Telling Limits in American Ethnic Literatures]**

**[\*Visual and Environmental Studies 152ar. Women and Film: Production and Criticism]**

*Of Related Interest*

**Afro-American Studies 11. Topics in Afro-American Literature and Culture**

**Afro-American Studies 118. African-American History from the Slave Trade to 1900**

**[Afro-American Studies 120. African-American Religious History]**

**[Afro-American Studies 125. Philosophical Problems of Race and Racism]**

**[\*Afro-American Studies 132z. Domestic Life in Literature: Seminar]**

**[Afro-American Studies 136z. Comparative African and African-American Drama: the Dramaturgy of Wole Soyinka and August Wilson]**

**Afro-American Studies 187y. Black Cinema as Genre—From Blaxploitation to Quentin Tarantino**

**[Afro-American Studies 191. The Civil Rights Movement: Seminar]**

**Anthropology 110. Introduction to Social Anthropology**

**Anthropology 126. Self and Emotion in Society**

**[Anthropology 141. Society and History in Island Southeast Asia]**

**Anthropology 254. Memory Practices**

**[Anthropology 255. Ethnographic Writing]**

**Celtic 106. Folklore of Ireland and Scotland**

**Celtic 112. Performance and Medieval Celtic Literature**

**[Comparative Literature 168. Literature and Film]**

**Economics 1812. Operation of the Labor Market**

**Economics 1815 (formerly Economics 1015). Social Problems of the American Economy**

**English 193d. Deconstruction and Psychoanalysis**

**Foreign Cultures 60. Individual, Community, and Nation in Vietnam**

**Foreign Cultures 70. Understanding Islam and Contemporary Muslim Societies**

**French 27. French Oral Survival: Le Français parlé**

**French 47. Contemporary French Society at the Turn of the Century**

**[French 161. The Subject in Question]**

**French 175. Julia Kristeva: Introduction and Conclusions**

**General Education 105. The Literature of Social Reflection**

**German 148. Freud**

**[German 268 (formerly German 168). German Feminism and Women's Literature]**



**[Government 1208. The Politics of Islamic Resurgence]**

**Government 1341. Civil Liberties**

**[\*Government 2066. Political Theory and the Public Sphere]**

**Historical Study A-14. Tradition and Transformation in East Asian Civilization: Japan**

**Historical Study B-35. The French Revolution: Causes, Processes, and Consequences**

**History 71a. America: Colonial Times to the Civil War**

**History 71b. Modern America, 1865 to Present**

**[History 1602. The Frontier in Early America]**

**History 1624 (formerly History 1620). Jacksonian America, 1815–1845**

**History 1634. U.S. Race and Ethnicity, 1865-1965: Conference Course**

**[History 1639. The Formation of Modern American Culture: Conference Course]**

**\*History 1643. The Confederacy: Conference Course**

**History 1649. The American West: 1780-1930**

**[History 1663. The 1950s: Conference Course]**

**[History of Art and Architecture 17 (formerly Fine Arts 17e). Introduction to 19th-Century European Art]**

**History of Science 130. Modern Biology**

**History of Science 175. Madness and Medicine: Themes in the History of Psychiatry**

**[History of Science 176. Evolution and the Mind: Conference Course]**

**[History of Science 177. Stories Under the Skin: The Mind-Body Connection in Modern Medicine]**

**Japanese Literature 115 (formerly Japanese Literature 208). Narrative Strategies in Modern Japanese Fiction**

**[\*Literature 118. Benjamin and the Frankfurt School]**

**[Literature 119. The Holocaust and Problems of Representation]**

**Literature and Arts A-16. Lives Ruined by Literature: The Theme of Reading in the Novel**

**[Literature and Arts A-24. Foundational Fictions: The National Romances of Latin America]**

**Literature and Arts A-40. Shakespeare, The Early Plays**

**[Literature and Arts A-41. Shakespeare, The Later Plays]**

**Literature and Arts C-14. The Concept of the Hero in Greek Civilization**

**[Literature and Arts C-43. The Medieval Court]**

**[Literature and Arts C-49. Cultural China in Contemporary Perspectives]**

**[Literature and Arts C-55. Surrealism: Avant-Garde Art and Politics between the Wars]**

**[Literature and Arts C-65. Repression and Expression: Literature and Art in *Fin-de-siècle* Germany and Austria]**

**Medieval Latin 117. Fairy Tales and their Tellers in the Middle Ages**

**Modern Hebrew 130r (formerly Modern Hebrew 130a). Advanced Modern Hebrew:**

**Contemporary Israeli Culture**

**Moral Reasoning 22. Justice**

**[Moral Reasoning 50. The Public and the Private in Politics, Morality, and Law]**

**Portuguese 38. Images of Brazil: Contemporary Brazilian Cinema**

**Psychology 17. Personality Psychology**

**[\*Psychology 1559. Interpersonal Influence and Communication: Seminar]**

**\*Psychology 2500a (formerly \*Psychology 2560). Advanced Social Psychology I: Intra-Individual Processes**



**[Religion 45. Martyrs, Mystics, and Heretics: Alternative Christianities]**

**Religion 1026. Contrast and Harmony in Conceptions of God**

**[\*Religion 1481. Current Topics in Latin American Religion and Theology: Advanced Seminar]**

**Religion 1489. Contemporary Interpretations of Jesus**

**[Religion 1525. Radical Movements in Modern America]**

**Religion 1530r. Religious Values and Cultural Conflict: Seminar**

**[\*Religion 1585. Islam in South Asia: Seminar]**

**[Religion 1725. Buddhism and Social Change: Seminar]**

**Science B-29. Human Behavioral Biology**

**Slavic 130a. Survey of Czech Literature from the Beginnings to 1774**

**[Slavic 130b. Survey of Czech Literature from 1774 to the Present]**

**Social Analysis 38. Social Stratification**

**[Sociology 60. Race and Ethnic Relations]**

**Sociology 162. Medical Sociology**

**[Sociology 184a. The Origins of Freedom]**

**\*Sociology 188. Lines that Divide: Race, Class, Gender, and Ethnicity in the Ethnographic Tradition: Conference Course**

**Spanish 194. Latino Cultures**

**[Spanish 268. Telling Limits in American Ethnic Literatures]**

**\*Visual and Environmental Studies 155ar. Film Architectures**

**\*Visual and Environmental Studies 155br. A Cultural Study of Film: Mapping and Fashioning Space**

**\*Visual and Environmental Studies 159ar. The Moving Image: Film and Visual Representation**